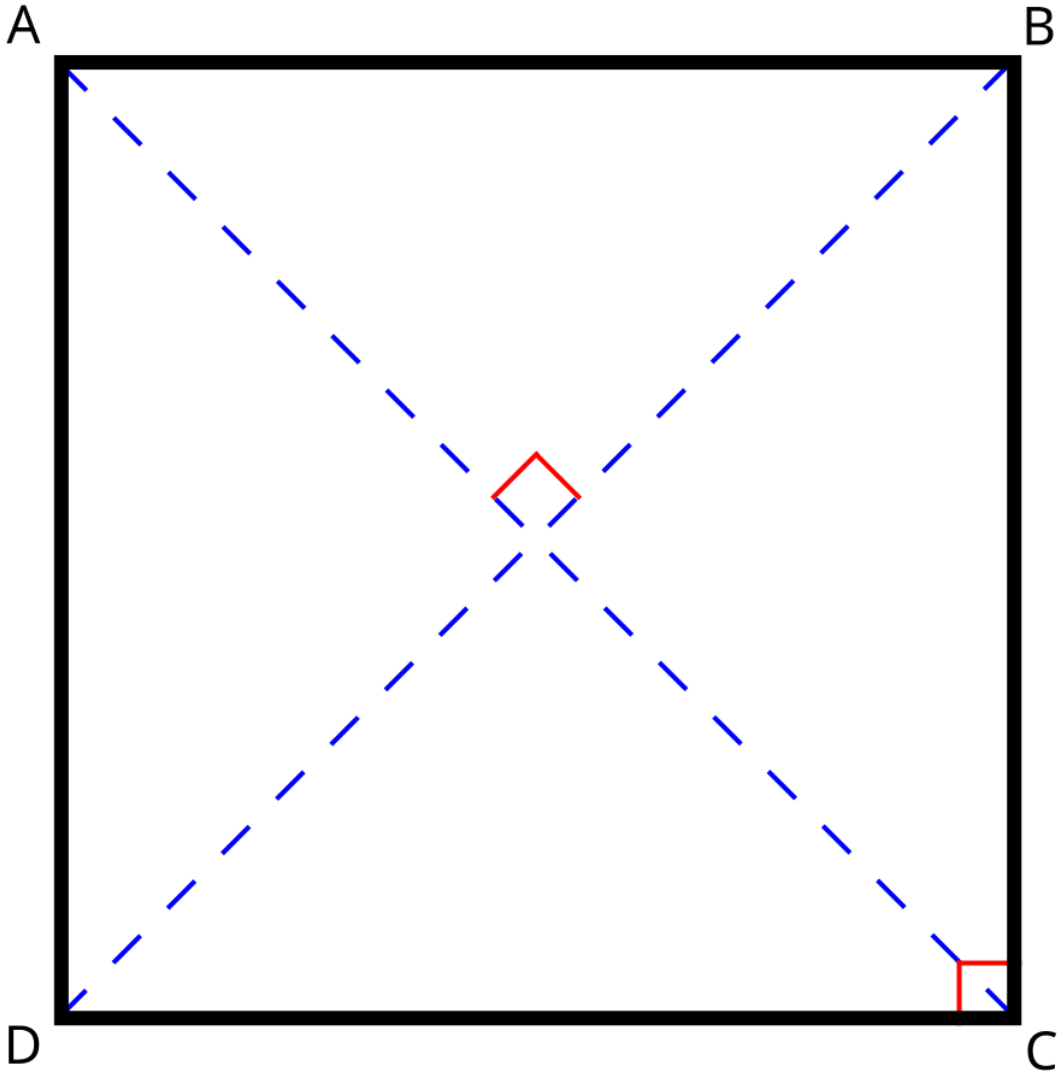

oe-python-template Documentation

Release 0.17.10

Helmut Hoffer von Ankershoffen

Apr 29, 2025

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Copier template to scaffold Python projects compliant with best practices and modern tooling.

This Copier[1] template enables you to quickly generate (scaffold) a Python package with fully functioning build and test automation:

1. Projects generated from this template can be easily updated[2] to benefit from improvements and new features of the template.
2. During project generation, you can flexibly configure naming of the Python distribution, import package, main author, GitHub repository, organization, and many other aspects to match your specific requirements (see copier.yml[3] for all available options).

[1] https://copier.readthedocs.io/en/stable/
[2] https://copier.readthedocs.io/en/stable/updating/
[3] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/copier.yml

CHAPTER

ONE

DEVELOPMENT INFRASTRUCTURE

Projects generated with this template come with a comprehensive development toolchain and quality assurance framework that supports the entire software development lifecycle - from coding and testing to documentation, release management, and compliance auditing. This infrastructure automates routine tasks, enforces code quality standards, and streamlines the path to production:

1. Linting with Ruff[4]
2. Static type checking with mypy[5]
3. Complete set of pre-commit[6] hooks including detect-secrets[7] and pygrep[8]
4. Unit and E2E testing with pytest[9] including parallel test execution
5. Matrix testing in multiple environments with nox[10]
6. Test coverage reported with Codecov[11] and published as release artifact
7. CI/CD pipeline automated with GitHub Actions[12] with parallel and reusable workflows, including scheduled testing, release automation, and multiple reporting channels and formats
8. CI/CD pipeline can be run locally with act[13]
9. Code quality and security checks with SonarQube[14] and GitHub CodeQL[15]
10. Dependency monitoring and vulnerability scanning with pip-audit[16], trivy[17], Renovate[18], and GitHub Dependabot[19]
11. Error monitoring and profiling with Sentry[20] (optional)
12. Logging and metrics with Logfire[21] (optional)
13. Prepared for uptime monitoring and scheduled tests with betterstack[22] or alternatives
14. Licenses of dependencies extracted with pip-licenses[23], matched with allow list, and published as release artifacts in CSV and JSON format for further compliance checks

[4] https://github.com/astral-sh/ruff
[5] https://mypy.readthedocs.io/en/stable/
[6] https://pre-commit.com/
[7] https://github.com/Yelp/detect-secrets
[8] https://github.com/pre-commit/pygrep-hooks
[9] https://docs.pytest.org/en/stable/
[10] https://nox.thea.codes/en/stable/
[11] https://codecov.io/
[12] https://github.com/features/actions
[13] https://github.com/nektos/act
[14] https://www.sonarsource.com/products/sonarcloud
[15] https://codeql.github.com/
[16] https://pypi.org/project/pip-audit/
[17] https://trivy.dev/latest/
[18] https://github.com/renovatebot/renovate
[19] https://docs.github.com/en/code-security/getting-started/dependabot-quickstart-guide
[20] https://sentry.io/
[21] https://logfire.dev/
[22] https://betterstack.com/
[23] https://pypi.org/project/pip-licenses/

15. Generation of attributions from extracted licenses
16. Software Bill of Materials (SBOM) generated in CycloneDX[24] and SPDX[25] formats with cyclonedx-python[26] resp. trivy[27], published as release artifacts
17. Version and release management with bump-my-version[28]
18. Changelog and release notes generated with git-cliff[29]
19. Documentation generated with Sphinx[30] including reference documentation for the library, CLI, and API
20. Documentation published to Read The Docs[31] including generation of PDF and single page HTML versions
21. Documentation including dynamic badges, setup instructions, contribution guide and security policy
22. Interactive OpenAPI specification with Swagger[32]
23. Python package published to PyPI[33]
24. Multi-stage build of fat (all extras) and slim (no extras) multi-arch (arm64 and amd64) Docker images, running non-root within immutable container
25. Docker images published to Docker.io[34] and GitHub Container Registry[35] with artifact attestations[36]
26. One-click development environments with Dev Containers[37] and GitHub Codespaces[38]
27. Settings for use with VSCode[39]
28. Settings and custom instructions for use with GitHub Copilot[40]
29. API deployed as serverless function to Vercel[41] (optional)

[24] https://cyclonedx.org/
[25] https://spdx.dev/
[26] https://github.com/CycloneDX/cyclonedx-python
[27] https://trivy.dev/latest/
[28] https://callowayproject.github.io/bump-my-version/
[29] https://git-cliff.org/
[30] https://www.sphinx-doc.org/en/master/
[31] https://readthedocs.org/
[32] https://swagger.io/
[33] https://pypi.org/
[34] https://hub.docker.com/
[35] https://docs.github.com/en/packages/working-with-a-github-packages-registry/working-with-the-container-registry
[36] https://docs.github.com/en/actions/security-for-github-actions/using-artifact-attestations/using-artifact-attestations-to-establish-provenance-for-builds
[37] https://code.visualstudio.com/docs/devcontainers/containers
[38] https://github.com/features/codespaces
[39] https://code.visualstudio.com/
[40] https://docs.github.com/en/copilot/customizing-copilot/adding-repository-custom-instructions-for-github-copilot
[41] https://vercel.com/

CHAPTER

TWO

MULTI-HEAD APPLICATION FEATURES

Beyond development tooling, projects generated with this template include the code, documentation, and configuration of a fully functioning service and multi-head application. This reference implementation serves as a starting point for your own business logic with modern patterns and enterprise practices already in place:

1. Usable as library with "Hello" module exposing a simple service that can say "Hello, world!" and echo utterances.
2. Comfortable command-line interface (CLI) with Typer[42]
3. Versioned webservice API with FastAPI[43]
4. Cross-platform Graphical User Interface (GUI) with NiceGUI[44] running in a browser or native window
5. Interactive Jupyter notebook[45] and reactive Marimo notebook[46]
6. Simple Web UI with Streamlit[47]
7. Modular architecture auto-discovers and registers services, CLI commands, API routes and GUI pages exposed by domain modules
8. Validation and settings management with pydantic[48]
9. System module providing aggregate health and info to the runtime, compiled settings, and further info provided by domain modules
10. Health and Info available via command, webservice API (info passsword protected) and GUI
11. Flexible logging and instrumentation, including support for Sentry[49] and Logfire[50]
12. Hello service demonstrates use of custom real time metrics collected via Logfire
13. Configuration to run the CLI and API in a Docker container including setup for Docker Compose[51]

Explore here[52] for what's generated out of the box. While this template comes with multiple application interfaces ("heads") - Library, CLI, API, GUI, notebooks, and Streamlit; running native and within Docker - they're included to demonstrate capabilities and provide implementation patterns. You're expected to use this as a foundation, keeping only the interfaces relevant to your project's requirements. The modular architecture makes it easy to:

1. Remove unnecessary interfaces to simplify your codebase
2. Adapt existing interfaces to your specific use cases

[42] https://typer.tiangolo.com/
[43] https://fastapi.tiangolo.com/
[44] https://nicegui.io/
[45] https://jupyter.org/
[46] https://marimo.io/
[47] https://streamlit.io/
[48] https://docs.pydantic.dev/
[49] https://sentry.io/
[50] https://logfire.dev/
[51] https://docs.docker.com/get-started/docker-concepts/the-basics/what-is-docker-compose/
[52] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template-example

3. Focus on your core business logic without reimplementing infrastructure
4. Add new interfaces while leveraging the existing patterns

2.1 Generate a new project

To generate, build and release a fully functioning project in a few minutes, follow these 5 steps:

Step 1: Execute the following command to install or update tooling.

```
# Install Homebrew, uv package manager, copier and further dev tools
curl -LsSf https://raw.githubusercontent.com/helmut-hoffer-von-ankershoffen/oe-python-
↪template/HEAD/install.sh | sh
```

Step 2: Create a repository on GitHub[53], clone to your local machine, and change into it's directory.

Step 3: Execute the following command to generate a new project based on this template.

```
# Ensure to stand in your freshly created git repository before executing this command
copier copy --trust gh:helmut-hoffer-von-ankershoffen/oe-python-template .
```

Step 4: Execute the following commands to push your initial commit to GitHub.

```
git add .
git commit -m "chore: Initial commit"
git push
```

Check the Actions tab[54] of your GitHub repository: The CI/CD workflow of your project is already running!

The workflow will fail at the SonarQube step, as this external service is not yet configured for our new repository. We will configure SonarQube and other services in the next step!

Notes:

1. Check out this manual[55] on how to set up signed commits

Step 5: Follow the instructions to wire up external services such as CloudCov, SonarQube Cloud, Read The Docs, Docker.io, and Streamlit Community Cloud.

Step 6: Release the first version of your project

```
make bump
```

Notes:

1. You can remove the above sections - from "Scaffolding" to this notes - post having successfully generated your project.
2. The following sections refer to the dummy application and service generated into the `tests` and `src` folder by this template. Use the documentation and code as inspiration, adapt to your business logic, or remove and start documenting and coding from scratch.

2.2 Overview

Adding OE Python Template to your project as a dependency is easy. See below for usage examples.

```
uv add oe-python-template            # add dependency to your project
```

[53] https://docs.github.com/en/repositories/creating-and-managing-repositories/creating-a-new-repository
[54] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/actions
[55] https://docs.github.com/en/authentication/managing-commit-signature-verification/telling-git-about-your-signing-key

If you don't have uv installed follow these instructions[56]. If you still prefer pip over the modern and fast package manager uv[57], you can install the library like this:

```
pip install oe-python-template        # add dependency to your project
```

Executing the command line interface (CLI) in an isolated Python environment is just as easy:

```
uvx oe-python-template hello world               # prints "Hello, world! [..]"
uvx oe-python-template hello echo "Lorem Ipsum"  # echos "Lorem Ipsum"
uvx oe-python-template gui                       # opens the graphical user interface (GUI)
uvx --with "oe-python-template[examples]" oe-python-template gui  # opens the graphical user␣
↪interface (GUI) with support for scientific computing
uvx oe-python-template system serve              # serves web API
uvx oe-python-template system serve --port=4711  # serves web API on port 4711
uvx oe-python-template system openapi            # serves web API on port 4711
```

Notes:

1. The API is versioned, mounted at `/api/v1` resp. `/api/v2`
2. While serving the web API go to http://127.0.0.1:8000/api/v1/hello-world to see the respons of the `hello-world` operation.
3. Interactive documentation is provided at http://127.0.0.1:8000/api/docs

The CLI provides extensive help:

```
uvx oe-python-template --help                # all CLI commands
uvx oe-python-template hello world --help    # help for specific command
uvx oe-python-template hello echo --help
uvx oe-python-template gui --help
uvx oe-python-template system serve --help
uvx oe-python-template system openapi --help
```

2.3 Operational Excellence

This project is designed with operational excellence in mind, using modern Python tooling and practices. It includes:

1. Various examples demonstrating usage: a. Simple Python script[58] b. Streamlit web application[59] deployed on Streamlit Community Cloud[60] c. Jupyter[61] and Marimo[62] notebook
2. Complete reference documentation for the library[63], for the CLI[64] and for the API[65] on Read the Docs
3. Transparent test coverage[66] including unit and E2E tests (reported on Codecov)
4. Matrix tested with multiple python versions[67] to ensure compatibility (powered by Nox[68])
5. Compliant with modern linting and formatting standards (powered by Ruff[69])

[56] https://docs.astral.sh/uv/getting-started/installation/
[57] https://github.com/astral-sh/uv
[58] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/examples/script.py
[59] https://oe-python-template.streamlit.app/
[60] https://streamlit.io/cloud
[61] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/examples/notebook.ipynb
[62] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/examples/notebook.py
[63] https://oe-python-template.readthedocs.io/en/latest/lib_reference.html
[64] https://oe-python-template.readthedocs.io/en/latest/cli_reference.html
[65] https://oe-python-template.readthedocs.io/en/latest/api_reference_v1.html
[66] https://app.codecov.io/gh/helmut-hoffer-von-ankershoffen/oe-python-template
[67] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/noxfile.py
[68] https://nox.thea.codes/en/stable/
[69] https://github.com/astral-sh/ruff

6. Up-to-date dependencies (monitored by Renovate[70] and Dependabot[71])
7. A-grade code quality[72] in security, maintainability, and reliability with low technical debt and codesmell (verified by SonarQube)
8. Additional code security checks using CodeQL[73]
9. Security Policy
10. License compliant with the Open Source Initiative (OSI)
11. 1-liner for installation and execution of command line interface (CLI) via uv(x)[74] or Docker[75]
12. Setup for developing inside a devcontainer[76] included (supports VSCode and GitHub Codespaces)

2.4 Usage Examples

The following examples run from source - clone this repository using `git clone git@github.com:helmut-hoffer-von-ankershoffen/oe-python-template.git`.

[70] https://github.com/renovatebot/renovate
[71] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/security/dependabot
[72] https://sonarcloud.io/summary/new_code?id=helmut-hoffer-von-ankershoffen_oe-python-template
[73] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/security/code-scanning
[74] https://github.com/astral-sh/uv
[75] https://hub.docker.com/r/helmuthva/oe-python-template/tags
[76] https://code.visualstudio.com/docs/devcontainers/containers

CHAPTER

THREE

MINIMAL PYTHON SCRIPT:

```python
"""Example script demonstrating the usage of the service provided by OE Python Template."""

from rich.console import Console

from oe_python_template.hello import Service

console = Console()

message = Service.get_hello_world()
console.print(f"[blue]{message}[/blue]")
```

Show script code[77] - Read the reference documentation[78]

[77] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/examples/script.py
[78] https://oe-python-template.readthedocs.io/en/latest/lib_reference.html

CHAPTER

FOUR

STREAMLIT APP

Serve the functionality provided by OE Python Template in the web by easily integrating the service into a Streamlit application.

Try it out![79] - Show the code[80]

… or serve the app locally .. code-block:: shell

> uv sync –all-extras # Install streamlit dependency part of the examples extra, see pyproject.toml uv run streamlit run examples/streamlit.py # Serve on localhost:8501, opens browser

[79] https://oe-python-template.streamlit.app
[80] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/examples/streamlit.py

CHAPTER

FIVE

VERCEL SERVERLESS FUNCTION

Serve the API as a serverless function on Vercel[81]

5.1 Notebooks

[81] https://oe-python-template.vercel.app/

CHAPTER

SIX

JUPYTER

Show the Jupyter code[82]

... or run within VSCode

```
uv sync --all-extras                                    # Install dependencies required for␣
↪examples such as Juypyter kernel, see pyproject.toml
```

Install the Jupyter extension for VSCode[83]

Click on `examples/notebook.ipynb` in VSCode and run it.

[82] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/examples/notebook.ipynb
[83] https://marketplace.visualstudio.com/items?itemName=ms-toolsai.jupyter

CHAPTER

SEVEN

MARIMO

Show the marimo code[84]

Execute the notebook as a WASM based web app

```
uv sync --all-extras                                    # Install ipykernel dependency part of␣
↪the examples extra, see pyproject.toml
uv run marimo run examples/notebook.py --watch          # Serve on localhost:2718, opens browser
```

or edit interactively in your browser

```
uv sync --all-extras                                    # Install ipykernel dependency part of␣
↪the examples extra, see pyproject.toml
uv run marimo edit examples/notebook.py --watch         # Edit on localhost:2718, opens browser
```

… or edit interactively within VSCode

Install the Marimo extension for VSCode[85]

Click on `examples/notebook.py` in VSCode and click on the caret next to the Run icon above the code (looks like a pencil) > “Start in marimo editor” (edit).

… or without prior cloning of the repository

```
uvx marimo run https://raw.githubusercontent.com/helmut-hoffer-von-ankershoffen/oe-python-
↪template/refs/heads/main/examples/notebook.py
```

7.1 Command Line Interface (CLI)

[84] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/examples/notebook.py
[85] https://marketplace.visualstudio.com/items?itemName=marimo-team.vscode-marimo

CHAPTER

EIGHT

RUN WITH UVX[86]

Show available commands:

```
uvx oe-python-template --help
```

Execute commands:

```
uvx oe-python-template hello world
uvx oe-python-template hello echo --help
uvx oe-python-template hello echo "Lorem"
uvx oe-python-template hello echo "Lorem" --json
uvx oe-python-template gui
uvx --with "oe-python-template[examples]" oe-python-template gui  # opens the graphical user␣
↪interface (GUI) with support for scientific computing
uvx oe-python-template system info
uvx oe-python-template system health
uvx oe-python-template system openapi
uvx oe-python-template system openapi --output-format=json
uvx oe-python-template system serve
```

See the reference documentation of the CLI[87] for detailed documentation of all CLI commands and options.

[86] https://docs.astral.sh/uv/guides/tools/
[87] https://oe-python-template.readthedocs.io/en/latest/cli_reference.html

CHAPTER

NINE

ENVIRONMENT

The service loads environment variables including support for .env files.

```
cp .env.example .env              # copy example file
echo "THE_VAR=MY_VALUE" > .env    # overwrite with your values
```

Now run the usage examples again.

CHAPTER

TEN

RUN WITH DOCKER

You can as well run the CLI within Docker.

```
docker run helmuthva/oe-python-template --help
docker run helmuthva/oe-python-template hello world
docker run helmuthva/oe-python-template hello echo --help
docker run helmuthva/oe-python-template hello echo "Lorem"
docker run helmuthva/oe-python-template hello echo "Lorem" --json
docker run helmuthva/oe-python-template system info
docker run helmuthva/oe-python-template system health
docker run helmuthva/oe-python-template system openapi
docker run helmuthva/oe-python-template system openapi --output-format=json
docker run helmuthva/oe-python-template system serve
```

The default Docker image includes all extras. Additionally a slim image is provided, with no extras. Run as follows

```
docker run helmuthva/oe-python-template-slim --help
docker run helmuthva/oe-python-template-slim hello world
```

You can pass environment variables as parameters:

```
docker run --env OE_PYTHON_TEMPLATE_HELLO_LANGUAGE=de_DE helmuthva/oe-python-template hello␣
↪world
docker run --env OE_PYTHON_TEMPLATE_HELLO_LANGUAGE=en_US helmuthva/oe-python-template hello␣
↪world
```

A docker compose stack is provided. Clone this repository using `git clone git@github.com:helmut-hoffer-von-ankershoffen/oe-python-template.git` and enter the repository folder.

The .env is passed through from the host to the Docker container.

```
docker compose run --remove-orphans oe-python-template --help
docker compose run --remove-orphans oe-python-template hello world
docker compose run --remove-orphans oe-python-template hello echo --help
docker compose run --remove-orphans oe-python-template hello echo "Lorem"
docker compose run --remove-orphans oe-python-template hello echo "Lorem" --json
docker compose run --remove-orphans oe-python-template system info
docker compose run --remove-orphans oe-python-template system health
docker compose run --remove-orphans oe-python-template system openapi
docker compose run --remove-orphans oe-python-template system openapi --output-format=json
echo "Running OE Python Template's API container as a daemon ..."
docker compose up -d
echo "Waiting for the API server to start ..."
sleep 5
echo "Checking health of v1 API ..."
curl http://127.0.0.1:8000/api/v1/healthz
```

(continues on next page)

(continued from previous page)

```
echo ""
echo "Saying hello world with v1 API ..."
curl http://127.0.0.1:8000/api/v1/hello/world
echo ""
echo "Swagger docs of v1 API ..."
curl http://127.0.0.1:8000/api/v1/docs
echo ""
echo "Checking health of v2 API ..."
curl http://127.0.0.1:8000/api/v2/healthz
echo ""
echo "Saying hello world with v1 API ..."
curl http://127.0.0.1:8000/api/v2/hello/world
echo ""
echo "Swagger docs of v2 API ..."
curl http://127.0.0.1:8000/api/v2/docs
echo ""
echo "Shutting down the API container ..."
docker compose down
```

- See the reference documentation of the API[88] for detailed documentation of all API operations and parameters.

10.1 Extra: Lorem Ipsum

Dolor sit amet, consectetur adipiscing elit. Donec a diam lectus. Sed sit amet ipsum mauris. Maecenas congue ligula ac quam.

[88] https://oe-python-template.readthedocs.io/en/latest/api_reference_v1.html

CHAPTER

ELEVEN

API V2 EXPLORER

Visit the Interactive API Documentation[89]

[89] https://oe-python-template.readthedocs.io/en/latest/api_v2.html

CHAPTER

TWELVE

API V1 EXPLORER

Visit the Interactive API Documentation[90]

[90] https://oe-python-template.readthedocs.io/en/latest/api_v2.html

CHAPTER

THIRTEEN

CLI REFERENCE

Command Line Interface of OE Python Template

Usage:

```
$ oe-python-template [OPTIONS] COMMAND [ARGS]...
```

Options:

- `--install-completion`: Install completion for the current shell.
- `--show-completion`: Show completion for the current shell, to copy it or customize the installation.
- `--help`: Show this message and exit.

🧠 OE Python Template v0.17.4 - built with love in Berlin 🐻

Commands:

- `gui`: Open graphical user interface (GUI).
- `notebook`: Run notebook server.
- `hello`: Hello commands
- `system`: Determine health, info and further…

13.1 `oe-python-template gui`

Open graphical user interface (GUI).

Usage:

```
$ oe-python-template gui [OPTIONS]
```

Options:

- `--help`: Show this message and exit.

13.2 `oe-python-template notebook`

Run notebook server.

Usage:

```
$ oe-python-template notebook [OPTIONS]
```

Options:

- *–host TEXT*: Host to bind the server to [default: 127.0.0.1]
- *–port INTEGER*: Port to bind the server to [default: 8001]

- `--help`: Show this message and exit.

13.3 oe-python-template hello

Hello commands

Usage:

```
$ oe-python-template hello [OPTIONS] COMMAND [ARGS]...
```

Options:

- `--help`: Show this message and exit.

Commands:

- `echo`: Echo the text.
- `world`: Print hello world message and what's in…

13.3.1 oe-python-template hello echo

Echo the text.

Args: text (str): The text to echo. json (bool): Print as JSON.

Usage:

```
$ oe-python-template hello echo [OPTIONS] [TEXT]
```

Arguments:

- *[TEXT]*: The text to echo [default: Lorem ipsum dolor sit amet, consectetur adipiscing elit.]

Options:

- *–json / –no-json*: Print as JSON [default: no-json]
- `--help`: Show this message and exit.

13.3.2 oe-python-template hello world

Print hello world message and what's in the environment variable THE_VAR.

Usage:

```
$ oe-python-template hello world [OPTIONS]
```

Options:

- `--help`: Show this message and exit.

13.4 oe-python-template system

Determine health, info and further utillities.

Usage:

```
$ oe-python-template system [OPTIONS] COMMAND [ARGS]...
```

Options:

- `--help`: Show this message and exit.

Commands:

- `health`: Determine and print system health.
- `info`: Determine and print system info.
- `serve`: Start the web server, hosting the…
- `openapi`: Dump the OpenAPI specification.
- `fail`: Fail by dividing by zero.
- `sleep`: Sleep given for given number of seconds.

13.4.1 `oe-python-template system health`

Determine and print system health.

Args: output_format (OutputFormat): Output format (JSON or YAML).

Usage:

```
$ oe-python-template system health [OPTIONS]
```

Options:

- *–output-format [yaml|json]*: Output format [default: json]
- `--help`: Show this message and exit.

13.4.2 `oe-python-template system info`

Determine and print system info.

Args: include_environ (bool): Include environment variables. filter_secrets (bool): Filter secrets from the output. output_format (OutputFormat): Output format (JSON or YAML).

Usage:

```
$ oe-python-template system info [OPTIONS]
```

Options:

- *–include-environ / –no-include-environ*: Include environment variables [default: no-include-environ]
- *–filter-secrets / –no-filter-secrets*: Filter secrets [default: filter-secrets]
- *–output-format [yaml|json]*: Output format [default: json]
- `--help`: Show this message and exit.

13.4.3 `oe-python-template system serve`

Start the web server, hosting the graphical web application and/or webservice API.

Args: app (bool): Enable web application. api (bool): Enable webservice API. host (str): Host to bind the server to. port (int): Port to bind the server to. watch (bool): Enable auto-reload on changes of source code. open_browser (bool): Open app in browser after starting the server.

Usage:

```
$ oe-python-template system serve [OPTIONS]
```

Options:

- *–app / –no-app*: Enable web application [default: app]
- *–api / –no-api*: Enable webservice API [default: api]
- *–host TEXT*: Host to bind the server to [default: 127.0.0.1]

- *–port INTEGER*: Port to bind the server to [default: 8000]
- *–watch / –no-watch*: Enable auto-reload on changes of source code [default: watch]
- *–open-browser / –no-open-browser*: Open app in browser after starting the server [default: no-open-browser]
- `--help`: Show this message and exit.

13.4.4 `oe-python-template system openapi`

Dump the OpenAPI specification.

Args: api_version (str): API version to dump. output_format (OutputFormat): Output format (JSON or YAML).

Raises: typer.Exit: If an invalid API version is provided.

Usage:

```
$ oe-python-template system openapi [OPTIONS]
```

Options:

- *–api-version TEXT*: API Version. Available: v1, v2 [default: v1]
- *–output-format [yaml|json]*: Output format [default: json]
- `--help`: Show this message and exit.

13.4.5 `oe-python-template system fail`

Fail by dividing by zero.

- Used to validate error handling and instrumentation.

Usage:

```
$ oe-python-template system fail [OPTIONS]
```

Options:

- `--help`: Show this message and exit.

13.4.6 `oe-python-template system sleep`

Sleep given for given number of seconds.

Args: seconds (int): Number of seconds to sleep.

- Used to validate performance profiling.

Usage:

```
$ oe-python-template system sleep [OPTIONS]
```

Options:

- *–seconds INTEGER*: Duration in seconds [default: 2]
- `--help`: Show this message and exit.

CHAPTER

FOURTEEN

LIBRARY REFERENCE

Hello module.

pydantic model oe_python_template.hello.**Echo**

Response model for echo endpoint.

Fields

- text (str)

field text: str [Required]

The echo

Constraints

- **min_length** = 1

class oe_python_template.hello.**PageBuilder**

static register_pages() → None

Register pages.

class oe_python_template.hello.**Service**

Service of the hello module.

static echo(*utterance:* Utterance *(page 35)*) → *Echo* (page 33)

Loudly echo utterance.

Parameters
utterance (*Utterance* (page 35)) – The utterance to echo.

Returns
The loudly echoed utterance.

Return type
Echo (page 33)

Raises
ValueError – If the utterance is empty or contains only whitespace.

get_hello_world() → str

Get a hello world message.

Returns
Hello world message.

Return type
str

health() → *Health* (page 38)

Determine health of hello service.

Returns
The health of the service.

Return type
Health (page 38)

info() → dict[str, Any]

Determine info of this service.

Returns
The info of this service.

Return type
dict[str,Any]

pydantic settings oe_python_template.hello.**Settings**

Settings.


```
{
   "title": "Settings",
   "description": "Settings.",
   "type": "object",
   "properties": {
      "language": {
         "$ref": "#/$defs/Language",
         "default": "en_US",
         "description": "Language to use for output - defaults to US english."
      },
      "token": {
         "anyOf": [
            {
               "format": "password",
               "type": "string",
               "writeOnly": true
            },
            {
               "type": "null"
            }
         ],
         "default": null,
         "description": "Secret token of Hello module.",
         "title": "Token"
      }
   },
   "$defs": {
      "Language": {
         "description": "Supported languages.",
         "enum": [
            "de_DE",
            "en_US"
         ],
         "title": "Language",
         "type": "string"
      }
   }
}
```


Config

- **extra**: *str = ignore*
- **env_prefix**: *str = OE_PYTHON_TEMPLATE_HELLO_*

- **env_file**: *list = [PosixPath('/home/docs/.oe_python_template/.env'), PosixPath('/home/docs/.oe_python_template/.env.local'), PosixPath('.env'), PosixPath('.env.local')]*
- **env_file_encoding**: *str = utf-8*

Fields

- `language (oe_python_template.hello._settings.Language)`
- `token (pydantic.types.SecretStr | None)`

field language: ')] = Language.US_ENGLISH

Language to use for output - defaults to US english.

field token: Annotated[SecretStr | None, BeforeValidator(func=strip_to_none_before_validator, json_schema_input_type=PydanticUndefined), PlainSerializer(func=serialize_sensitive_info, return_type=str, when_used=always), FieldInfo(annotation=NoneType, required=False, default=None, description='Secret token of Hello module.')] = None

Secret token of Hello module.

Constraints

- **func** = <function OpaqueSettings.serialize_sensitive_info at 0x7e7062dfd120>
- **json_schema_input_type** = PydanticUndefined
- **return_type** = <class 'str'>
- **when_used** = always

pydantic model oe_python_template.hello.**Utterance**

Model representing a text utterance.

Fields

- `text (str)`

field text: str [Required]

The utterance to echo back

Constraints

- **min_length** = 1

System module.

class oe_python_template.system.**PageBuilder**

static register_pages() → None

Register pages.

class oe_python_template.system.**Service**

System service.

static div_by_zero() → float

Divide by zero to trigger an error.

- **This function is used to validate error handling and instrumentation** in the system.

Returns

This function will raise a ZeroDivisionError before returning.

Return type
float

health() → *Health* (page 38)

Determine aggregate health of the system.

- **Health exposed by implementations of BaseService in other** modules is automatically included into the health tree.
- See utils/_health.py:Health for an explanation of the health tree.

Returns
The aggregate health of the system.

Return type
Health (page 38)

static info(*include_environ: bool = False*, *filter_secrets: bool = True*) → dict[str, Any]

Get info about configuration of service.

- Runtime information is automatically compiled.
- **Settings are automatically aggregated from all implementations of** Pydantic BaseSettings in this package.
- **Info exposed by implementations of BaseService in other modules is** automatically included into the info dict.

Returns
Service configuration.

Return type
dict[str, Any]

is_token_valid(*token: str*) → bool

Check if the presented token is valid.

Returns
True if the token is valid, False otherwise.

Return type
bool

static sleep(*seconds: int*) → None

Sleep for a given number of seconds.

- This function is used to validate performance profiling in the system.

Parameters
seconds (int) – Number of seconds to sleep.

pydantic settings oe_python_template.system.**Settings**

Settings.


```
{
   "title": "Settings",
   "description": "Settings.",
   "type": "object",
   "properties": {
      "token": {
         "anyOf": [
            {
```


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```
            "format": "password",
            "type": "string",
            "writeOnly": true
         },
         {
            "type": "null"
         }
      ],
      "default": null,
      "description": "Secret token to present when performing sensitive operations␣
↪such as retrieving info via webservice API",
      "title": "Token"
   }
  }
}
```

Config

- **extra**: *str = ignore*
- **env_prefix**: *str = OE_PYTHON_TEMPLATE_SYSTEM_*
- **env_file**: *list = [PosixPath('/home/docs/.oe_python_template/.env'), PosixPath('/home/docs/.oe_python_template/.env.local'), PosixPath('.env'), PosixPath('.env.local')]*
- **env_file_encoding**: *str = utf-8*

Fields

- `token (pydantic.types.SecretStr | None)`

field token: Annotated[SecretStr | None, PlainSerializer(func=serialize_sensitive_info, return_type=str, when_used=always), FieldInfo(annotation=NoneType, required=False, default=None, description='Secret token to present when performing sensitive operations such as retrieving info via webservice API')] = None

Secret token to present when performing sensitive operations such as retrieving info via webservice API

Constraints

- **func** = <function OpaqueSettings.serialize_sensitive_info at 0x7e7062dfd120>
- **return_type** = <class 'str'>
- **when_used** = always

Utilities module.

class oe_python_template.utils.**BasePageBuilder**

Base class for all page builders.

abstractmethod static register_pages() → None

Register pages.

class oe_python_template.utils.**BaseService**(*settings_class: type[T] | None = None*)

Base class for services.

abstractmethod health() → *Health* (page 38)

Get health of this service. Override in subclass.

abstractmethod info() → dict[str, Any]

Get info of this service. Override in subclass.

key() → str

Return the module name of the instance.

class oe_python_template.utils.**GUILocalFilePicker**(*directory: str*, ** (Keyword-only parameters separator (PEP 3102))*, *upper_limit: str | EllipsisType | None = Ellipsis*, *multiple: bool = False*, *show_hidden_files: bool = False*)

Local File Picker dialog class that lazy-loads NiceGUI dependencies.

static __new__(*cls*, *directory: str*, ***, *upper_limit: str | EllipsisType | None = Ellipsis*, *multiple: bool = False*, *show_hidden_files: bool = False*) → *GUILocalFilePicker* (page 38)

Create a new instance with lazy-loaded dependencies.

Parameters

- **directory** – The directory to start in.
- **upper_limit** – The directory to stop at. None for no limit, default is same as starting directory.
- **multiple** – Whether to allow multiple files to be selected.
- **show_hidden_files** – Whether to show hidden files.

Returns

An instance of the dialog with lazy-loaded dependencies.

pydantic model oe_python_template.utils.**Health**

Represents the health status of a service with optional components and failure reasons.

- A health object can have child components, i.e. health forms a tree.
- **Any node in the tree can set itself to DOWN. In this case the node is required** to set the reason attribute. If reason is not set when DOWN, automatic model validation of the tree will fail.
- **DOWN'ness is propagated to parent health objects. I.e. the health of a parent** node is automatically set to DOWN if any of its child components are DOWN. The child components leading to this will be listed in the reason.
- **The root of the health tree is computed in the system module. The health of other** modules is automatically picked up by the system module.

Fields

- components (dict[str, oe_python_template.utils._health.Health])
- reason (str | None)
- status (oe_python_template.utils._health._HealthStatus)

Validators

- validate_health_state » all fields

field components: dict[str, *Health* (page 38)] [Optional]

Validated by

- validate_health_state

field reason: str | None = None

Validated by

- validate_health_state

field status: _HealthStatus [Required]

Validated by

- validate_health_state

Code

alias of _HealthStatus

compute_health_from_components() → Self

Recursively compute health status from components.

- If health is already DOWN, it remains DOWN with its original reason.
- **If health is UP but any component is DOWN, health becomes DOWN with** a reason listing all failed components.

Returns

The updated health instance with computed status.

Return type

Self

validator validate_health_state » *all fields*

Validate the health state and ensure consistency.

- Compute overall health based on component health
- Ensure UP status has no associated reason
- Ensure DOWN status always has a reason

Returns

The validated model instance with correct health status.

Return type

Self

Raises

ValueError – If validation fails due to inconsistency.

pydantic settings oe_python_template.utils.**LogSettings**

Settings for configuring logging behavior.


```
{
   "title": "LogSettings",
   "description": "Settings for configuring logging behavior.",
   "type": "object",
   "properties": {
      "level": {
         "default": "INFO",
         "description": "Logging level",
         "enum": [
            "CRITICAL",
            "ERROR",
            "WARNING",
            "INFO",
            "DEBUG"
```


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```
            ],
            "title": "Level",
            "type": "string"
        },
        "file_enabled": {
            "default": false,
            "description": "Enable logging to file",
            "title": "File Enabled",
            "type": "boolean"
        },
        "file_name": {
            "default": "oe_python_template.log",
            "description": "Name of the log file",
            "title": "File Name",
            "type": "string"
        },
        "console_enabled": {
            "default": false,
            "description": "Enable logging to console",
            "title": "Console Enabled",
            "type": "boolean"
        }
    }
}
```


Config

- **extra**: *str = ignore*
- **env_prefix**: *str = OE_PYTHON_TEMPLATE_LOG_*
- **env_file**: *list = [PosixPath('/home/docs/.oe_python_template/.env'), PosixPath('/home/docs/.oe_python_template/.env.local'), PosixPath('.env'), PosixPath('.env.local')]*
- **env_file_encoding**: *str = utf-8*

Fields

- `console_enabled (bool)`
- `file_enabled (bool)`
- `file_name (str)`
- `level (Literal['CRITICAL', 'ERROR', 'WARNING', 'INFO', 'DEBUG'])`

field console_enabled: Annotated[bool, FieldInfo(annotation=NoneType, required=False, default=False, description='Enable logging to console')] = False

Enable logging to console

field file_enabled: Annotated[bool, FieldInfo(annotation=NoneType, required=False, default=False, description='Enable logging to file')] = False

Enable logging to file

field file_name: Annotated[str, AfterValidator(func=_validate_file_name), FieldInfo(annotation=NoneType, required=False, default='oe_python_template.log', description='Name of the log file')] = 'oe_python_template.log'

Name of the log file

Constraints

- **func** = <function _validate_file_name at 0x7e7062dfcae0>

field level: Annotated[Literal['CRITICAL', 'ERROR', 'WARNING', 'INFO', 'DEBUG'], FieldInfo(annotation=NoneType, required=False, default='INFO', description='Logging level')] = 'INFO'

Logging level

pydantic settings oe_python_template.utils.**LogfireSettings**

Configuration settings for Logfire integration.


```
{
   "title": "LogfireSettings",
   "description": "Configuration settings for Logfire integration.",
   "type": "object",
   "properties": {
      "token": {
         "anyOf": [
            {
               "format": "password",
               "type": "string",
               "writeOnly": true
            },
            {
               "type": "null"
            }
         ],
         "default": null,
         "description": "Logfire token. Leave empty to disable logfire.",
         "examples": [
            "YOUR_TOKEN"
         ],
         "title": "Token"
      },
      "instrument_system_metrics": {
         "default": false,
         "description": "Enable system metrics instrumentation",
         "title": "Instrument System Metrics",
         "type": "boolean"
      }
   }
}
```


Config

- **extra**: *str = ignore*
- **env_prefix**: *str = OE_PYTHON_TEMPLATE_LOGFIRE_*
- **env_file**: *list = [PosixPath('/home/docs/.oe_python_template/.env'), PosixPath('/home/docs/.oe_python_template/.env.local'), PosixPath('.env'), PosixPath('.env.local')]*
- **env_file_encoding**: *str = utf-8*

Fields

- `instrument_system_metrics (bool)`
- `token (pydantic.types.SecretStr | None)`

field instrument_system_metrics: Annotated[bool, FieldInfo(annotation=NoneType, required=False, default=False, description='Enable system metrics instrumentation')] = False

Enable system metrics instrumentation

field token: Annotated[SecretStr | None, BeforeValidator(func=strip_to_none_before_validator, json_schema_input_type=PydanticUndefined), PlainSerializer(func=serialize_sensitive_info, return_type=str, when_used=always), FieldInfo(annotation=NoneType, required=False, default=None, description='Logfire token. Leave empty to disable logfire.', examples=['YOUR_TOKEN'])] = None

Logfire token. Leave empty to disable logfire.

Constraints

- **func** = <function OpaqueSettings.serialize_sensitive_info at 0x7e7062dfd120>
- **json_schema_input_type** = PydanticUndefined
- **return_type** = <class 'str'>
- **when_used** = always

pydantic settings oe_python_template.utils.**OpaqueSettings**

```
{
   "title": "OpaqueSettings",
   "type": "object",
   "properties": {},
   "additionalProperties": false
}
```

static serialize_sensitive_info(*input_value: SecretStr*, *info: FieldSerializationInfo*) → str | None

pydantic model oe_python_template.utils.**ProcessInfo**

Information about the current process.

Fields

- parent (oe_python_template.utils._process.ParentProcessInfo)
- pid (int)
- project_root (str)

field parent: ParentProcessInfo [Required]

field pid: int [Required]

field project_root: str [Required]

pydantic settings oe_python_template.utils.**SentrySettings**

Configuration settings for Sentry integration.

```
{
   "title": "SentrySettings",
   "description": "Configuration settings for Sentry integration.",
   "type": "object",
   "properties": {
      "dsn": {
         "anyOf": [
```

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```
            {
               "format": "password",
               "type": "string",
               "writeOnly": true
            },
            {
               "type": "null"
            }
         ],
         "default": null,
         "description": "Sentry DSN",
         "examples": [
            "https://SECRET@SECRET.ingest.de.sentry.io/SECRET"
         ],
         "title": "Dsn"
      },
      "debug": {
         "default": false,
         "description": "Debug (https://docs.sentry.io/platforms/python/configuration/
↪options/)",
         "title": "Debug",
         "type": "boolean"
      },
      "send_default_pii": {
         "default": false,
         "description": "Send default personal identifiable information (https://docs.
↪sentry.io/platforms/python/configuration/options/)",
         "title": "Send Default Pii",
         "type": "boolean"
      },
      "max_breadcrumbs": {
         "default": 50,
         "description": "Max breadcrumbs (https://docs.sentry.io/platforms/python/
↪configuration/options/#max_breadcrumbs)",
         "minimum": 0,
         "title": "Max Breadcrumbs",
         "type": "integer"
      },
      "sample_rate": {
         "default": 1.0,
         "description": "Sample Rate (https://docs.sentry.io/platforms/python/
↪configuration/sampling/#sampling-error-events)",
         "minimum": 0.0,
         "title": "Sample Rate",
         "type": "number"
      },
      "traces_sample_rate": {
         "default": 1.0,
         "description": "Traces Sample Rate (https://docs.sentry.io/platforms/python/
↪configuration/sampling/#configuring-the-transaction-sample-rate)",
         "minimum": 0.0,
         "title": "Traces Sample Rate",
         "type": "number"
      },
      "profiles_sample_rate": {
         "default": 1.0,
```


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```
        "description": "Traces Sample Rate (https://docs.sentry.io/platforms/python/
↪tracing/#configure)",
        "minimum": 0.0,
        "title": "Profiles Sample Rate",
        "type": "number"
      }
   }
}
```

Config

- **extra**: *str = ignore*
- **env_prefix**: *str = OE_PYTHON_TEMPLATE_SENTRY_*
- **env_file**: *list = [PosixPath('/home/docs/.oe_python_template/.env'), PosixPath('/home/docs/.oe_python_template/.env.local'), PosixPath('.env'), PosixPath('.env.local')]*
- **env_file_encoding**: *str = utf-8*

Fields

- `debug (bool)`
- `dsn (pydantic.types.SecretStr | None)`
- `max_breadcrumbs (int)`
- `profiles_sample_rate (float)`
- `sample_rate (float)`
- `send_default_pii (bool)`
- `traces_sample_rate (float)`

field debug: Annotated[bool, FieldInfo(annotation=NoneType, required=False, default=False, description='Debug (https://docs.sentry.io/platforms/python/configuration/options/)')] = False

Debug (https://docs.sentry.io/platforms/python/configuration/options/)

field dsn: Annotated[SecretStr | None, BeforeValidator(func=strip_to_none_before_validator, json_schema_input_type=PydanticUndefined), AfterValidator(func=_validate_https_dsn), PlainSerializer(func=serialize_sensitive_info, return_type=str, when_used=always), FieldInfo(annotation=NoneType, required=False, default=None, description='Sentry DSN', examples=['https://SECRET@SECRET.ingest.de.sentry.io/SECRET'])] = None

Sentry DSN

Constraints

- **func** = <function OpaqueSettings.serialize_sensitive_info at 0x7e7062dfd120>
- **json_schema_input_type** = PydanticUndefined
- **return_type** = <class 'str'>
- **when_used** = always

field max_breadcrumbs: Annotated[int, FieldInfo(annotation=NoneType, required=False, default=50, description='Max breadcrumbs (https://docs.sentry.io/platforms/python/configuration/options/#max_breadcrumbs)', metadata=[Ge(ge=0)])] = 50

Max breadcrumbs (https://docs.sentry.io/platforms/python/configuration/options/#max_breadcrumbs)

Constraints

- ge = 0

field profiles_sample_rate: Annotated[float, FieldInfo(annotation=NoneType, required=False, default=1.0, description='Traces Sample Rate (https://docs.sentry.io/platforms/python/tracing/#configure)', metadata=[Ge(ge=0.0)])] = 1.0

Traces Sample Rate (https://docs.sentry.io/platforms/python/tracing/#configure)

Constraints

- ge = 0.0

field sample_rate: Annotated[float, FieldInfo(annotation=NoneType, required=False, default=1.0, description='Sample Rate (https://docs.sentry.io/platforms/python/configuration/sampling/#sampling-error-events)', metadata=[Ge(ge=0.0)])] = 1.0

Sample Rate (https://docs.sentry.io/platforms/python/configuration/sampling/#sampling-error-events)

Constraints

- ge = 0.0

field send_default_pii: Annotated[bool, FieldInfo(annotation=NoneType, required=False, default=False, description='Send default personal identifiable information (https://docs.sentry.io/platforms/python/configuration/options/)')] = False

Send default personal identifiable information (https://docs.sentry.io/platforms/python/configuration/options/)

field traces_sample_rate: Annotated[float, FieldInfo(annotation=NoneType, required=False, default=1.0, description='Traces Sample Rate (https://docs.sentry.io/platforms/python/configuration/sampling/#configuring-the-transaction-sample-rate)', metadata=[Ge(ge=0.0)])] = 1.0

Traces Sample Rate (https://docs.sentry.io/platforms/python/configuration/sampling/#configuring-the-transaction-sample-rate)

Constraints

- ge = 0.0

class oe_python_template.utils.**VersionedAPIRouter**(*version: str*, **args*, ***kwargs*)

APIRouter with version attribute.

- **Use this class to create versioned routers for your FastAPI application** that are automatically registered into the FastAPI app.
- **The version attribute is used to identify the version of the API** that the router corresponds to.
- See constants.por versions defined for this system.

static __new__(*cls*, *version: str*, **args*, ***kwargs*) → *VersionedAPIRouter* (page 45)

Create a new instance with lazy-loaded dependencies.

Parameters

- **version** – The API version this router belongs to.
- ***args** – Arguments to pass to the FastAPI APIRouter.
- ****kwargs** – Keyword arguments to pass to the FastAPI APIRouter.

Returns
An instance of VersionedAPIRouter with lazy-loaded dependencies.

classmethod get_instances() → list[*VersionedAPIRouter* (page 45)]

Get all created router instances.

Returns
A list of all router instances created.

oe_python_template.utils.**boot**(*modules_to_instrument: list[str]*) → None

Boot the application.

Parameters

- **modules_to_instrument** (list) – List of modules to be instrumented.
- **repository_url** (str) – URL of the repository.
- **repository_root_path** (str) – The root path of the repository. Default is the root path.

oe_python_template.utils.**create_marimo_app**() → Any

Create a FastAPI app with marimo notebook server.

Returns
FastAPI app with marimo notebook server.

Return type
FastAPI

Raises
ValueError – If the notebook directory does not exist.

oe_python_template.utils.**get_logger**(*name: str | None*) → Logger

Get a logger instance with the given name or project name as default.

Parameters
name (str) – The name for the logger. If None, uses project name.

Returns
Configured logger instance.

Return type
Logger

oe_python_template.utils.**get_process_info**() → *ProcessInfo* (page 42)

Get information about the current process and its parent.

Returns
Object containing process information.

Return type
ProcessInfo (page 42)

oe_python_template.utils.**gui_register_pages**() → None

Register pages.

This function is called by the GUI to register all pages.

oe_python_template.utils.**gui_run**(*native: bool = True*, *show: bool = False*, *host: str | None = None*, *port: int | None = None*, *title: str = 'oe_python_template'*, *icon: str = ''*, *watch: bool = False*, *with_api: bool = False*) → None

Start the GUI.

Parameters

- **native** – Whether to run the GUI in native mode.

- **show** – Whether to show the GUI.
- **host** – Host to run the GUI on.
- **port** – Port to run the GUI on.
- **title** – Title of the GUI.
- **icon** – Icon for the GUI.
- **watch** – Whether to watch for changes and reload the GUI.
- **with_api** – Whether to mount the API.

Raises
ValueError – If with_notebook is True but notebook_path is None, or trying to run native within container.

oe_python_template.utils.**load_settings**(*settings_class: type[T]*) → T

Load settings with error handling and nice formatting.

Parameters
settings_class – The Pydantic settings class to instantiate

Returns
Instance of the settings class

Return type
(T)

Raises
SystemExit – If settings validation fails

oe_python_template.utils.**locate_implementations**(*_class: type[Any]*) → list[Any]

Dynamically discover all instances of some class.

Parameters
_class (type[Any]) – Class to search for.

Returns
List of discovered implementations of the given class.

Return type
list[Any]

oe_python_template.utils.**locate_subclasses**(*_class: type[Any]*) → list[Any]

Dynamically discover all classes that are subclasses of some type.

Parameters
_class (type[Any]) – Parent class of subclasses to search for.

Returns
List of discovered subclasses of the given class.

Return type
list[type[Any]]

oe_python_template.utils.**prepare_cli**(*cli: Typer*, *epilog: str*) → None

Dynamically locate, register and prepare subcommands.

Parameters

- **cli** (typer.Typer) – Typer instance
- **epilog** (str) – Epilog to add

Copier template to scaffold Python projects compliant with best practices and modern tooling.

CHAPTER

FIFTEEN

API V2 REFERENCE

---

title: - system language_tabs: toc_footers: [] includes: [] search: true highlight_theme: darkula

---

```
83773), parent 'python3.13' (pid 83498)
```

components: schemas: Echo: description: Response model for echo endpoint. properties: text: description: The echo examples: - HELLO, WORLD! minLength: 1 title: Text type: string required: - text title: Echo type: object HTTPValidationError: properties: detail: items: $ref: '#/components/schemas/ValidationError' title: Detail type: array title: HTTPValidationError type: object Health: description: "Represents the health status of a service with optional components and failure reasons.nn- A health object can have child components, i.e. health forms a tree.n- Any node in the tree can set itself to DOWN. In this case the node is requiredn to set the reason attribute. If reason is not set when DOWN,n automatic model validation of the tree will fail.n - DOWN'ness is propagated to parent health objects. I.e. the health of a parentn node is automatically set to DOWN if any of its child components are DOWN. Then child components leading to this will be listed in the reason.n - The root of the health tree is computed in the system module. The health of othern modules is automatically picked up by the system module." properties: components: additionalProperties: $ref: '#/components/schemas/Health' title: Components type: object reason: anyOf: - type: string - type: 'null' title: Reason status: $ref: '#/components/schemas/_HealthStatus' required: - status title: Health type: object Utterance: description: Model representing a text utterance. properties: text: description: The utterance to echo back examples: - Hello, world! minLength: 1 title: Text type: string required: - text title: Utterance type: object ValidationError: properties: loc: items: anyOf: - type: string - type: integer title: Location type: array msg: title: Message type: string type: title: Error Type type: string required: - loc - msg - type title: ValidationError type: object _HealthStatus: enum: - UP - DOWN title: _HealthStatus type: string _HelloWorldResponse: description: Response model for hello-world endpoint. properties: message: description: The hello world message examples: - Hello, world! title: Message type: string required: - message title: _HelloWorldResponse type: object info: contact: email: helmuthva@gmail.com name: Helmut Hoffer von Ankershoffen url: https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template termsOfService: https://oe-python-template.readthedocs.io/en/latest/ title: OE Python Template version: 2.0.0 openapi: 3.1.0 paths: /healthz: get: description: "Determine aggregate health of the system.nnThe health is aggregated from all modules makingn up this system including external dependencies.n nThe response is to be interpreted as follows:n- The status can be either UP or DOWN.n- If the service is healthy, the status will be UP.n- If the service is unhealthy, the status will be DOWN and a reason will be provided.n - The response will have a 200 OK status code if the service is healthy,n and a 503 Service Unavailable status code if the service is unhealthy.n nArgs:n service (Service): The service instance.n response (Response): The FastAPI response object.nnReturns:n Health: The health of the system." operationId: health_endpoint_healthz_get responses: '200': content: application/json: schema: $ref: '#/components/schemas/Health' description: Successful Response summary: Health Endpoint tags: - system /hello/echo: post: description: "Echo back the provided utterance.nnArgs:n request (Utterance): The utterance to echo back.nnReturns:n Echo: The echo.nnRaises:n 422 Unprocessable Entity: If utterance is not provided or empty." operationId: echo_v2_hello_echo_post requestBody: content: application/json: schema: $ref: '#/components/schemas/Utterance' required: true responses: '200': content: application/json: schema: $ref: '#/components/schemas/Echo' description: Successful Response '422': content: application/json: schema: $ref: '#/components/schemas/HTTPValidationError'

description: Validation Error summary: Echo V2 tags: - hello /hello/world: get: description: “Return a hello world message.nnReturns:n _HelloWorldResponse: A response containing the hello world message.” operationId: hello_world_hello_world_get responses: ‘200’: content: application/json: schema: $ref: ‘#/components/schemas/_HelloWorldResponse’ description: Successful Response summary: Hello World tags: - hello /system/health: get: description: “Determine aggregate health of the system.nnThe health is aggregated from all modules makingn up this system including external dependencies.n nThe response is to be interpreted as follows:n- The status can be either UP or DOWN.n- If the service is healthy, the status will be UP.n- If the service is unhealthy, the status will be DOWN and a reason will be provided.n - The response will have a 200 OK status code if the service is healthy,n and a 503 Service Unavailable status code if the service is unhealthy.n nArgs:n service (Service): The service instance.n response (Response): The FastAPI response object.nnReturns:n Health: The health of the system.” operationId: health_endpoint_system_health_get responses: ‘200’: content: application/json: schema: $ref: ‘#/components/schemas/Health’ description: Successful Response summary: Health Endpoint tags: - system /system/info: get: description: “Determine aggregate info of the system.nnThe info is aggregated from all modules making up this system.nnIf the token does not match the setting, a 403 Forbidden status code is returned.nnArgs:n service (Service): The service instance.n response (Response): The FastAPI response object.n token (str): Token to present.nnReturns:n dict: The aggregate info of the system.” operationId: info_endpoint_system_info_get parameters: - in: query name: token required: true schema: title: Token type: string responses: ‘200’: content: application/json: schema: additionalProperties: true title: Response Info Endpoint System Info Get type: object description: Successful Response ‘422’: content: application/json: schema: $ref: ‘#/components/schemas/HTTPValidationError’ description: Validation Error summary: Info Endpoint tags: - system

> 2025-04-28 11:50:03 INFO oe_python_template.oe_python_template.utils.boot ★ Booting oe_python_template v0.17.4 (project root /Users/helmut/Code/oe-python-template, pid boot.py:84

CHAPTER

SIXTEEN

API V1 REFERENCE

---

title: - system language_tabs: toc_footers: [] includes: [] search: true highlight_theme: darkula

---

```
83718), parent 'python3.13' (pid 83498)
```

components: schemas: Echo: description: Response model for echo endpoint. properties: text: description: The echo examples: - HELLO, WORLD! minLength: 1 title: Text type: string required: - text title: Echo type: object HTTPValidationError: properties: detail: items: $ref: '#/components/schemas/ValidationError' title: Detail type: array title: HTTPValidationError type: object Health: description: "Represents the health status of a service with optional components and failure reasons.nn- A health object can have child components, i.e. health forms a tree.n- Any node in the tree can set itself to DOWN. In this case the node is requiredn to set the reason attribute. If reason is not set when DOWN,n automatic model validation of the tree will fail.n - DOWN'ness is propagated to parent health objects. I.e. the health of a parentn node is automatically set to DOWN if any of its child components are DOWN. Then child components leading to this will be listed in the reason.n - The root of the health tree is computed in the system module. The health of othern modules is automatically picked up by the system module." properties: components: additionalProperties: $ref: '#/components/schemas/Health' title: Components type: object reason: anyOf: - type: string - type: 'null' title: Reason status: $ref: '#/components/schemas/_HealthStatus' required: - status title: Health type: object ValidationError: properties: loc: items: anyOf: - type: string - type: integer title: Location type: array msg: title: Message type: string type: title: Error Type type: string required: - loc - msg - type title: ValidationError type: object _HealthStatus: enum: - UP - DOWN title: _HealthStatus type: string _HelloWorldResponse: description: Response model for hello-world endpoint. properties: message: description: The hello world message examples: - Hello, world! title: Message type: string required: - message title: _HelloWorldResponse type: object info: contact: email: helmuthva@gmail.com name: Helmut Hoffer von Ankershoffen url: https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template termsOfService: https://oe-python-template.readthedocs.io/en/latest/ title: OE Python Template version: 1.0.0 openapi: 3.1.0 paths: /healthz: get: description: "Determine aggregate health of the system.nnThe health is aggregated from all modules makingn up this system including external dependencies.n nThe response is to be interpreted as follows:n- The status can be either UP or DOWN.n- If the service is healthy, the status will be UP.n- If the service is unhealthy, the status will be DOWN and a reason will be provided.n - The response will have a 200 OK status code if the service is healthy,n and a 503 Service Unavailable status code if the service is unhealthy.n nArgs:n service (Service): The service instance.n response (Response): The FastAPI response object.nnReturns:n Health: The health of the system." operationId: health_endpoint_healthz_get responses: '200': content: application/json: schema: $ref: '#/components/schemas/Health' description: Successful Response summary: Health Endpoint tags: - system /hello/echo/{text}: get: description: "Echo back the provided text.nnArgs:n text (str): The text to echo.nnReturns:n Echo: The echo.nnRaises:n 422 Unprocessable Entity: If text is not provided or empty." operationId: echo_hello_echo___text___get parameters: - in: path name: text required: true schema: title: Text type: string responses: '200': content: application/json: schema: $ref: '#/components/schemas/Echo' description: Successful Response '422': content: application/json: schema: $ref: '#/components/schemas/HTTPValidationError' description: Validation Error summary: Echo tags: - hello /hello/world: get: description: "Return a hello world message.nnReturns:n _HelloWorldResponse: A response containing the hello world message." operationId: hello_world_hello_world_get responses:

‘200’: content: application/json: schema: $ref: ‘#/components/schemas/_HelloWorldResponse’ description: Successful Response summary: Hello World tags: - hello /system/health: get: description: “Determine aggregate health of the system.nnThe health is aggregated from all modules makingn up this system including external dependencies.n nThe response is to be interpreted as follows:n- The status can be either UP or DOWN.n- If the service is healthy, the status will be UP.n- If the service is unhealthy, the status will be DOWN and a reason will be provided.n - The response will have a 200 OK status code if the service is healthy,n and a 503 Service Unavailable status code if the service is unhealthy.n nArgs:n service (Service): The service instance.n response (Response): The FastAPI response object.nnReturns:n Health: The health of the system.” operationId: health_endpoint_system_health_get responses: ‘200’: content: application/json: schema: $ref: ‘#/components/schemas/Health’ description: Successful Response summary: Health Endpoint tags: - system /system/info: get: description: “Determine aggregate info of the system.nnThe info is aggregated from all modules making up this system.nnIf the token does not match the setting, a 403 Forbidden status code is returned.nnArgs:n service (Service): The service instance.n response (Response): The FastAPI response object.n token (str): Token to present.nnReturns:n dict: The aggregate info of the system.” operationId: info_endpoint_system_info_get parameters: - in: query name: token required: true schema: title: Token type: string responses: ‘200’: content: application/json: schema: additionalProperties: true title: Response Info Endpoint System Info Get type: object description: Successful Response ‘422’: content: application/json: schema: $ref: ‘#/components/schemas/HTTPValidationError’ description: Validation Error summary: Info Endpoint tags: - system

> 2025-04-28 11:50:00 INFO oe_python_template.oe_python_template.utils.boot ⭐ Booting oe_python_template v0.17.4 (project root /Users/helmut/Code/oe-python-template, pid boot.py:84

CHAPTER

SEVENTEEN

CONTRIBUTING

Thank you for considering contributing to OE Python Template!

17.1 Setup

Create a fork[91] and clone your fork using `git clone URL_OF_YOUR_CLONE`. Then change into the directory of your local OE Python Template repository with `cd oe-python-template`.

If you are one of the committers of https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template you can directly clone via `git clone git@github.com:helmut-hoffer-von-ankershoffen/oe-python-template.git` and `cd oe-python-template`.

Install or update development dependencies using

```
make install
```

17.2 Directory Layout

```
├── Makefile               # Central entrypoint for build, test, release and deploy
├── noxfile.py             # Noxfile for running tests in multiple python environments and␣
↪other tasks
├── .pre-commit-config.yaml # Definition of hooks run on commits
├── .github/               # GitHub specific files
│   ├── workflows/         # GitHub Actions workflows
│   ├── prompts/           # Custom prompots for GitHub Copilot
│   └── copilot-instructions.md # Insructions for GitHub Copilot
├── .vscode/               # Recommended VSCode settings and extensions
├── .env                   # Environment variables, on .gitignore
├── .env.example           # Example environment variables
src/oe_python_template/  # Source code
├── __init__.py          # Package initialization and
├── utils/*.py           # Infrastructure for logging, sentry, logfire etc.
├── system/*.py          # Module for system management, including service, CLI commands and␣
↪API operations
├── hello/*.py           # Module for "Hello" functionality, including service, CLI commands␣
↪and API operations
├── cli.py               # CLI entrypoint with auto-registration of CLI commands of modules
├── api.py               # Webservice API entrypoint with auto-registration of API operations␣
↪of modules
└── constants.py         # Package specific constants such as major API versions and modules␣
↪to instrument.
tests/oe_python_template/ # Tests
├── **/cli_tests.py      # Verifies the core and module specific CLI commands
```

(continues on next page)

[91] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/fork

(continued from previous page)

```
├── **/api_tests.py      # Verifies the core and module specific API operations
└── fixtures/            # Fixtures and mock data
docs/                    # Documentation
├── partials/*.md        # Partials to compile README.md,  _main partial included in HTML and␣
↪PDF documentation
├── ../README.md         # Compiled README.md shown on GitHub
├── source/*.rst         # reStructuredText files used to generate HTML and PDF documentation
├── ../*.md              # Markdown files shown on GitHub and imported by .rst files
├── source/conf.py       # Sphinx configuration used to generate HTML and PDF documentation
├── build/html/*         # Generated HTML documentation as multiple pages
├── build/singlehtml/index.html # HTML documentation as a single page
└── build/latex/oe-python-template.pdf # PDF manual - generate with make docs pdf
examples/                # Example code demonstrating use of the project
├── streamlit.py         # Streamlit App, deployed in Streamlit Community Cloud
├── notebook.py          # Marimo notebook
├── notebook.ipynb       # Jupyter notebook
└── script.py            # Minimal script
reports/                 # Compliance reports for auditing
├── junit.xml            # Report of test executions run with pytest
├── mypy_junit.xml       # Report of static typing validation run with mypy
├── coverage.xml         # Test coverage in XML format generated by pytest-cov
├── coverage_html        # Report of test coverage in HTML format
├── licenses.csv         # List of dependencies and their license types
├── licenses.json        # .json file with dependencies their license types
├── licenses_grouped.json  # .json file with dependencies grouped by license type
├── vulnerabilities.json # .json file with vulnerabilities detected in dependencies by pip-
↪audit
└── sbom.json            # Software Bill of Materials in OWASP CycloneDX format
```

17.3 Build, Run and Release

17.3.1 Setup project specific development environment

```
make setup
```

Don't forget to configure your `.env` file with the required environment variables.

Notes:

1. .env.example is provided as a template, use `cp .env.example .env` and edit `.env` to create your environment.
2. .env is excluded from version control, so feel free to add secret values.

17.3.2 Build

```
make        # Runs primary build steps, i.e. formatting, linting, testing, building HTML docs␣
↪and distribution, auditing
make help   # Shows help with additional build targets, e.g. to build PDF documentation, bump␣
↪the version to release etc.
```

Notes:

1. Primary build steps defined in `noxfile.py`.
2. Distribution dumped into `dist/`
3. Documentation dumped into `docs/build/html/` and `docs/build/latex/`

4. Audit reports dumped into `reports/`

17.3.3 Run the CLI

```
uv run oe-python-template # shows help
```

17.3.4 Commit and Push your changes

```
git add .
git commit -m "feat(user): added new api endpoint to offboard user"
git push
```

Notes:

1. pre-commit hooks[92] will run automatically on commit to ensure code quality.
2. We use the conventional commits format - see the code style guide for the mandatory commit message format.

17.3.5 Publish Release

```
make bump   # Patch release
make minor  # Patch release
make major  # Patch release
make x.y.z  # Targeted release
```

Notes:

1. Changelog generated automatically
2. Publishes to PyPi, Docker Registries, Read The Docs, Streamlit and Auditing services

17.4 Advanced usage

17.4.1 Developing the GUI

To run the GUI in the browser with hot reloading, use the following command:

```
make gui_watch
```

17.4.2 Running GitHub CI Workflow locally

```
make act
```

Notes:

1. Workflow defined in `.github/workflows/*.yml`
2. ci-cd.yml calls all build steps defined in noxfile.py

17.4.3 Docker

Build and run the Docker image with plain Docker

[92] https://pre-commit.com/

```
# Build from Dockerimage
make docker_build # builds targets all and slim

# Run the CLI
docker run --env THE_VAR=THE_VALUE -t oe-python-template --target all --help    # target with␣
↪all extras
docker run --env THE_VAR=THE_VALUE -t oe-python-template --target slim --help   # slim flavor,
↪ no extras
```

Build and run the Docker image with docker compose:

```
echo "Building the Docker image with docker compose and running CLI..."
docker compose run --build oe-python-template --help
echo "Building the Docker image with docker compose and running API container as a daemon ..."
docker compose up --build -d
echo "Waiting for the API server to start..."
sleep 5
echo "Checking health of v1 API ..."
curl http://127.0.0.1:8000/api/v1/healthz
echo ""
echo "Saying hello world with v1 API ..."
curl http://127.0.0.1:8000/api/v1/hello/world
echo ""
echo "Swagger docs of v1 API ..."
curl http://127.0.0.1:8000/api/v1/docs
echo ""
echo "Checking health of v2 API ..."
curl http://127.0.0.1:8000/api/v2/healthz
echo ""
echo "Saying hello world with v1 API ..."
curl http://127.0.0.1:8000/api/v2/hello/world
echo ""
echo "Swagger docs of v2 API ..."
curl http://127.0.0.1:8000/api/v2/docs
echo ""
echo "Shutting down the API container ..."
docker compose down
```

Notes:

1. The API service is run based on the slim Docker image. Change in compose.yaml if you need the API service to run on the fat image.

17.4.4 Pinning GitHub Actions

```
pinact run  # See https://dev.to/suzukishunsuke/pin-github-actions-to-a-full-length-commit-
↪sha-for-security-2n7p
```

17.5 Update from Template

Update project to latest version of oe-python-template[93] template.

```
make update_from_template
```

[93] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template

17.6 Pull Request Guidelines

1. Before starting to write code read the code style document for mandatory coding style requirements.
2. **Pre-Commit Hooks:** We use pre-commit hooks to ensure code quality. Please install the pre-commit hooks by running `uv run pre-commit install`. This ensure all tests, linting etc. pass locally before you can commit.
3. **Squash Commits:** Before submitting a pull request, please squash your commits into a single commit.
4. **Signed Commits:** Use signed commits[94].
5. **Branch Naming:** Use descriptive branch names like `feature/your-feature` or `fix/issue-number`.
6. **Testing:** Ensure new features have appropriate test coverage.
7. **Documentation:** Update documentation to reflect any changes or new features.

[94] https://docs.github.com/en/authentication/managing-commit-signature-verification/signing-commits

CHAPTER

EIGHTEEN

CODE STYLE

Author: Helmut Hoffer von Ankershoffen (@helmut-hoffer-von-ankershoffen) - Status: Draft - Created: 2025-03-16 - Updated: 2025-03-16

This document describes the code style used in oe-python-template[95] and derivatives. It defines strict requirements to be followed by all contributors - humans and agents - to ensure consistency and readability across the codebase.

18.1 Code

We favor readability and maintainability over cleverness and brevity.

1. We always write code that is easy to read, understand, maintain, test, document, deploy, use, integrate, and extend.
2. We always write code that is efficient and performant, but only if it does not sacrifice readability, maintainability, and testability.
3. We always write code that is secure and does not introduce vulnerabilities.
4. We always write code that is portable and does not introduce platform-specific dependencies.
5. We always write code that is compatible with the Python version indicated in the .python-version file in the root of this repository.

18.2 Naming

We believe that good names are essential for code readability and maintainability. A good name is one that is descriptive, unambiguous, and meaningful. It should convey the purpose and intent of the code it represents.

1. We take extra care to find proper names for all identifiers, including variables, functions, classes, types, tests, modules, and packages. We prefer descriptive names that clearly indicate the purpose and functionality of the code.
2. We avoid using abbreviations, acronyms, and jargon unless they are widely understood and accepted in the context of the code. We prefer full words and phrases that are easy to understand.
3. We avoid using single-letter names, except for loop variables and iterators.
4. We avoid using generic names like `data`, `info`, `temp`, `foo`, `bar`, etc. These names do not convey any meaning and make the code harder to read and understand.
5. We avoid using names that are too long or too short. A good name should be concise but descriptive. It should be long enough to convey the purpose and intent of the code, but not so long that it becomes cumbersome to read and write.

[95] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template

6. We avoid using names that are too similar or too different. A good name should be unique and distinct. It should not be confused with other names in the code. It should not be so different that it becomes hard to remember and recognize.

18.3 Formatting

We use ruff[96] to format Python code

1. The ruff formatter adheres to the Black[97] code style which is PEP 8[98] compliant.
2. The ruff formatter is configured to use a max line length of 120.
3. The ruff formatter is called by the lint session of nox.

Beyond PEP 8 we adhere to the following naming conventions: We use the following conventions for Python code:

1. Class names: `PascalCase` - descriptive nouns that clearly indicate purpose.
2. Function/method names: `snake_case` - verb phrases that describe actions.
3. Variables/attributes: `snake_case` - descriptive nouns/noun phrases.
4. Constants: `UPPER_SNAKE_CASE`.
5. Private members: Prefix with single underscore `_private_attribute`.
6. "True" private members: Prefix with double underscore `__truly_private`.
7. Type variables: `CamelCase` with short, descriptive names (e.g., `T`, `KT`, `VT`).
8. Boolean variables/functions: Prefix with `is_`, `has_`, `should_`, etc.
9. Interface classes: Suffix with `Interface` or `Protocol`.

18.4 Linting and type checking

We use ruff[99] to lint Python code

1. All linting rules are enabled except those explicitly disabled in pyproject.toml
2. The ruff linter is called by the lint session of nox.

We use mypy[100] for static type checking of Python code.

1. mypy is configured to use the `strict` mode in pyproject.toml
2. mypy is called by the lint session of nox.

18.5 Documentation

We use docstrings to document the purpose of modules, classes, types, functions, its parameters and returns

1. We use Google style docstrings with typed Args and Returns.
2. We comment complex code and algorithms to explain their purpose and functionality.
3. We leave references with deep links in code to external documentation, standards, and specifications.

[96] https://github.com/astral-sh/ruff
[97] https://black.readthedocs.io/en/stable/the_black_code_style/current_style.html
[98] https://www.python.org/dev/peps/pep-0008/
[99] https://github.com/astral-sh/ruff
[100] https://mypy.readthedocs.io/

We provide an auto-generated OpenAPI specification and reference documentation.

We generate the final documentation using Sphinx and publish it to readthedocs.

1. Generation of documentation is called by the docs session of nox

18.6 Testing

We use pytest[101] for testing Python code.

1. Tests are defined in the `tests/` directory
2. We use pytest fixtures to set up test data and state
3. We leverage several pytest plugins:
4. `pytest-asyncio` for testing async code
5. `pytest-cov` for coverage reporting
6. `pytest-docker` for integration tests with containers
7. `pytest-env` for environment variable management
8. `pytest-regressions` for regression testing
9. `pytest-xdist` for parallel test execution
10. Test execution is automated through the nox test session which runs across the Python versions indicated in the `pyproject.toml`.

Our test coverage is measured using `pytest-cov` and reported in the CI pipeline.

1. We aim for 100% unit coverage on all code paths, including error handling and edge cases.
2. We fail the CI if unit test coverage drops below 85%.

Apart from unit tests we provide integration tests and end-to-end tests:

1. We smoke test as part of the CI/CD pipeline.
2. We facilitate exploratory testing to ensure comprehensive coverage.
3. We use `pytest-docker` for integration tests with containers.

18.7 Error Handling

We use structured, explicit error handling that enables effective debugging and monitoring:

1. Use specific exception classes instead of generic ones.
2. Include contextual information in exception messages.
3. Log exceptions with appropriate severity levels and context.
4. Gracefully degrade functionality when possible rather than failing completely.
5. Use type hints to catch type errors at compile time rather than runtime.
6. Design errors to be actionable for both users and developers.

18.8 Logging

We log information to help with debugging and monitoring:

1. Use structured logging with consistent fields across all log entries.
2. Include correlation IDs for tracking requests across components.

[101] https://docs.pytest.org/en/stable/

3. Log at appropriate levels (DEBUG, INFO, WARNING, ERROR, CRITICAL).
4. Be mindful of PII and sensitive data in logs, using obfuscation where needed.
5. Consider log volume and performance impact in production environments.

18.9 Performance Considerations

We consider performance from the early design stage, not as an afterthought:

1. Consider algorithmic complexity (Big O notation) for all operations.
2. Prefer lazy evaluation when dealing with large datasets.
3. Use appropriate data structures for specific access patterns.
4. Be mindful of memory usage, especially for long-running processes.
5. Consider profiling for critical paths and potential bottlenecks.
6. Document performance characteristics and assumptions.
7. Write benchmarks for performance-critical code.
8. Design for horizontal scaling from the beginning.
9. Use asynchronous operations appropriately for I/O-bound tasks.
10. Consider caching strategies when appropriate.

18.10 API Design

For both internal and external APIs we follow the principle of least surprise.

1. We maintain backward compatibility whenever possible. If not possible we add a new major version of the API.
2. Implement proper versioning for breaking changes.
3. Document error conditions, return values, and side effects.
4. Design for testability and mockability.
5. Provide sensible defaults while allowing for configuration.
6. Follow RESTful principles for HTTP APIs.
7. Use consistent parameter ordering and naming.
8. Implement proper validation with helpful error messages.
9. Consider rate limiting and circuit breaking for external services.

18.11 Security

We prioritize security at every stage of development to prevent vulnerabilities and protect our users.

1. Follow the principle of least privilege for all operations and access controls.
2. Never store secrets (API keys, passwords, tokens) in code repositories.
3. Use environment variables or dedicated secret management services.
4. Code is checked via `detect-secrets` pre-commit hook to prevent accidental commits of secrets.

We implement proper input validation and sanitization for all external inputs via pydantic[102]:

1. Validate inputs as early as possible in the data flow.

[102] https://pydantic-docs.helpmanual.io/

We handle authentication and authorization correctly:

1. Use industry-standard authentication protocols (OAuth, JWT).
2. Separate authentication from authorization logic.
3. Implement proper session management with secure cookies.
4. Protect against common vulnerabilities:
5. SQL Injection: Use parameterized queries or ORM frameworks.
6. XSS: Apply proper output encoding.
7. CSRF: Implement anti-CSRF tokens for state-changing operations.
8. SSRF: Validate and restrict URL destinations.
9. Command Injection: Avoid direct system command execution where possible.
10. Implement proper error handling that doesn't leak sensitive information.
11. Use secure defaults and fail closed (secure) rather than open (insecure).

We apply the principle of defense in depth:

1. Don't rely on a single security control.
2. Implement multiple layers of protection.
3. Document security considerations in code and design documents.
4. Write security-focused tests:
5. Test for security property violations.
6. Test error cases and edge conditions.
7. Test for resource exhaustion scenarios.
8. Apply proper rate limiting and throttling to prevent abuse.
9. For cryptographic operations:
10. Use established libraries, not custom implementations.
11. Follow current best practices for algorithm selection and key management.
12. Be aware of the limitations of cryptographic primitives.
13. Regularly run security-focused static analysis tools as part of CI/CD:
14. CodeQL analysis (via GitHub Actions)
15. SonarCloud checks for security vulnerabilities

Our security posture is defined in SECURITY.md.

18.12 Dependency Management

We use modern dependency management practices:

1. uv[103] for fast, reliable package installation and environment management
2. Dependency version locking via uv.lock file
3. Regular dependency auditing:
4. Security auditing via `pip-audit`
5. License compliance checks via `pip-licenses`
6. SBOM generation via `cyclonedx-py`

[103] https://github.com/astral-sh/uv

Dependency updates are automated via Dependabot and Renovate to ensure we stay current with security patches.

18.13 Versioning

We use semantic versioning[104] for versioning our releases:

1. MAJOR: Breaking changes
2. MINOR: New features, non-breaking changes
3. PATCH: Bug fixes, non-breaking changes

Our API versioning follows the same principles, with major versions indicated in the URL (e.g., /api/v1/resource) and the full version provided as part of the OpenAPI pecification.

18.14 Conventional Commits

Our commit messages follow conventional commits[105] definition.

1. We use `feat`, `fix`, `chore`, `docs`, `style`, `perf`, `refactor`, `test` prefixes and components in parentheses. E.g. `feat(api): add new endpoint for user registration`.

18.15 Guidance for AI Pair Programming

When generating code with AI assistance:

1. AI-generated code must follow all style guidelines in this document.
2. Always review AI-generated code for correctness, security implications, and adherence to project patterns.
3. Use AI to generate tests alongside implementation code.
4. Request explanations for complex algorithms or patterns in the generated code.
5. Remember that AI should augment, not replace, human judgment about code quality and design decisions.

[104] https://semver.org/
[105] https://www.conventionalcommits.org/en/v1.0.0/

CHAPTER

NINETEEN

RELEASE NOTES

🧠 OE Python Template[106]

19.1 0.17.10[107] - 2025-04-29

19.1.1 ⛰️ Features

- Load_dotenv reorder - (a85d0ad[108])

19.2 0.17.9[109] - 2025-04-29

19.2.1 Enh

- (a) sort settings and environ in system info, (b) load_dotenv from add places - (e3f711b[110])

19.3 0.17.8[111] - 2025-04-28

19.3.1 ⚙️ Miscellaneous Tasks

- *(pywin32)* Add for win32 platform - (4784515[112])

19.4 0.17.7[113] - 2025-04-28

19.4.1 🐛 Bug Fixes

- *(windows)* Don't use pwd - (83cd102[114])

19.5 0.17.6[115] - 2025-04-28

19.5.1 ⚙️ Miscellaneous Tasks

- Betteruptime - (a06e765[116])

[106] https://oe-python-template.readthedocs.io/en/latest/
[107] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.9..0.17.10
[108] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a85d0ad90d34dc55e72b623da9e47a421b8d04c9
[109] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.8..v0.17.9
[110] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e3f711b29a816acf52efb2026d490b2edfbd5be4
[111] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.7..v0.17.8
[112] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/47845156d2822691b425831dc4e31792893f22d0
[113] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.6..v0.17.7
[114] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/83cd10270896503f7f649c6b95c07b7281cb44a2
[115] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.5..v0.17.6
[116] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a06e76548d7cfd49c645bb0590927a0f77c6cff1

19.6 0.17.5[117] - 2025-04-28

19.6.1 📚 Documentation

- Regenerated - (b93daa0[118])

19.7 0.17.4[119] - 2025-04-28

19.7.1 🐛 Bug Fixes

- Missing heartbeat - (3b557bb[120])
- Missing betterstack heartbeat - (e3a2858[121])

19.8 0.17.3[122] - 2025-04-27

19.8.1 ⚙ Miscellaneous Tasks

- Polish - (c5cb0ab[123])

19.9 0.17.2[124] - 2025-04-27

19.9.1 🐛 Bug Fixes

- *(system/gui)* Adapt for test - (64cd076[125])

19.10 0.17.1[126] - 2025-04-27

19.10.1 ⛰ Features

- *(system/gui)* Spinner and background processing - (c299663[127])

19.11 0.17.0[128] - 2025-04-27

19.11.1 ⛰ Features

- *(system/info)* Smaller interval - (35ccbe4[129])

[117] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.4..v0.17.5
[118] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/b93daa0f2119d9031b9235185dbfe5fd65b84ce3
[119] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.3..v0.17.4
[120] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3b557bbfeaa7571652e90d21812bc805cc64b0f1
[121] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e3a2858e79c5ef7e1933443c1790c84801e7621f
[122] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.2..v0.17.3
[123] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c5cb0ab6b50a43c8ceaefa1b35ef4656ea0ad904
[124] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.1..v0.17.2
[125] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/64cd0766cd51b6f169cc97f3bbe4486d5ddbfe29
[126] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.17.0..v0.17.1
[127] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c2996632b5fa3aa4816486b1c9d816db044e3fb2
[128] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.12..v0.17.0
[129] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/35ccbe4ff075678743444d5074bf7c4f00aaa08f

19.12 0.16.12[130] - 2025-04-27

19.12.1 🐛 Bug Fixes

- *(system/info)* Freq - (e3c672e[131])

19.13 0.16.11[132] - 2025-04-27

19.13.1 🐛 Bug Fixes

- Mem - (72ce931[133])

19.14 0.16.10[134] - 2025-04-27

19.14.1 ⛺ Features

- *(system/info)* A bit more diagnostics info for support cases - (c08f1b0[135])

19.15 0.16.9[136] - 2025-04-27

19.15.1 🚜 Refactor

- *(system/info)* Ip - (a2f3e75[137])

19.16 0.16.8[138] - 2025-04-27

19.16.1 🎨 Styling

- Lint - (81eebfb[139])

19.17 0.16.7[140] - 2025-04-27

19.17.1 ⚡ Performance

- Lazy load boottime - (fd62d55[141])

19.18 0.16.6[142] - 2025-04-27

19.18.1 ⚙ Miscellaneous Tasks

- *(cicd)* Fix if vercel disabled - (fa05267[143])

[130] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.11..v0.16.12
[131] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e3c672edad4c263070a476f9dbb9d6f159fd3edd
[132] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.10..v0.16.11
[133] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/72ce9317eb79c313de3316fc679f6d5231e8224f
[134] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.9..v0.16.10
[135] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c08f1b04f4d3ef8265c9b1ddcce7ab7a9cc48ca5
[136] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.8..v0.16.9
[137] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a2f3e75c4d4733c13955da67ee092df135265ef2
[138] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.7..v0.16.8
[139] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/81eebfb19f714df3912ad3bd59c64f5a31ee608d
[140] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.6..v0.16.7
[141] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/fd62d551ef64e412be90a1fcb75635d10b0cfb2d
[142] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.5..v0.16.6
[143] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/fa052671b0a44d517a03c5b7c67db799641cd5fd

19.19 0.16.5[144] - 2025-04-27

19.19.1 ⚙ Miscellaneous Tasks

- Smoke - (0b46ec0[145])

19.20 0.16.4[146] - 2025-04-27

19.20.1 🚜 Refactor

- *(system/info)* Ipv4 addresses and some polish - (830b425[147])

19.20.2 ⚙ Miscellaneous Tasks

- Update - (92626d7[148])

19.21 0.16.3[149] - 2025-04-27

19.21.1 🚜 Refactor

- *(test coverage reporting)* Simplify - (af580f3[150])

19.22 0.16.2[151] - 2025-04-26

19.22.1 ⚙ Miscellaneous Tasks

- Cov - (5d1f765[152])

19.23 0.16.0[153] - 2025-04-26

19.23.1 🎨 Styling

- *(github action)* Ordering - (5d0dbe8[154])

19.24 0.15.26[155] - 2025-04-26

19.24.1 ⚙ Miscellaneous Tasks

- *(github)* Finalize - (fc360f5[156])

[144] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.4..v0.16.5
[145] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0b46ec0137968ed25ce62c3740ab7390e96a6608
[146] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.3..v0.16.4
[147] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/830b425a5523edfcb55ac0e26facf4c55c19c2f9
[148] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/92626d72189c544e73313d9b10f675878621c40b
[149] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.2..v0.16.3
[150] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/af580f3487157c4459b5c41aea179adf27e5b90d
[151] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.16.0..v0.16.2
[152] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5d1f765425321a6f40e1361d3b6aefef1b24eb3a
[153] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.26..v0.16.0
[154] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5d0dbe8496992a837332cfc0c058765ef8152f85
[155] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.25..v0.15.26
[156] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/fc360f5da0b2dfc8dfd67678e64be2a93d47b32f

19.25 0.15.25[157] - 2025-04-26

19.25.1 ⚙ Miscellaneous Tasks

- *(github)* Fix docker - (c9b33a2[158])
- Polish - (12a89ec[159])

19.26 0.15.24[160] - 2025-04-26

19.26.1 ⚙ Miscellaneous Tasks

- *(github)* Triggering - (1ffe26a[161])

19.27 0.15.23[162] - 2025-04-26

19.27.1 🚜 Refactor

- *(github)* Deploy and publish on successful tests only - (4bc2ca4[163])

19.28 0.15.22[164] - 2025-04-26

19.28.1 🚜 Refactor

- *(github)* Deploy and publish on successful tests only - (c8cb184[165])

19.29 0.15.21[166] - 2025-04-26

19.29.1 ⚙ Miscellaneous Tasks

- *(github)* Polish - (216106c[167])

19.30 0.15.20[168] - 2025-04-26

19.30.1 🚜 Refactor

- *(github)* Deploy and publish on successful tests only - (d2dcec0[169])

19.30.2 ⚙ Miscellaneous Tasks

- *(github)* Polish - (395e4c3[170])

[157] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.24..v0.15.25
[158] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c9b33a2a1a19cf9a6e1baf63eef8edefffaa8574
[159] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/12a89ec6dafdbad200002d28fc2dbc640f6db5fb
[160] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.23..v0.15.24
[161] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/1ffe26a4782cd21c3d1402d5b7d363fecff34a91
[162] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.22..v0.15.23
[163] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4bc2ca44c1c6d480d50bf62ef57261f6d5e01d2c
[164] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.21..v0.15.22
[165] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c8cb184f1b58e59a1efee0c5f11ab9539c8a375e
[166] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.20..v0.15.21
[167] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/216106c8e375061bbc54d11d83957cf4cfa19115
[168] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.19..v0.15.20
[169] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d2dcec042143f1f5b10a7bdeea365d36507a1e28
[170] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/395e4c3707c839e567b80022cfadb8dd6cccabee

19.31 0.15.19[171] - 2025-04-26

19.31.1 🎨 Styling

- Lint - (30acb37[172])

19.32 0.15.18[173] - 2025-04-26

19.32.1 ⚙ Miscellaneous Tasks

- *(github action)* Polish test summary - (e8341c2[174])

19.33 0.15.17[175] - 2025-04-26

19.33.1 ⚙ Miscellaneous Tasks

- *(github)* Test summary polish - (b620915[176])
- *(github actions)* Introduce step summaries - (cfcd0f3[177])

19.34 0.15.16[178] - 2025-04-26

19.34.1 🎨 Styling

- *(test)* Code smell removed - (1fad9ef[179])

19.35 0.15.15[180] - 2025-04-25

19.35.1 ⚙ Miscellaneous Tasks

- *(tests)* Segment into regular and long running tests - (9c537c1[181])

19.36 0.15.14[182] - 2025-04-25

19.36.1 📚 Documentation

- *(betterstack)* Explain how to set heartbeat for scheduled test monitoring - (58f508e[183])

[171] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.18..v0.15.19
[172] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/30acb37460bd8fa5ff997ee830675818c61d9aed
[173] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.17..v0.15.18
[174] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e8341c2ccb182821092ba83dbbc4d80b7ab320b5
[175] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.16..v0.15.17
[176] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/b6209153ca606c3966731a8fb374d242fe9fa75c
[177] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/cfcd0f3c419280dab4b3d09b41a73a0ed49a4463
[178] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.15..v0.15.16
[179] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/1fad9efaed18ad0b115373f96b71089af7b80f28
[180] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.14..v0.15.15
[181] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9c537c1ab1e795e5a193db760b494b3aaad7282e
[182] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.13..v0.15.14
[183] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/58f508e33ad0ddcdb37356645384475f00b1b297

19.37 0.15.13[184] - 2025-04-24

19.37.1 Security

- *(h11)* In template - (3ec718a[185])

19.38 0.15.12[186] - 2025-04-24

19.38.1 Security

- *(h11)* Override - (55ab58c[187])

19.39 0.15.11[188] - 2025-04-24

19.39.1 🎨 Styling

- Dry - (20f0b36[189])

19.40 0.15.10[190] - 2025-04-24

19.40.1 🎨 Styling

- Dry - (f14c788[191])

19.41 0.15.9[192] - 2025-04-24

19.41.1 🧪 Testing

- *(utils)* More unit tests - (54e2fc5[193])

19.42 0.15.8[194] - 2025-04-24

19.42.1 🐛 Bug Fixes

- Typo - (313f7d1[195])

19.43 0.15.7[196] - 2025-04-24

19.43.1 🎨 Styling

- Lint - (1d2ba19[197])

[184] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.12..v0.15.13
[185] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3ec718afa3d5f0b27b4e185f2b6473d3812c6914
[186] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.11..v0.15.12
[187] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/55ab58c2dd14a6c56c93fb02ad18981bab75024d
[188] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.10..v0.15.11
[189] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/20f0b36e5985ac1aa4304dd0a1b65dad9c3ee1d1
[190] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.9..v0.15.10
[191] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f14c788fa1628c13caa89f02d4e25fb52788b27c
[192] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.8..v0.15.9
[193] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/54e2fc539874134eb11cd3bb1dd8ef62d2ec4e53
[194] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.7..v0.15.8
[195] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/313f7d15a89d452a0d0e6484acae4c5a8e2b05eb
[196] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.6..v0.15.7
[197] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/1d2ba1949f68a1db441de13354b2d49652d49bc1

19.44 0.15.6[198] - 2025-04-24

19.44.1 🧪 Testing

- *(settings)* Unit tests - (a373205[199])

19.45 0.15.5[200] - 2025-04-24

19.45.1 🐛 Bug Fixes

- Smaller fixes - (a16bdbe[201])

19.45.2 ⚙ Miscellaneous Tasks

- Env adapt - (489eb13[202])

19.46 0.15.4[203] - 2025-04-24

19.46.1 🐛 Bug Fixes

- Env prefix in Dockerfile - (2230c41[204])

19.47 0.15.3[205] - 2025-04-24

19.47.1 ⚙ Miscellaneous Tasks

- Remove duplicate workflow - (88b281d[206])

19.48 0.15.2[207] - 2025-04-24

19.48.1 🐛 Bug Fixes

- Template for test - (55e00dd[208])

19.49 0.15.1[209] - 2025-04-24

19.49.1 ⚙ Miscellaneous Tasks

- Heartbeat - (10597ff[210])

198 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.5..v0.15.6
199 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a3732051b8990d3f3d386ebf4c2a453b302a8794
200 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.4..v0.15.5
201 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a16bdbe2c7e6b8b460d650ef24e2584a681bd27e
202 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/489eb1300857fc93614ca137b5ca7608ca87780d
203 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.3..v0.15.4
204 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2230c414a31bfda9610cca868fbcd69c4a0461e4
205 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.2..v0.15.3
206 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/88b281d66caa93e45aee0c3a77ed28392cf45e70
207 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.1..v0.15.2
208 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/55e00dd1fb9bc69f00c3e814e40eaccee948c522
209 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.15.0..v0.15.1
210 https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/10597ffb094a0ac5222c60c73f848b467d0899b4

19.50 0.15.0[211] - 2025-04-24

19.50.1 🎨 Styling

- Pre-commit - (f078761[212])

19.51 0.14.4[213] - 2025-04-24

19.51.1 🚜 Refactor

- *(performance)* Fastapi lazy loaded - (76565fb[214])
- *(performance)* Introduced profiler, lazy loading nicegui and marimo - (0916218[215])

19.51.2 🧪 Testing

- Adapt - (0e7e6f8[216])

19.52 0.14.3[217] - 2025-04-24

19.52.1 🚜 Refactor

- Shorter betterstack heartbeat env name - (4124546[218])

19.53 0.14.2[219] - 2025-04-24

19.53.1 🎨 Styling

- Formatting in template - (8d1e663[220])

19.53.2 ⚙ Miscellaneous Tasks

- Auto-detect read only env - (f9187cf[221])

19.54 0.14.1[222] - 2025-04-24

19.54.1 🐛 Bug Fixes

- *(docker)* Log file not redirected to stdout, mpi cache warning - (cf7599c[223])

[211] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.14.4..v0.15.0
[212] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f078761d1b332adf88aac8fe4d072c5cafc80e14
[213] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.14.3..v0.14.4
[214] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/76565fbb3a21a5a96dff531a775da98f632ef605
[215] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/09162185185df3daad90dc54e843b56526db000e
[216] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0e7e6f85f9f9f7c95512ffe35420fa73e9083793
[217] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.14.2..v0.14.3
[218] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/41245460157d12f071e2caca37ae8fe85dd310a4
[219] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.14.1..v0.14.2
[220] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8d1e663bb5b6b1035f7127c8a01d0b972f42f7be
[221] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f9187cf420238f27960d8027ccbc969e16d51961
[222] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.14.0..v0.14.1
[223] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/cf7599c61070e8a0704ac385dc2b272326256c29

19.55 0.14.0[224] - 2025-04-24

19.55.1 ⚙ Miscellaneous Tasks

- Heartbeat monitoring of scheduled test - (6e93814[225])

19.56 0.13.16[226] - 2025-04-22

19.56.1 Enh

- .gitignore - (42592d5[227])

19.57 0.13.15[228] - 2025-04-22

19.57.1 ⛰ Features

- *(utils)* Validate log file name setting - (4a2da77[229])

19.58 0.13.14[230] - 2025-04-22

19.58.1 ⛰ Features

- *(utils)* Validate sentry setting - (e17fe74[231])

19.59 0.13.13[232] - 2025-04-22

19.59.1 🎨 Styling

- Test/health - (e8fd68a[233])

19.59.2 ⚙ Miscellaneous Tasks

- Pre-commit - (436b39b[234])

19.60 0.13.12[235] - 2025-04-21

19.60.1 ⚙ Miscellaneous Tasks

- Pre-commit util - (9f9f1ce[236])

[224] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.16..v0.14.0
[225] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/6e93814de5f93da2c85e56056bf951f22d688368
[226] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.15..v0.13.16
[227] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/42592d5a403e542687a94c909056780a021a078b
[228] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.14..v0.13.15
[229] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4a2da77fa9993288b79b993c4925b6089be1f398
[230] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.13..v0.13.14
[231] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e17fe742f51ac35d0721ab27ad8759ea5fcb106e
[232] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.12..v0.13.13
[233] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e8fd68a946724ecd7513908a84bab95e598f70a6
[234] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/436b39bca207e7a18922e711c4c4b4050a26e55d
[235] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.11..v0.13.12
[236] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9f9f1cefd1826d75f25104bd063800c82066df1a

19.61 0.13.11[237] - 2025-04-21

19.61.1 🎨 Styling

- *(test/health)* Dry and use str - (36b8212[238])

19.62 0.13.10[239] - 2025-04-21

19.62.1 🎨 Styling

- Format - (d36a374[240])

19.63 0.13.9[241] - 2025-04-21

19.63.1 🧪 Testing

- Add a few tests - (84cac8f[242])

19.64 0.13.8[243] - 2025-04-21

19.64.1 📚 Documentation

- Polish, closing for eastern - (a7f4817[244])

19.65 0.13.7[245] - 2025-04-21

19.65.1 📚 Documentation

- *(example)* Simplify example script, we have settings, no explicit load_dotenv needed by user - (ee6de36[246])

19.66 0.13.6[247] - 2025-04-21

19.66.1 Enh

- *(docker)* Don't run native in docker - (78f77c8[248])

19.67 0.13.5[249] - 2025-04-21

19.67.1 📚 Documentation

- *(docker)* Polish - (61fdb76[250])

[237] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.10..v0.13.11
[238] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/36b82120558fa2d2ee1559e2dcee4e9a58dc9142
[239] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.9..v0.13.10
[240] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d36a3740ac2a1048a7bf2d4ba7af6b8aaa13d8b1
[241] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.8..v0.13.9
[242] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/84cac8fad6d0a1af974077191301e906135067c6
[243] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.7..v0.13.8
[244] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a7f48174948e1d8cd330083fb4c1e772cdc94e09
[245] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.6..v0.13.7
[246] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ee6de361aa5eef6c04e94b0f0d44f8c0fea4d916
[247] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.5..v0.13.6
[248] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/78f77c8a35a381ee178d8f349b6045e653b7a333
[249] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.4..v0.13.5
[250] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/61fdb7628252d13d75d36f405de1acba6f05ee8a

19.68 0.13.4[251] - 2025-04-21

19.68.1 ⚙ Miscellaneous Tasks

- *(docker)* Fix - (08e4696[252])

19.69 0.13.3[253] - 2025-04-21

19.69.1 📚 Documentation

- *(notebook)* Show how to run notebook with inline dependency directly using uvx marimo - (a456904[254])

19.70 0.13.2[255] - 2025-04-21

19.70.1 ⚙ Miscellaneous Tasks

- *(pre-commit)* Get in order - (c3fcfd2[256])

19.71 0.12.28[257] - 2025-04-21

19.71.1 🚜 Refactor

- *(vercel)* Simplify - (6bb7f47[258])

19.72 0.12.27[259] - 2025-04-21

19.72.1 ⚙ Miscellaneous Tasks

- *(vercel)* Now - (8e3bd23[260])

19.73 0.12.26[261] - 2025-04-21

19.73.1 ⚙ Miscellaneous Tasks

- *(vercel)* Allow to suppress reqs in wheel for vercel - (8fe52a6[262])

19.74 0.12.25[263] - 2025-04-21

19.74.1 🚜 Refactor

- *(vercel)* Simplify requirements.txt - (81bc019[264])

[251] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.3..v0.13.4
[252] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/08e46961233b1553849e3c80b4b4359f948d0d42
[253] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.2..v0.13.3
[254] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a456904b4d45de650289c54896faad62be451790
[255] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.13.0..v0.13.2
[256] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c3fcfd2360681992fea735884ced19b45b5549b3
[257] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.27..v0.12.28
[258] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/6bb7f4752b2630627219a174aafdcb5a126673c6
[259] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.26..v0.12.27
[260] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8e3bd23a03bf4d508e75bebc2cea2a090536c5e7
[261] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.25..v0.12.26
[262] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8fe52a6073b6d69f1fb12546caafdf4120e9b252
[263] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.24..v0.12.25
[264] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/81bc019dd9c55829b307209a72e5c2b495227ec3

19.75 0.12.24[265] - 2025-04-21

19.75.1 ⚙ Miscellaneous Tasks

- *(vercel)* Filter out gui - (0693187[266])

19.76 0.12.23[267] - 2025-04-21

19.76.1 ⚙ Miscellaneous Tasks

- *(bottle)* Finally? - (3960337[268])

19.77 0.12.22[269] - 2025-04-21

19.77.1 ⚙ Miscellaneous Tasks

- *(bottle)* Finally - (d419e81[270])

19.78 0.12.20[271] - 2025-04-21

19.78.1 ⚙ Miscellaneous Tasks

- *(bottle)* Succeeded - (2f1716b[272])

19.79 0.12.19[273] - 2025-04-21

19.79.1 ⚙ Miscellaneous Tasks

- *(bottle)* Nightmare - (8dcd9a8[274])

19.80 0.12.18[275] - 2025-04-21

19.80.1 ⚙ Miscellaneous Tasks

- *(bottle)* Nightmare - (f71146e[276])

19.81 0.12.17[277] - 2025-04-21

19.81.1 ⚙ Miscellaneous Tasks

- *(bottle)* Import from vendored earlier - (2415a3f[278])

[265] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.23..v0.12.24
[266] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0693187e5284fc643def15ba4ab5ba42c1787ab2
[267] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.22..v0.12.23
[268] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/39603376d605e660a3f828809ae1acbef37f66b6
[269] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.20..v0.12.22
[270] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d419e81f7f9f3595daa560067af6179aaea81773
[271] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.19..v0.12.20
[272] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2f1716bb520a46cf5db78a98b5672f3a16ba25fb
[273] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.18..v0.12.19
[274] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8dcd9a8557b85d8be8606ab43e421e5d820a482f
[275] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.17..v0.12.18
[276] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f71146ea3cd137c2e43a60e8aaeb6c3dcf7ad87e
[277] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.16..v0.12.17
[278] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2415a3ff3ebdff015a0980d594dd184c73e028f9

19.82 0.12.16[279] - 2025-04-21

19.82.1 ⚙ Miscellaneous Tasks

- *(bottle)* Again - (7dbb891[280])

19.83 0.12.15[281] - 2025-04-21

19.83.1 ⚙ Miscellaneous Tasks

- *(bottle)* Fork tag - (659af8a[282])

19.84 0.12.14[283] - 2025-04-20

19.84.1 ⚙ Miscellaneous Tasks

- *(bottle)* Fork - (92dba21[284])

19.85 0.12.13[285] - 2025-04-20

19.85.1 ⚙ Miscellaneous Tasks

- *(bottle)* Sys.path to the rescue? - (5d87734[286])

19.86 0.12.12[287] - 2025-04-20

19.86.1 ⚙ Miscellaneous Tasks

- *(bottle)* Out of ideas - (959d2c0[288])

19.87 0.12.11[289] - 2025-04-20

19.87.1 ⚙ Miscellaneous Tasks

- *(bottle)* Override - (54a9a2c[290])

19.88 0.12.10[291] - 2025-04-20

19.88.1 ⚙ Miscellaneous Tasks

- *(extras)* Reintroduce gui - (e69b0ae[292])

[279] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.15..v0.12.16
[280] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/7dbb89144477cd3de705d5e7baaee8917f76f4ba
[281] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.14..v0.12.15
[282] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/659af8af33593acb45216a7b23a3bbd2409b5558
[283] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.13..v0.12.14
[284] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/92dba2139abe6a73558c92eff8220d6a82f83dfd
[285] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.12..v0.12.13
[286] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5d87734149927c09ba8a93e0827e9003a21367be
[287] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.11..v0.12.12
[288] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/959d2c0560bb82c2559a43579004899ae0ade476
[289] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.10..v0.12.11
[290] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/54a9a2cb7f81ad85fc9e1fc15582aed507339a37
[291] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.9..v0.12.10
[292] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e69b0ae659b5d47705b5618fbb4162c2fd7b4c06

19.89 0.12.9[293] - 2025-04-20

19.89.1 ⚙ Miscellaneous Tasks

- *(bottle)* … - (429017c[294])

19.90 0.12.8[295] - 2025-04-20

19.90.1 ⚙ Miscellaneous Tasks

- *(vercel)* Some - (78728c3[296])

19.91 0.12.7[297] - 2025-04-20

19.91.1 Debug

- *(bottle)* Uvx and bottle.py incompatibility - (8b11608[298])

19.92 0.12.6[299] - 2025-04-20

19.92.1 ⚙ Miscellaneous Tasks

- *(vercel)* Wheel - (afa977e[300])

19.93 0.12.5[301] - 2025-04-20

19.93.1 ⚙ Miscellaneous Tasks

- Deps - (9ace820[302])

19.94 0.12.4[303] - 2025-04-20

19.94.1 ⚙ Miscellaneous Tasks

- Bump - (627e901[304])
- Extra - (e9c87a6[305])

[293] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.8..v0.12.9
[294] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/429017c2e78c8db5c6bf3d73188a850f7c247760
[295] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.7..v0.12.8
[296] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/78728c311be4717027f54a087b964287e6d0daa9
[297] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.6..v0.12.7
[298] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8b1160824c1b53ecb32d0e4ede54ad9c034d125c
[299] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.5..v0.12.6
[300] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/afa977e89e788a4e61ff0f1d87eedc7311d44de4
[301] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.4..v0.12.5
[302] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9ace8200fd5542c40093b83818438adcf7360ed2
[303] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.2..v0.12.4
[304] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/627e9016a304ae84195640a2de2eec5489acddf9
[305] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e9c87a66bf1500079eb1e34a19935df5dc498b28

19.95 0.12.2[306] - 2025-04-20

19.95.1 🧪 Testing

- Some more - (63fa1ef[307])

19.96 0.12.1[308] - 2025-04-20

19.96.1 🚜 Refactor

- *(gui)* By default - (2291bff[309])

19.97 0.12.0[310] - 2025-04-20

19.97.1 ⛺ Features

- *(notebook,app)* Graphical app and notebook serving - (e894840[311])

19.97.2 🐛 Bug Fixes

- *(Docker)* Workdir - (ce5e92f[312])
- *(nicegui)* Various - (44376f2[313])
- *(test)* Another one - (9f8d250[314])
- *(test)* Adapt test - (26e923a[315])
- *(test)* Some - (8c48c9e[316])

19.97.3 🚜 Refactor

- *(gui)* Polish - (8dae0d4[317])
- *(gui)* Auto-discovery of pages and tests - (a95b5b6[318])
- *(gui)* Enable auto-discovery of gui - (9ac0e38[319])
- *(nicegui)* Page discovery - (4b683ed[320])

19.97.4 🧪 Testing

- Some - (0b75ada[321])

[306] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.1..v0.12.2
[307] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/63fa1ef2377ae647767eba298174a6dd2a66aa9a
[308] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.12.0..v0.12.1
[309] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2291bfffa98d3f503573a5baf4fc170dd1276ba5
[310] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.11.3..v0.12.0
[311] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e894840c1775d42db40d3777338a8e59f935f439
[312] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ce5e92f60261adfb5386832ae2ee1c3527ad5330
[313] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/44376f21c188d9cc1d394259b71188a913a4e821
[314] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9f8d2504d824c6a8103c9466926707df09895fb4
[315] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/26e923a05b6400a75c094caae797b16d235c8ce8
[316] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8c48c9ee77cab0c4117898e82e20ac177eefeca4
[317] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8dae0d4282ccaee601be181fbc434a5f5fdb63b9
[318] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a95b5b66b69002ea2cd2d90ba4b35118bf519822
[319] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9ac0e38ef933c0700e302864a325aaee4e65969e
[320] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4b683ed0a6fc4b363889ab4eeb67718f697e32e7
[321] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0b75ada163b8405718ebaa0268ef33b4ab9b5caf

19.97.5 ⚙ Miscellaneous Tasks

- *(Docker)* Polish - (a59b7bd[322])
- *(Docker)* Multistage, nonroot run, slim target - (c8aba9d[323])

19.98 0.11.3[324] - 2025-04-14

19.98.1 📚 Documentation

- *(lib)* Reference - (bb8bad1[325])

19.99 0.11.2[326] - 2025-04-14

19.99.1 📚 Documentation

- Lib ref - (ae791fa[327])

19.100 0.11.1[328] - 2025-04-14

19.100.1 ⚙ Miscellaneous Tasks

- *(make)* Install - (7c5cea8[329])

19.101 0.11.0[330] - 2025-04-13

19.101.1 📚 Documentation

- Lib - (d525fc2[331])

19.102 0.10.10[332] - 2025-04-13

19.102.1 🐛 Bug Fixes

- *(vercel)* Doc url - (27ac485[333])

19.103 0.10.9[334] - 2025-04-13

19.103.1 ⚙ Miscellaneous Tasks

- Env - (29050b1[335])

[322] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a59b7bd6403d2f48f7addbefb2735b58ac49674b
[323] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c8aba9d432bb4f7d06196edf5cab0a6b1da3f416
[324] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.11.2..v0.11.3
[325] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/bb8bad10830f9dccde8b62208080df466511df89
[326] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.11.1..v0.11.2
[327] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ae791fa26d59edf7bf7cf6aecac7df2fc3f2cb61
[328] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.11.0..v0.11.1
[329] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/7c5cea8c61d4ca202e8057bdcf50da1af7b512cd
[330] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.10..v0.11.0
[331] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d525fc29ffb44794e4943ae467b551bb7363076d
[332] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.9..v0.10.10
[333] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/27ac485cb0107a5b1946e0926c14fe6039751172
[334] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.8..v0.10.9
[335] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/29050b1de8723a0654cb2548a429bb658f933f0e

19.104 0.10.8[336] - 2025-04-13

19.104.1 Bug Fixes

- *(system)* Allow settings with Path attributes - (2eb0424[337])

19.105 0.10.7[338] - 2025-04-13

19.105.1 Features

- *(metrics)* Demonstrate use of custom metrics in service of Hello module - (ac6cf09[339])

19.105.2 Miscellaneous Tasks

- Intermediate - (b064e0b[340])

19.106 0.10.6[341] - 2025-04-13

19.106.1 Documentation

- Better vercel badge target - (c113809[342])

19.107 0.10.5[343] - 2025-04-13

19.107.1 Features

- *(info)* Up and boottime - (3bd7380[344])

19.108 0.10.4[345] - 2025-04-13

19.108.1 Bug Fixes

- *(env.example)* Better default value, so all tests run - (46abf74[346])

19.109 0.10.3[347] - 2025-04-13

19.109.1 Documentation

- Where to get badge - (857bf2d[348])

[336] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.7..v0.10.8
[337] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2eb042445364f93dbc2457529b3297e3155546e4
[338] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.6..v0.10.7
[339] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ac6cf0921a077c656c42c411a38f7c4e6a76aefb
[340] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/b064e0b2a3b90301aae31dd47d17dc6f9a179b72
[341] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.5..v0.10.6
[342] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c113809a6b2cb8f6356042b4956b7d7571fa2526
[343] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.4..v0.10.5
[344] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3bd7380d72dd558f440154b73b166d15e15a4bb9
[345] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.3..v0.10.4
[346] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/46abf74377818b935c9037aff13dc237e4ff2222
[347] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.2..v0.10.3
[348] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/857bf2dee15a3d1bf645e831eb984294fad2db64

19.110 0.10.2[349] - 2025-04-13

19.110.1 ⛰️ Features

- *(system)* OpaqueSettings and info endpoint with auth - (e99acfe[350])

19.111 0.10.1[351] - 2025-04-13

19.111.1 🐛 Bug Fixes

- Streamlit - (361efd7[352])

19.112 0.10.0[353] - 2025-04-13

19.112.1 ⛰️ Features

- *(health)* Hierarchical health - (ad5fc1f[354])
- *(instrumentation,di)* Sentry, logfire, dependency injection - (424075e[355])

19.112.2 🐛 Bug Fixes

- Some - (366648f[356])
- Increase test coverage, some fixes - (5c89ff7[357])

19.112.3 🚜 Refactor

- Code smell - (5951c38[358])

19.112.4 📚 Documentation

- Some polish - (5749259[359])

19.113 0.9.7[360] - 2025-04-08

19.113.1 📚 Documentation

- Tests folder - (6bcdd52[361])

[349] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.1..v0.10.2
[350] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e99acfe79b1a5d825cfb41960dddf21bc35a793b
[351] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.10.0..v0.10.1
[352] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/361efd7e2348371113938e8866c2feb9f9901de0
[353] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.7..v0.10.0
[354] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ad5fc1fa7ad7af0ade8b54bc2121d73c0351b408
[355] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/424075ee3e86bf5d00afec1647d4d04266bed735
[356] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/366648fc9390394214d6e1302efe4107bc6a800e
[357] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5c89ff75e65cbef2e83449b70fec79ff4dadb67f
[358] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5951c38e7d2388bd677a2ff3cb115fe4f8f1bf1d
[359] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/57492599ed7af2d98160535195b4908d055d0438
[360] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.6..v0.9.7
[361] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/6bcdd5279fd03e96be7462b1f8e6c991e1b0b720

19.114 0.9.6[362] - 2025-04-08

19.114.1 ⚙ Miscellaneous Tasks

- No dist.. in sonarqube - (42e4756[363])

19.115 0.9.5[364] - 2025-04-08

19.115.1 🧪 Testing

- Docker, long_running - (f4276f0[365])

19.116 0.9.4[366] - 2025-04-07

19.116.1 📚 Documentation

- Sidebar - (c4af821[367])

19.117 0.9.3[368] - 2025-04-07

19.117.1 🐛 Bug Fixes

- Doc templ - (8f72208[369])

19.118 0.9.2[370] - 2025-04-07

19.118.1 📚 Documentation

- Fix broken links to reference - (e4a3266[371])

19.119 0.9.1[372] - 2025-04-07

19.119.1 📚 Documentation

- Polish - (33f492e[373])

19.120 0.9.0[374] - 2025-04-07

19.120.1 📚 Documentation

- Polish - (b76fd79[375])

[362] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.5..v0.9.6
[363] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/42e4756b7116a71f0e98b81a98a0850b49a35d67
[364] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.4..v0.9.5
[365] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f4276f0f5b75986377306b5daf300aa77e2c6f77
[366] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.3..v0.9.4
[367] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c4af821b96b68f2b4674ad44202cb3a0df9da320
[368] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.2..v0.9.3
[369] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8f722085f5d1070fc5dd095b59f4faf7b6549d5b
[370] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.1..v0.9.2
[371] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e4a3266736d5efa605b1d6e9e5616d87c3ec1fb6
[372] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.9.0..v0.9.1
[373] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/33f492eee9ae897c57959a26056430cc902585c3
[374] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.34..v0.9.0
[375] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/b76fd79b6d83a654fc8d3c3b2bf8a058bb2eabb8

19.121 0.8.34[376] - 2025-04-06

19.121.1 🚜 Refactor

- Polish - (8ff2ae7[377])

19.121.2 ⚙ Miscellaneous Tasks

- *(test)* Fix double run - (123903b[378])

19.122 0.8.33[379] - 2025-04-06

19.122.1 🚜 Refactor

- *(attributions)* Cognitive complexity - (0e78a06[380])

19.123 0.8.32[381] - 2025-04-06

19.123.1 ⛰ Features

- *(lint)* Types for requests - (3db9e2b[382])

19.123.2 📚 Documentation

- Fix typo - (77ffde4[383])

19.124 0.8.31[384] - 2025-04-06

19.124.1 🐛 Bug Fixes

- *(ga)* Reports folder - (4138828[385])

19.125 0.8.30[386] - 2025-04-06

19.125.1 🐛 Bug Fixes

- *(ga)* Path - (85d626f[387])

19.125.2 🚜 Refactor

- *(ga)* Some love for github actions, e.g. audit not spamming log - (98a6ecd[388])

[376] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.33..v0.8.34
[377] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8ff2ae7774d5efb57f0bc48d6d6ffc1a0745ae33
[378] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/123903b53cf4289a833f567b41bae20196080207
[379] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.32..v0.8.33
[380] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0e78a0635730fa00aa2a70f65b6d6a1fb3f87507
[381] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.31..v0.8.32
[382] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3db9e2bbc817c08d29a88bc261f2c0a2a7484935
[383] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/77ffde41b4d796c10f3d40a2c03f163ab88730d4
[384] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.30..v0.8.31
[385] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/41388280f9d1cb66fc96102cc635c13dc912eaec
[386] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.29..v0.8.30
[387] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/85d626f54d0184b7a50889644bbab49ce42662a3
[388] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/98a6ecddb5977b9fbb9fdf5631245db79773ac31

19.125.3 ⚙ Miscellaneous Tasks

- *(ga)* Polish - (7ab0fce[389])
- *(ga)* Path - (4378ce0[390])

19.126 0.8.29[391] - 2025-04-05

19.126.1 📚 Documentation

- *(rtd)* Polish links - (dfc9cda[392])

19.127 0.8.28[393] - 2025-04-05

19.127.1 ⚙ Miscellaneous Tasks

- *(sphinx)* Reenable fail on warn - (8b0d16a[394])

19.128 0.8.27[395] - 2025-04-05

19.128.1 ⚙ Miscellaneous Tasks

- *(rtd)* Don't fail on warn for now - (59138d0[396])

19.129 0.8.26[397] - 2025-04-05

19.129.1 🐛 Bug Fixes

- Flaws spotted by codeql - (adc292a[398])

19.130 0.8.25[399] - 2025-04-05

19.130.1 📚 Documentation

- Polish - (301301c[400])

19.131 0.8.23[401] - 2025-04-05

19.131.1 ⚙ Miscellaneous Tasks

- *(ga)* Npm for github - (918415b[402])

[389] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/7ab0fce923238670ea3c61ce05ef4f20b2529d71
[390] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4378ce0d8d177e30292d2c4cda3f08576fc5ec2e
[391] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.28..v0.8.29
[392] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/dfc9cda41101517476ec4bde83ce5ea28d56ca58
[393] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.27..v0.8.28
[394] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8b0d16aa067f96bb9f81c14135d04832e733e85f
[395] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.26..v0.8.27
[396] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/59138d0866a70a6f942a0bceeff7c4c049d837a2
[397] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.25..v0.8.26
[398] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/adc292a5daca6cc744ea94275e8a1464225ab6a8
[399] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.24..v0.8.25
[400] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/301301cc8749677af60e5d068178867c8be01230
[401] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.22..v0.8.23
[402] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/918415b57b0aa09c80ec7fb56d53e80b09a8d767

19.132 0.8.22[403] - 2025-04-05

19.132.1 Documentation

- CLI reference (generated), API reference (generated) - (9fcca7d[404])

19.133 0.8.21[405] - 2025-04-04

19.133.1 Miscellaneous Tasks

- Scheduled - (8523a30[406])

19.134 0.8.20[407] - 2025-04-04

19.134.1 Bug Fixes

- Typo that broke Makefile - (4e0da53[408])

19.135 0.8.19[409] - 2025-04-04

19.135.1 Miscellaneous Tasks

- *(docs)* Add imagemagick to support .svg in docs - (4be5028[410])

19.136 0.8.18[411] - 2025-04-03

19.136.1 Features

- *(test)* Scheduled - (e5ee82d[412])

19.137 0.8.17[413] - 2025-04-03

19.137.1 Bug Fixes

- *(nox/pytest)* Pass through extra args - (fdf19fd[414])

19.138 0.8.15[415] - 2025-04-01

19.138.1 Miscellaneous Tasks

- *(vercel)* Smoke test - (56a91e7[416])

[403] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.21..v0.8.22
[404] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9fcca7d6b31d581f5838ef95e8e7cda932129d4b
[405] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.20..v0.8.21
[406] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8523a304576ef4c194a0f499c293cfbc3094a9aa
[407] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.19..v0.8.20
[408] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4e0da538b0c98d3bb9dfd4f15832dca5c4b3ca46
[409] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.18..v0.8.19
[410] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4be5028dfc999dc7a29be3a939d4950759e66197
[411] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.17..v0.8.18
[412] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e5ee82dd5f031c29fe9e7ce7da7f17ecd5b59a96
[413] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.16..v0.8.17
[414] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/fdf19fd000952137094abd31b2481037b0864207
[415] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.14..v0.8.15
[416] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/56a91e721d4f3e8500d95ca0a5ceca3e9a7776fe

19.139 0.8.14[417] - 2025-04-01

19.139.1 ⚙ Miscellaneous Tasks

- *(vercel)* On tag - (3a963f2[418])

19.140 0.8.13[419] - 2025-04-01

19.140.1 Experiment

- *(vercel)* Smoke test - (4ca9d27[420])

19.141 0.8.12[421] - 2025-03-31

19.141.1 ⚙ Miscellaneous Tasks

- *(vercel)* Polished - (6379804[422])

19.141.2 Experiment

- *(vercel)* Deploy with fork - (47375b7[423])
- *(vercel)* Switch to fork of vercel-deploy - (855c671[424])
- Vercel gh action - (dc62586[425])

19.142 0.8.11[426] - 2025-03-30

19.142.1 ⚙ Miscellaneous Tasks

- *(vercel)* Polish - (5b38f78[427])

19.143 0.8.10[428] - 2025-03-30

19.143.1 ⚙ Miscellaneous Tasks

- *(vercel)* Polish - (6af1d05[429])

19.144 0.8.9[430] - 2025-03-30

19.144.1 ⚙ Miscellaneous Tasks

- *(vercel)* Don't create VERCEL.md if disabled - (ea5849d[431])

[417] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.13..v0.8.14
[418] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3a963f284f943cb8d04d52d92ae8711a4045483f
[419] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.12..v0.8.13
[420] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4ca9d272e9db7c5aee5808fe0cfec71c4886cf4b
[421] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.11..v0.8.12
[422] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/63798043c9a6fa7f1ed965e76a078faa2cb7520b
[423] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/47375b7fbea989263640bcdb240073020b257278
[424] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/855c671b2da13988f2d3af6a3d4c9dbf22ebca09
[425] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/dc62586589f673e48aec5c41f7743a9bba13c6a6
[426] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.10..v0.8.11
[427] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5b38f78115bf52d8763999aea049e1f71ed0477c
[428] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.9..v0.8.10
[429] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/6af1d05edce9b61af30778d722f4911a5b65e75f
[430] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.8..v0.8.9
[431] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ea5849df464f6c9ababc934dc58c5ae4997db4ec

19.145 0.8.8[432] - 2025-03-30

19.145.1 ⚙ Miscellaneous Tasks

- *(vercel)* No warn if disabled - (06842d3[433])

19.146 0.8.7[434] - 2025-03-30

19.146.1 ⚙ Miscellaneous Tasks

- *(vercel)* Revert typo - (5233bd0[435])

19.147 0.8.6[436] - 2025-03-30

19.147.1 ⚙ Miscellaneous Tasks

- *(vercel)* Pin checkout - (0b3faeb[437])

19.148 0.8.5[438] - 2025-03-30

19.148.1 🚜 Refactor

- *(pre-commit)* Don't apply for dist_vercel - (30f3a7e[439])

19.149 0.8.4[440] - 2025-03-30

19.149.1 ⛺ Features

- *(deploy)* … to Vercel Function - (dd1a9d7[441])

19.149.2 ⚙ Miscellaneous Tasks

- *(vercel)* Fix deploy - (d48353d[442])

19.149.3 Debug

- *(gha)* Vercel prod - (8e6115d[443])
- Check if homebrew really works on gha - (7fdcca4[444])

[432] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.7..v0.8.8
[433] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/06842d375f2d9cb682f0fcfc6c36b7d66e1b5172
[434] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.6..v0.8.7
[435] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5233bd027ec16f55f4af6cd973de8c605bb62d59
[436] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.5..v0.8.6
[437] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0b3faeb7121a76e714f9c6ae8dd6e0739b9672a1
[438] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.4..v0.8.5
[439] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/30f3a7ea7dcfb4774c7b4450378700a89670792c
[440] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.3..v0.8.4
[441] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/dd1a9d79373a5ed539ee8210023fa243eed28366
[442] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d48353d6f8c4e31a94d7e9779604d1a7b815f8e0
[443] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8e6115d08441dbaf7ff03475fb63df1259c1520e
[444] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/7fdcca40faa35c91912763cf99f0717fc81b2aa7

19.150 0.8.3[445] - 2025-03-30

19.150.1 ⚙ Miscellaneous Tasks

- *(attributions)* Prep on update - (e2eba85[446])

19.151 0.8.2[447] - 2025-03-29

19.151.1 Documentation

- Mention security policy in footer - (5fb468e[448])

19.152 0.8.1[449] - 2025-03-29

19.152.1 ⚙ Miscellaneous Tasks

- *(ga)* Add missing trivy tool to publish workflow - (8e004e0[450])

19.153 0.8.0[451] - 2025-03-29

19.153.1 Features

- *(trivy)* Additional vulnerability checks plus SBOM in .spdx - in addition to CycloneDX - using trivy - (bec37f5[452])

19.154 0.7.10[453] - 2025-03-28

19.154.1 ⚙ Miscellaneous Tasks

- *(nox)* Update_from_template, correct order - (7769ef3[454])

19.155 0.7.9[455] - 2025-03-28

19.155.1 Features

- *(licenses)* Allow-list license types, generate attributions - (699266b[456])

19.156 0.7.8[457] - 2025-03-27

19.156.1 Documentation

- *(contributing)* Mention of add. audit reports - (6a07339[458])

[445] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.2..v0.8.3
[446] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e2eba85489541f757f4a19b29ae05cca0ac43172
[447] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.1..v0.8.2
[448] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5fb468e1bbfa2de41cb4b42b027ac5496480ecd5
[449] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.8.0..v0.8.1
[450] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8e004e0df5fd8139ba129861b39106cbe5943f89
[451] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.10..v0.8.0
[452] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/bec37f5d0221d844ad94db7b509d6041725845a2
[453] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.9..v0.7.10
[454] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/7769ef3fa00e4e320d178531d0779fbf0a315e0f
[455] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.8..v0.7.9
[456] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/699266b9c95d2cf590dde5e97dcdb3ddeeb9fb22
[457] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.7..v0.7.8
[458] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/6a073398c382c8f393b4d7d00aec69a7a19c5f67

19.157 0.7.6[459] - 2025-03-26

19.157.1 🐛 Bug Fixes

- Test - (05f6d76[460])

19.158 0.7.5[461] - 2025-03-26

19.158.1 ⛰️ Features

- *(settings)* Demonstrate how to use settings for configuration management - (821a835[462])

19.159 0.7.3[463] - 2025-03-25

19.159.1 ⚙️ Miscellaneous Tasks

- Add gmake to installs so we have a fallback in case there is an issue with xcode installed make - (64ecb1f[464])

19.160 0.7.2[465] - 2025-03-22

19.160.1 ⛰️ Features

- *(install)* Install.sh for global dev tools - (5a87770[466])

19.161 0.7.1[467] - 2025-03-22

19.161.1 📚 Documentation

- *(Docker)* More extensive examples - (b441aac[468])

19.162 0.7.0[469] - 2025-03-22

19.162.1 📚 Documentation

- Polish - (45c266f[470])

19.163 0.6.36[471] - 2025-03-22

19.163.1 🚜 Refactor

- *(Makefile)* Migrated from ./n to Makefile, with nice make help - (01ac64c[472])

[459] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.5..v0.7.6
[460] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/05f6d762725c39983c2aa82e74ef52151c0bfd6e
[461] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.4..v0.7.5
[462] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/821a83560a357832dfa958363ec901288ac24ad8
[463] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.2..v0.7.3
[464] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/64ecb1fccfd27d9301f116c7e41d006ef21c28bb
[465] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.1..v0.7.2
[466] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5a8777090509e91a5e59003c6edf3dd22b3945c2
[467] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.7.0..v0.7.1
[468] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/b441aac7470f5951bda88e095b05a2b1be3d61b0
[469] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.36..v0.7.0
[470] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/45c266fc71d837b258ca5c8cdb05a4115bc48387
[471] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.35..v0.6.36
[472] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/01ac64c966ed574816bcdc7d17303e4194701f24

19.164 0.6.35[473] - 2025-03-22

19.164.1 🚜 Refactor

- Cleanup - (20b92e4[474])

19.165 0.6.34[475] - 2025-03-21

19.165.1 ⛰ Features

- Codeql and attestations can be disabled - (663cb7f[476])

19.166 0.6.33[477] - 2025-03-21

19.166.1 🐛 Bug Fixes

- Vars - (dc2e3a5[478])

19.167 0.6.32[479] - 2025-03-21

19.167.1 🚜 Refactor

- *(app)* Extract models - (a69d762[480])

19.168 0.6.31[481] - 2025-03-21

19.168.1 📚 Documentation

- Polish to better highlight removing the upper section post generation - (4bf1d46[482])

19.169 0.6.30[483] - 2025-03-21

19.169.1 📚 Documentation

- Polish intro, highlight configurability during scaffolding - (17126f3[484])

19.170 0.6.29[485] - 2025-03-20

19.170.1 🐛 Bug Fixes

- *(naming)* More - (7646238[486])

[473] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.34..v0.6.35
[474] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/20b92e4fcf6ce844ef8b7f688a9dcd8445315eaf
[475] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.33..v0.6.34
[476] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/663cb7f757421b0d7085bab7d1e64da1bba58b91
[477] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.32..v0.6.33
[478] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/dc2e3a5453681a09547474a6f00d242d6c41d57d
[479] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.31..v0.6.32
[480] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a69d762930509c45b8b2574097273f71823d3322
[481] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.30..v0.6.31
[482] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4bf1d46b9f71ebc5dd2aa2e608c2c760bfdb3026
[483] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.29..v0.6.30
[484] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/17126f3bca202d949b2dde3bf6c59edf14681bd1
[485] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.28..v0.6.29
[486] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/76462389978274f01cc6d92e2ad5fc4a6ce0d505

- Names - (fc1a68d[487])

19.171 0.6.28[488] - 2025-03-20

19.171.1 Documentation

- Add warning - (5758785[489])

19.172 0.6.27[490] - 2025-03-20

19.172.1 Features

- *(configurability)* Pypi distribution name different to import package name different to repository name - (60fbafa[491])

19.173 0.6.26[492] - 2025-03-20

19.173.1 Documentation

- Polish - (f2c9ee5[493])

19.174 0.6.25[494] - 2025-03-20

19.174.1 Documentation

- Polish - (997cbc9[495])

19.175 0.6.24[496] - 2025-03-20

19.175.1 Documentation

- Refactor intro - (46c9054[497])

19.176 0.6.23[498] - 2025-03-20

19.176.1 Documentation

- Refactor intro - (7e30bd3[499])

[487] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/fc1a68df487165ba2dc0b43f7d878bba92cb6e67
[488] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.27..v0.6.28
[489] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5758785c06f54b9f913dbb6dad89fb379198475e
[490] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.26..v0.6.27
[491] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/60fbafaa6364641775fc69e1ab77c0767dbe185f
[492] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.25..v0.6.26
[493] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f2c9ee54fa3d18f09dab2c11b293cc237b4e0226
[494] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.24..v0.6.25
[495] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/997cbc924b03d488c41e412c7b1b5c3d51d200a4
[496] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.23..v0.6.24
[497] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/46c905486d34f319b7c293c3f1fd82773bc1a8b0
[498] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.22..v0.6.23
[499] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/7e30bd30a516c52c729615fa516e0b493cdf0213

19.177 0.6.22[500] - 2025-03-19

19.177.1 Documentation

- Polish - (9af66c9[501])

19.178 0.6.21[502] - 2025-03-18

19.178.1 Miscellaneous Tasks

- *(gh)* Uv action - (bc632fe[503])

19.179 0.6.20[504] - 2025-03-18

19.179.1 Bug Fixes

- *(codeql)* Remaining pin - (c31a05b[505])

19.180 0.6.19[506] - 2025-03-18

19.180.1 Refactor

- *(codeql)* Fix - (0af319f[507])

19.181 0.6.18[508] - 2025-03-18

19.181.1 Documentation

- *(api)* Pdf - (ecd7dda[509])

19.181.2 Miscellaneous Tasks

- *(rtd)* Debug - (80703d7[510])
- Debug rtd - (bc760ac[511])
- Debug rtd pdf link - (192df7f[512])

19.182 0.6.17[513] - 2025-03-18

19.182.1 Features

- *(docs_pdf)* Check for latex tooling - (3c35f28[514])

[500] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.21..v0.6.22
[501] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9af66c97bb04eeebd63395cff33b5a650dd081aa
[502] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.20..v0.6.21
[503] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/bc632fee8ca1d3e3cb4495d12e134f18dc855028
[504] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.19..v0.6.20
[505] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c31a05bc09602cac72799a5e1c9e2a574788ce91
[506] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.18..v0.6.19
[507] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0af319fcf7a24c06cb3cacdfa3140e6121830e09
[508] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.17..v0.6.18
[509] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ecd7dda9fedc464976b5b2f8afa56cf0a35c645f
[510] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/80703d734a8cd77e35aad6aec14bdefb9d61ed51
[511] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/bc760aca603950b8dd1cf5c77241b2f8ccc091d2
[512] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/192df7f2552180eb721fd21b32f9e074c0f35073
[513] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.16..v0.6.17
[514] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3c35f280652557650e4aa40c8b459ed42c536a65

19.183 0.6.16[515] - 2025-03-18

19.183.1 ⛰ Features

- *(codeql)* Enable security-extended and security-and-quality - (0dead53[516])

19.184 0.6.15[517] - 2025-03-18

19.184.1 ⚙ Miscellaneous Tasks

- *(docs)* Generate singlehtml and pdf; deeper rennovate link - (14fe3c0[518])

19.185 0.6.14[519] - 2025-03-18

19.185.1 🚜 Refactor

- *(api)* Fully dry - (56e748f[520])

19.186 0.6.13[521] - 2025-03-18

19.186.1 🐛 Bug Fixes

- *(docker-image-build-publish)* Indent - (28e69bf[522])

19.187 0.6.12[523] - 2025-03-17

19.187.1 📚 Documentation

- *(rennovate)* Add to service_connections - (e792ad4[524])

19.188 0.6.11[525] - 2025-03-17

19.188.1 Enh

- *(docker)* Make publishing to docker.io configurable - (2bd8cd2[526])

19.189 0.6.10[527] - 2025-03-17

19.189.1 Enh

- *(docker)* Make publishing to docker.io configurable - (c0f3f6b[528])

[515] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.15..v0.6.16
[516] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0dead53a748967132eb80f570b44d038a88788e5
[517] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.14..v0.6.15
[518] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/14fe3c07e45daee42716c7d09fcbeb6aae02c9a7
[519] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.13..v0.6.14
[520] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/56e748fab6e1cb3ae08f606b0aadb205e72ca353
[521] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.12..v0.6.13
[522] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/28e69bf37ae76e9eefb4d355e33a6a1dc96d40f3
[523] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.11..v0.6.12
[524] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e792ad41e6db203b434fd34f6a57c8816f25bfab
[525] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.10..v0.6.11
[526] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2bd8cd2f19ab95755226305833fd84762ae4a372
[527] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.9..v0.6.10
[528] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c0f3f6b59c071c8618cd7f10a8c3030ee069b1d0

19.190 0.6.9[529] - 2025-03-17

19.190.1 ⚙ Miscellaneous Tasks

- *(docker)* Try to push to ghcr.io. only - (6b7146a[530])

19.191 0.6.8[531] - 2025-03-17

19.191.1 🐛 Bug Fixes

- *(rtd)* Quotes - (8d307a6[532])

19.192 0.6.7[533] - 2025-03-17

19.192.1 Enh

- *(rtd)* Support business edition - (650b1cb[534])

19.193 0.6.6[535] - 2025-03-17

19.193.1 🚜 Refactor

- *(api)* Dry - (295ff4d[536])

19.194 0.6.5[537] - 2025-03-17

19.194.1 📚 Documentation

- *(readme)* Typo - (8e5f20b[538])

19.195 0.6.4[539] - 2025-03-17

19.195.1 🚜 Refactor

- Dry - (c427611[540])

19.195.2 ⚙ Miscellaneous Tasks

- Bump - (e5993ee[541])

[529] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.8..v0.6.9
[530] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/6b7146aaee8b9e55dcd3a401a550a49e86b92981
[531] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.7..v0.6.8
[532] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8d307a6da8c1e594aac499c875863d776f34e5e4
[533] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.6..v0.6.7
[534] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/650b1cb0a1bccb57159a65eb1f28c2ae9f625340
[535] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.5..v0.6.6
[536] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/295ff4d1f456f85d04f96a9941de4bdb923de9a4
[537] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.4..v0.6.5
[538] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8e5f20b5f76a5dceec6bd34a7cf6e002bee6183b
[539] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.2..v0.6.4
[540] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c4276118dfbef8c729011462550e1a2d565fe7b6
[541] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e5993eee24425279d2aed636c913d49b4aa0149a

19.196 0.6.2[542] - 2025-03-17

19.196.1 Documentation

- *(README)* Add –trust, and simplify by removing manual setup step - (c4f5ec5[543])

19.197 0.6.1[544] - 2025-03-17

19.197.1 Bug Fixes

- *(sonarqube)* Path of coverage.xml - (3679537[545])

19.198 0.6.0[546] - 2025-03-16

19.198.1 Features

- Code-style for humans and ai - (ba42952[547])

19.198.2 Bug Fixes

- *(n)* Additional args - (9600292[548])

19.199 0.5.14[549] - 2025-03-16

19.199.1 Documentation

- Typo - (f15058b[550])

19.200 0.5.13[551] - 2025-03-16

19.200.1 Documentation

- *(code-style)* Include in rtd - (98becb4[552])

19.201 0.5.12[553] - 2025-03-16

19.201.1 Documentation

- Instructions for humans and agents - (02cca3e[554])

[542] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.1..v0.6.2
[543] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c4f5ec569007f852191029a16b9b6743ef0a5cee
[544] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.6.0..v0.6.1
[545] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/367953781b8b4592124dc91cd3829fc6e380810e
[546] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.14..v0.6.0
[547] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ba42952a4ad6f6db500753ec40954e4b2596c5fb
[548] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/96002921893a3da76926dad76140cf4afa9802b6
[549] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.13..v0.5.14
[550] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f15058bcc58333dd6147bd3f13a8bfd93e2e42d1
[551] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.12..v0.5.13
[552] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/98becb44493712ea71b2bd0efb89cb99c58a23d8
[553] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.11..v0.5.12
[554] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/02cca3ec5a9c4f3638216141a8d122c9dc1c272c

19.202 0.5.11[555] - 2025-03-15

19.202.1 ⚙ Miscellaneous Tasks

- *(tooling)* Simplify more - (19409c0[556])

19.203 0.5.10[557] - 2025-03-15

19.203.1 ⚙ Miscellaneous Tasks

- .gitignore - (4b32ad6[558])

19.204 0.5.9[559] - 2025-03-15

19.204.1 🐛 Bug Fixes

- .gitignore - (8de2b49[560])

19.205 0.5.8[561] - 2025-03-15

19.205.1 🚜 Refactor

- *(tooling)* Simplify - (478674f[562])

19.206 0.5.7[563] - 2025-03-14

19.206.1 ⛰ Features

- Add. release artefacts - (a2ddd91[564])

19.207 0.5.6[565] - 2025-03-14

19.207.1 📚 Documentation

- SECURITY.md with links - (4ebd8cb[566])

19.208 0.5.5[567] - 2025-03-14

19.208.1 Deps

- *(ruff)* Bump in template - (a85b7b2[568])

[555] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.10..v0.5.11
[556] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/19409c044441c8e471248bfbb331f60b81188896
[557] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.9..v0.5.10
[558] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4b32ad6504ebd602b354cf823d3e5d4bf87b8af4
[559] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.8..v0.5.9
[560] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8de2b49cea020038c96e1e6fe9ff7559d172c427
[561] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.7..v0.5.8
[562] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/478674f7e2fc6395bdec79b5c5e893d7266c4d56
[563] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.6..v0.5.7
[564] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a2ddd9106f7a2fc030818468d2b2a08cffcdd1eb
[565] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.5..v0.5.6
[566] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4ebd8cb78c76e3f6ffff1bbbfd19c79ad5a1385d
[567] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.4..v0.5.5
[568] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a85b7b21adb9796f58f789e704cc47803c404443

19.209 0.5.4[569] - 2025-03-14

19.209.1 Documentation

- *(api)* Typo - (1d94be1[570])

19.209.2 Miscellaneous Tasks

- *(ruff)* Bump - (8151ced[571])

19.210 0.5.2[572] - 2025-03-14

19.210.1 Documentation

- Link to security advisory form in SECURITY.md - (9c75421[573])

19.211 0.5.1[574] - 2025-03-14

19.211.1 Miscellaneous Tasks

- *(codeql)* Move - (badd28e[575])

19.212 0.5.0[576] - 2025-03-14

19.212.1 Miscellaneous Tasks

- *(dependabot)* Typo - (c1992b7[577])

19.213 0.4.9[578] - 2025-03-14

19.213.1 Miscellaneous Tasks

- *(dependabot)* Fix config - (a947199[579])

19.214 0.4.8[580] - 2025-03-14

19.214.1 Features

- Additional code security analysis using GitHub CodeQL, additional dependency checking using GitHub dependabot, security policy - (4e15e8f[581])

[569] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.2..v0.5.4
[570] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/1d94be15bf0e8a9d244d516a82f0b58d155eb5dc
[571] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/8151ced22165ea6e682807b227258401245d8382
[572] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.1..v0.5.2
[573] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9c75421b87eb00adb6de0bca6d4b6e50fad193b3
[574] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.5.0..v0.5.1
[575] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/badd28ebd048db78fed23e0f28b84d3d0bbb4716
[576] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.9..v0.5.0
[577] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/c1992b7d23508def43b9c38f7bbb8e9ee83db651
[578] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.8..v0.4.9
[579] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a947199f09cc8917eff433f06c20ced39e70af5a
[580] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.7..v0.4.8
[581] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4e15e8f1f996133545dc0c6daae7107e8b2199a4

19.215 0.4.7[582] - 2025-03-13

19.215.1 ⛰ Features

- *(renovate)* Default config on template copy - (3f40566[583])

19.216 0.4.6[584] - 2025-03-13

19.216.1 ⚙ Miscellaneous Tasks

- Bump - (5cf12b5[585])

19.217 0.4.5[586] - 2025-03-13

19.217.1 📚 Documentation

- Typo - (1ffcb14[587])

19.218 0.4.4[588] - 2025-03-13

19.218.1 📚 Documentation

- Link template - (5927a2d[589])

19.219 0.4.3[590] - 2025-03-13

19.219.1 Enh

- *(versioned api)* Central docs entrypoint - (24fda94[591])

19.220 0.4.2[592] - 2025-03-13

19.220.1 🐛 Bug Fixes

- *(docs)* Hardcoded command - (d98e6fd[593])

19.221 0.4.1[594] - 2025-03-13

19.221.1 🐛 Bug Fixes

- *(tests)* Test_cli_serve - (ac1a02c[595])

[582] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.6..v0.4.7
[583] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3f40566b0481ee8fcf6bfcf971a7f39022a542f9
[584] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.5..v0.4.6
[585] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5cf12b5157144bc8c813433bf29cbea54c0dacc5
[586] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.4..v0.4.5
[587] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/1ffcb14d72f004548be818e418869c3c4fda1dc4
[588] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.3..v0.4.4
[589] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5927a2d4b8cb40d5a97c9b6229f46b83cbf007fa
[590] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.2..v0.4.3
[591] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/24fda9401e864ef66109e701b7f549398282c98b
[592] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.1..v0.4.2
[593] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d98e6fde86fff01083b52e806295343fb5b5d828
[594] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.4.0..v0.4.1
[595] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ac1a02c04f39c664d71ffa127af72635b5eadfa5

19.222 0.4.0[596] - 2025-03-13

19.222.1 ⛰ Features

- Versioned API - (dccaa20[597])

19.223 0.3.9[598] - 2025-03-12

19.223.1 ⛰ Features

- *(api)* Healthz - (f6826a0[599])

19.224 0.3.8[600] - 2025-03-11

19.224.1 📚 Documentation

- Broken link - (960de47[601])

19.225 0.3.7[602] - 2025-03-11

19.225.1 📚 Documentation

- Broken link; refactor: naming .act-env - (e1d3074[603])

19.226 0.3.6[604] - 2025-03-11

19.226.1 ⛰ Features

- Api incl. swagger within sphinx - (69138f1[605])

19.226.2 📚 Documentation

- Placing of openapi specs for sphinx - (da85ba0[606])

19.226.3 🧪 Testing

- Tests for serve and openapi commands - (fee2798[607])

19.227 0.3.4[608] - 2025-03-08

19.227.1 📚 Documentation

- Typo - (67af4eb[609])

[596] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.9..v0.4.0
[597] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/dccaa202225102f2065f06a7079a2e7490474ca3
[598] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.8..v0.3.9
[599] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f6826a02ab0070154056231ec4314da71200623c
[600] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.7..v0.3.8
[601] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/960de47733a155df00d3e7f271dc1bc20a4089b9
[602] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.6..v0.3.7
[603] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e1d3074f852be4efb9f1a6e9291102d47a447d34
[604] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.5..v0.3.6
[605] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/69138f132f5492cea5c6d61bcc700fd483cf582a
[606] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/da85ba0300e388de25d2feb820d2600f74f22612
[607] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/fee2798c4e93223f062bd108f476728f617b8461
[608] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.3..v0.3.4
[609] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/67af4eb80faf9c30a061627eddae8e134a9e6186

19.228 0.3.3[610] - 2025-03-08

19.228.1 📚 Documentation

- Polish - (a7b5e11[611])

19.229 0.3.1[612] - 2025-03-08

19.229.1 🚜 Refactor

- *(nox)* Const - (63d923d[613])

19.230 0.3.0[614] - 2025-03-08

19.230.1 🪛 Bug Fixes

- *(sonarqube)* Description meta - (102901e[615])

19.231 0.2.18[616] - 2025-03-08

19.231.1 🪛 Bug Fixes

- *(template)* Only run some on .git - (1d6207f[617])

19.232 0.2.17[618] - 2025-03-08

19.232.1 🪛 Bug Fixes

- *(template)* Only run some on .git - (d0bf667[619])

19.233 0.2.16[620] - 2025-03-08

19.233.1 🪛 Bug Fixes

- *(template)* Only run some on .git - (2276f67[621])

19.234 0.2.15[622] - 2025-03-08

19.234.1 🪛 Bug Fixes

- *(setup_dev)* Only run some on .git - (f0fdeb4[623])

[610] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.2..v0.3.3
[611] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/a7b5e111c6ebce5531a05a0d57aea9680b7a16da
[612] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.3.0..v0.3.1
[613] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/63d923d440ff250994579726daf4984a993c8672
[614] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.18..v0.3.0
[615] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/102901e79ea531b81a41dac79caf2b1b4cb2201d
[616] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.17..v0.2.18
[617] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/1d6207fb192a73239e6b0755a291ab9fc1476fcd
[618] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.16..v0.2.17
[619] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d0bf667489730975cdc3d3d4f10b3e746c8fea4d
[620] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.15..v0.2.16
[621] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2276f67631c4f2a6f963b0a9b492e895a0d7b557
[622] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.14..v0.2.15
[623] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f0fdeb4df51369320c4a862ac2fb8da17630a566

19.235 0.2.14[624] - 2025-03-08

19.235.1 🐛 Bug Fixes

- *(ruff)* Use extend-exclude, not exclude - (028d056[625])

19.236 0.2.13[626] - 2025-03-08

19.236.1 🐛 Bug Fixes

- *(setup_dev)* .venv issue on copier update - (74f611a[627])

19.237 0.2.12[628] - 2025-03-08

19.237.1 🐛 Bug Fixes

- *(setup_dev)* Warn - (aadfe67[629])

19.238 0.2.10[630] - 2025-03-08

19.238.1 📚 Documentation

- Mypy-checked badge - (3a8140e[631])

19.239 0.2.9[632] - 2025-03-07

19.239.1 📚 Documentation

- Broken image - (0bce0e0[633])

19.240 0.2.8[634] - 2025-03-07

19.240.1 🐛 Bug Fixes

- *(logo)* Don't copy if already existing - (64acb29[635])

19.241 0.2.7[636] - 2025-03-07

19.241.1 🎨 Styling

- Missing return in docstring - (ab7dc70[637])

[624] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.13..v0.2.14
[625] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/028d056511a158dd7dce56fc14d4230137b7bd8f
[626] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.12..v0.2.13
[627] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/74f611aa752c7bf281d0e692710c05091ad424fd
[628] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.11..v0.2.12
[629] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/aadfe67aac69334ef5682abbbf863f0936e03aee
[630] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.9..v0.2.10
[631] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/3a8140eae9d89fb76e26e4ec705ed83b14e5ac73
[632] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.8..v0.2.9
[633] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/0bce0e082948a386dcb28f3050a9b6d070606be2
[634] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.7..v0.2.8
[635] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/64acb292abe6f41b5d20eae1182f436aa0854dbd
[636] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.6..v0.2.7
[637] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ab7dc708ab5e1ca767cbb0fdfab7f0ffe563532c

19.242 0.2.6[638] - 2025-03-07

19.242.1 🐛 Bug Fixes

- Various - (b946b87[639])

19.243 0.2.5[640] - 2025-03-07

19.243.1 ⛰️ Features

- *(mypy)* Introduce static type checker mypy - (ace8dc2[641])

19.244 0.2.4[642] - 2025-03-07

19.244.1 ⛰️ Features

- *(mypy)* Introduce static type checker mypy - (af56e82[643])

19.244.2 🎨 Styling

- Remove commented out code - (246feaa[644])

19.245 0.2.3[645] - 2025-03-03

19.245.1 ⛰️ Features

- *(copier)* Introduce tasks - (db540bc[646])

19.246 0.2.2[647] - 2025-03-02

19.246.1 📚 Documentation

- Update - (ae71c31[648])

19.247 0.2.1[649] - 2025-03-02

19.247.1 📚 Documentation

- Update - (e718c4c[650])

[638] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.5..v0.2.6
[639] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/b946b87f951e29c3c82a5847e0ca747d9109e0c1
[640] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.4..v0.2.5
[641] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ace8dc241c44edfe5ef8e9dbe4f1db9dbc1b70af
[642] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.3..v0.2.4
[643] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/af56e82581ee5bc157f44e181214751345a4bb52
[644] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/246feaae1287037b78344d3430eff62b147628f4
[645] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.2..v0.2.3
[646] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/db540bc2907710409c2a23e8a704804bc8e7edda
[647] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.1..v0.2.2
[648] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ae71c31c917a7439dc24fe9b86c48e38cf1d4c29
[649] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.2.0..v0.2.1
[650] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/e718c4ca41f566e9668566a3ac8cb92b93d93904

19.248 0.2.0[651] - 2025-03-02

19.248.1 Documentation

- Start to document the template and setup process - (d37c39c[652])

19.249 0.1.4[653] - 2025-03-02

19.249.1 Features

- *(notebooks)* Introduce marimo - (5d8eb68[654])

19.250 0.1.3[655] - 2025-03-02

19.250.1 Miscellaneous Tasks

- Other - (630b5b6[656])

19.251 0.1.2[657] - 2025-03-02

19.251.1 Documentation

- On template - (48bdcbe[658])

19.252 0.1.1[659] - 2025-03-02

19.252.1 Miscellaneous Tasks

- Arch - (2cfbe81[660])

19.253 0.1.0[661] - 2025-03-02

19.253.1 Miscellaneous Tasks

- Fix in arch for docker images - (be8de5b[662])

19.254 [0.0.2] - 2025-03-02

19.254.1 Features

- Various - (5b74351[663])

[651] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.1.4..v0.2.0
[652] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d37c39c518736301aadf1192f9a48c4cfd1ded6e
[653] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.1.3..v0.1.4
[654] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5d8eb687da96d5111130f67079cc8cbee06ca20e
[655] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.1.2..v0.1.3
[656] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/630b5b6ca7c2a388c7d1425301f88f0da6e468ad
[657] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.1.1..v0.1.2
[658] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/48bdcbe863942bc7dd03bc8e71a50cae968c010c
[659] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.1.0..v0.1.1
[660] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/2cfbe81574646e3dc5c3fa6bf07292d9bf04e1b9
[661] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/compare/v0.0.2..v0.1.0
[662] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/be8de5b1d13587017cdb5b7ecc1bba63ea8245fb
[663] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/5b74351e71e2ca6cb7305bcabdbe802df55c4bae

- Spike - (21607c9[664])

19.254.2 🐛 Bug Fixes

- *(Docker)* Runnability - (164ab1f[665])
- Initial semver - (9f6fc12[666])
- Test - (52faa74[667])
- Various - (f99445f[668])
- Chugging along - (d59fa54[669])

19.254.3 🚜 Refactor

- *(gitignore)* Section header - (4ec3972[670])
- .gitignore - (ed7d503[671])

19.254.4 ⚙ Miscellaneous Tasks

- *(SonarQube)* Wire - (be10859[672])
- Deps - (99fba1c[673])
- Clean post self-updating - (4a8615a[674])
- Act - (650a1ba[675])

19.255 New Contributors ❤

- @helmut-hoffer-von-ankershoffen made their first contribution

[664] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/21607c955cd789dbee6171d287e21f45f039c392
[665] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/164ab1fd7ec517d52587cf7f27f0051bdb6ce319
[666] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/9f6fc125c0e24cc0e31580de94db8beb926c8e36
[667] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/52faa74b2d448b13dc12a4d8f706b34334643d00
[668] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/f99445f85b346e0eb69a13c98c2ed311fd4cfafe
[669] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/d59fa548abc38e88a4605f9588d57bbf9d70d1dc
[670] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4ec39725978a1e2a3a6138136313365a7f7ee792
[671] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/ed7d503f3c8b6ff0be55b149e1a02729b4097629
[672] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/be108592780cc12c3e6784737a70921c8b65c966
[673] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/99fba1cba195dbbf5bb14c617c1a3bd4124771c5
[674] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/4a8615a9a33d61a7b71d7a8ceff2695de6bf94bd
[675] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/commit/650a1bac5a76ebafded4fda7f98e6e81cc7a8426

CHAPTER

TWENTY

SECURITY POLICY

20.1 Reporting Security Issues

If you discover a security vulnerability in OE Python Template, please report it here[676].

We take all security reports seriously. Upon receiving a security report, we will:

1. Confirm receipt of the vulnerability report
2. Investigate the issue
3. Work on a fix
4. Release a security update

20.2 Supported Versions

We currently provide security updates for the latest minor version.

20.3 Automated Security Analysis

OE Python Template employs several automated tools to continuously monitor and improve security:

20.3.1 1. Vulnerability Scanning

a. **`GitHub Dependabot <https://github.com/dependabot>`__**: Monitors dependencies for vulnerabilities pre and post release on GitHub. Dependendabot alerts[677] published.

b. **`Renovate <https://www.mend.io/renovate/>`__**: Monitors dependencies for vulnerabilities pre and post release on GitHub. Dependency Dashboard[678] published.

c. **`pip-audit <https://pypi.org/project/pip-audit/>`__**: Pre commit to GitHub scans Python dependencies for known vulnerabilities using data from the Python Advisory Database[679]. `vulnerabilities.json` published per release[680].

d. **`trivy <https://trivy.dev/latest/>`__**: Pre commit to GitHub scans Python dependencies for known vulnerabilities using data from GitHub Advisory Database[681] and OSV.dev[682]. `sbom.spdx` published per release[683].

[676] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/security/advisories/new
[677] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/security/dependabot
[678] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/issues?q=is%3Aissue%20state%3Aopen%20Dependency%20Dashboard
[679] https://github.com/pypa/advisory-database
[680] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/releases
[681] https://github.com/advisories?query=ecosystem%3Apip
[682] https://osv.dev/list?q=&ecosystem=PyPI
[683] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/releases

20.3.2 2. License Compliance Checks and Software Bill of Materials (SBOM)

a. **`pip-licenses <https://pypi.org/project/pip-licenses/>`_**: Inspects and matches the licenses of all dependencies with allow list to ensure compliance with licensing requirements and avoid using components with problematic licenses. `licenses.csv`, `licenses.json` and `licenses_grouped.json` published per release[684]. a. **`cyclonedx-py <https://github.com/CycloneDX/cyclonedx-python>`_**: Generates Software Bill of Materials (SBOM) in CycloneDX[685] format, listing all components and dependencies used in the project. `sbom.json` published per release[686]. d. **`trivy <https://trivy.dev/latest/>`_**: Generates Software Bill of Materials (SBOM) in SPDX[687] format, listing all components and dependencies used in the project. `sbom.spdx` published per release[688].

20.3.3 3. Static Code Analysis

a. **`GitHub CodeQL <https://codeql.github.com/>`_**: Analyzes code for common vulnerabilities and coding errors using GitHub's semantic code analysis engine. Code scanning results[689] published.

b. **`SonarQube <https://www.sonarsource.com/products/sonarcloud/>`_**: Performs comprehensive static code analysis to detect code quality issues, security vulnerabilities, and bugs. Security hotspots[690] published.

20.3.4 4. Secret Detection

a. **`GitHub Secret scanning <https://docs.github.com/en/code-security/secret-scanning/introduction/`** Automatically scans for secrets in the codebase and alerts if any are found. Secret scanning alerts[691] published.

b. **`Yelp/detect-secrets <https://github.com/Yelp/detect-secrets>`_**: Pre-commit hook and automated scanning to prevent accidental inclusion of secrets or sensitive information in commits. Pre-Commit hook[692] published.

20.4 Security Best Practices

We follow these security best practices:

1. Regular dependency updates
2. Comprehensive test coverage
3. Code review process for changes by external contributors
4. Automated CI/CD pipelines including security checks
5. Adherence to Python security best practices

We promote security awareness among contributors and users:

1. We indicate security as a priority in our code style guide, to be followed by human and agentic contributors as mandatory
2. We publish our security posture in SECURITY.md (this document), encouraring users to report vulnerabilities.

[684] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/releases
[685] https://cyclonedx.org/
[686] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/releases
[687] https://spdx.dev/
[688] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/releases
[689] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/security/code-scanning
[690] https://sonarcloud.io/project/security_hotspots?id=helmut-hoffer-von-ankershoffen_oe-python-template
[691] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/security/secret-scanning
[692] https://github.com/helmut-hoffer-von-ankershoffen/oe-python-template/blob/main/.pre-commit-config.yaml

20.5 Security Compliance

For questions about security compliance or for more details about our security practices, please contact helmuthva@gmail.com.

CHAPTER

TWENTYONE

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CHAPTER

TWENTYTWO

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22.1 CacheControl (0.14.2) - Apache Software License

httplib2 caching for requests

- URL: https://pypi.org/project/CacheControl/
- Author(s): Eric Larson ericlarson@ionrock.com, Frost Ming me@frostming.com, William Woodruff william@yossarian.net

22.1.1 License Text

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22.2 DataProperty (1.1.0) - MIT License

Python library for extract property from data.

- URL: https://github.com/thombashi/DataProperty
- Author(s): Tsuyoshi Hombashi
- Maintainer(s): Tsuyoshi Hombashi

22.2.1 License Text

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22.3 Deprecated (1.2.18) - MIT License

Python @deprecated decorator to deprecate old python classes, functions or methods.

- URL: https://github.com/laurent-laporte-pro/deprecated
- Author(s): Laurent LAPORTE

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22.4 GitPython (3.1.44) - BSD License

GitPython is a Python library used to interact with Git repositories

- URL: https://github.com/gitpython-developers/GitPython

- Author(s): Sebastian Thiel, Michael Trier

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22.5 Jinja2 (3.1.6) - BSD License

A very fast and expressive template engine.

- URL: https://github.com/pallets/jinja/
- Maintainer(s): Pallets contact@palletsprojects.com

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22.6 Markdown (3.8) - UNKNOWN

Python implementation of John Gruber's Markdown.

- URL: https://Python-Markdown.github.io/
- Author(s): Manfred Stienstra, Yuri Takhteyev
- Maintainer(s): Isaac Muse

22.6.1 License Text

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22.7 MarkupSafe (3.0.2) - BSD License

Safely add untrusted strings to HTML/XML markup.

- URL: https://github.com/pallets/markupsafe/
- Maintainer(s): Pallets contact@palletsprojects.com

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22.8 PySocks (1.7.1) - BSD

A Python SOCKS client module. See https://github.com/Anorov/PySocks for more information.

- URL: https://github.com/Anorov/PySocks
- Author(s): Anorov

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22.9 PyYAML (6.0.2) - MIT License

YAML parser and emitter for Python

- URL: https://pyyaml.org/
- Author(s): Kirill Simonov

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Pygments is a syntax highlighting package written in Python.

- URL: https://pygments.org
- Author(s): Georg Brandl georg@python.org
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22.11 Send2Trash (1.8.3) - BSD License

Send file to trash natively under Mac OS X, Windows and Linux

- URL: https://github.com/arsenetar/send2trash
- Author(s): Andrew Senetar

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22.12 Sphinx (8.2.3) - UNKNOWN

Python documentation generator

- URL: https://www.sphinx-doc.org/
- Author(s): Adam Turner aa-turner@users.noreply.github.com, Georg Brandl georg@python.org

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22.13 aiofiles (24.1.0) - Apache Software License

File support for asyncio.

- URL: https://github.com/Tinche/aiofiles
- Author(s): Tin Tvrtkovic tinchester@gmail.com

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22.14 aiohappyeyeballs (2.6.1) - Python Software Foundation License

Happy Eyeballs for asyncio

- URL: https://github.com/aio-libs/aiohappyeyeballs
- Author(s): J. Nick Koston

22.14.1 License Text

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
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    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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Thanks to the many outside volunteers who have worked under Guido's
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Async http client/server framework (asyncio)

- URL: https://github.com/aio-libs/aiohttp
- Maintainer(s): aiohttp team team@aiohttp.org

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A light, configurable Sphinx theme

- URL: https://alabaster.readthedocs.io/
- Maintainer(s): Adam Turner

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- URL: https://github.com/vega/altair
- Author(s): Vega-Altair Contributors

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Reusable constraint types to use with typing.Annotated

- URL: https://github.com/annotated-types/annotated-types
- Author(s): Adrian Garcia Badaracco 1755071+adriangb@users.noreply.github.com, Samuel Colvin s@muelcolvin.com, Zac Hatfield-Dodds zac@zhd.dev

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22.20 anyio (4.9.0) - MIT License

High level compatibility layer for multiple asynchronous event loop implementations

- URL: https://anyio.readthedocs.io/en/stable/versionhistory.html
- Author(s): Alex Grönholm alex.gronholm@nextday.fi

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22.21 apeye (1.4.1) - GNU Lesser General Public License v3 or later (LGPLv3+)

Handy tools for working with URLs and APIs.

- URL: https://github.com/domdfcoding/apeye
- Author(s): Dominic Davis-Foster dominic@davis-foster.co.uk

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22.22 apeye-core (1.1.5) - BSD License

Core (offline) functionality for the apeye library.

- URL: https://github.com/domdfcoding/apeye-core
- Author(s): Dominic Davis-Foster dominic@davis-foster.co.uk

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22.23 appnope (0.1.4) - BSD License

Disable App Nap on macOS >= 10.9

- URL: http://github.com/minrk/appnope
- Author(s): Min Ragan-Kelley

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22.24 argcomplete (3.6.2) - Apache Software License

Bash tab completion for argparse

- URL: https://github.com/kislyuk/argcomplete
- Author(s): Andrey Kislyuk
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22.25 argon2-cffi (23.1.0) - MIT License

Argon2 for Python

- URL: https://github.com/hynek/argon2-cffi/blob/main/CHANGELOG.md
- Author(s): Hynek Schlawack hs@ox.cx

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22.26 argon2-cffi-bindings (21.2.0) - MIT License

Low-level CFFI bindings for Argon2

- URL: https://github.com/hynek/argon2-cffi-bindings
- Author(s): Hynek Schlawack
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22.27 arrow (1.3.0) - Apache Software License

Better dates & times for Python

- URL: https://github.com/arrow-py/arrow
- Author(s): Chris Smith crsmithdev@gmail.com

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22.28 asgiref (3.8.1) - BSD License

ASGI specs, helper code, and adapters

- URL: https://github.com/django/asgiref/
- Author(s): Django Software Foundation

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22.29 asttokens (3.0.0) - Apache 2.0

Annotate AST trees with source code positions

- URL: https://github.com/gristlabs/asttokens
- Author(s): Dmitry Sagalovskiy, Grist Labs

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22.30 async-lru (2.0.5) - MIT License

Simple LRU cache for asyncio

- URL: https://github.com/aio-libs/async-lru
- Maintainer(s): aiohttp team team@aiohttp.org

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22.31 attrs (25.3.0) - UNKNOWN

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- URL: https://www.attrs.org/en/stable/changelog.html
- Author(s): Hynek Schlawack hs@ox.cx

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22.32 autodoc_pydantic (2.2.0) - MIT License

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- Author(s): mansenfranzen

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- URL: https://github.com/Chilipp/autodocsumm
- Author(s): "Philipp S. Sommer" philipp.sommer@hereon.de

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Internationalization utilities

- URL: https://babel.pocoo.org/
- Author(s): Armin Ronacher
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- URL: https://github.com/jab/bidict
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22.37 bleach (6.2.0) - Apache Software License

An easy safelist-based HTML-sanitizing tool.

- URL: https://github.com/mozilla/bleach
- Maintainer(s): Will Kahn-Greene

22.37.1 License Text

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22.38 blinker (1.9.0) - MIT License

Fast, simple object-to-object and broadcast signaling

- URL: https://github.com/pallets-eco/blinker/
- Author(s): Jason Kirtland
- Maintainer(s): Pallets Ecosystem contact@palletsprojects.com

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22.39 boolean.py (5.0) - BSD-2-Clause

Define boolean algebras, create and parse boolean expressions and create custom boolean DSL.

- URL: https://github.com/bastikr/boolean.py
- Author(s): Sebastian Kraemer

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22.40 bottle (0.13.2) - MIT License

Fast and simple WSGI-framework for small web-applications.

- URL: http://bottlepy.org/
- Author(s): Marcel Hellkamp

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22.41 bracex (2.5.post1) - MIT License

Bash style brace expander.

- URL: https://github.com/facelessuser/bracex
- Author(s): Isaac Muse Isaac.Muse@gmail.com

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22.42 bump-my-version (1.1.2) - MIT License

Version bump your Python project

- URL: https://github.com/callowayproject/bump-my-version
- Author(s): Corey Oordt coreyoordt@gmail.com

22.42.1 License Text

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22.43 cachetools (5.5.2) - MIT License

Extensible memoizing collections and decorators

- URL: https://github.com/tkem/cachetools/
- Author(s): Thomas Kemmer

22.43.1 License Text

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22.44 certifi (2025.1.31) - Mozilla Public License 2.0 (MPL 2.0)

Python package for providing Mozilla's CA Bundle.

- URL: https://github.com/certifi/python-certifi
- Author(s): Kenneth Reitz

22.44.1 License Text

```
This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt).  This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
```

22.45 cffi (1.17.1) - MIT License

Foreign Function Interface for Python calling C code.

- URL: http://cffi.readthedocs.org
- Author(s): Armin Rigo, Maciej Fijalkowski

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22.46 cfgv (3.4.0) - MIT License

Validate configuration and produce human readable error messages.

- URL: https://github.com/asottile/cfgv
- Author(s): Anthony Sottile

22.46.1 License Text

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22.47 chardet (5.2.0) - GNU Lesser General Public License v2 or later (LGPLv2+)

Universal encoding detector for Python 3

- URL: https://github.com/chardet/chardet
- Author(s): Mark Pilgrim

- Maintainer(s): Daniel Blanchard

22.47.1 License Text

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22.48 charset-normalizer (3.4.1) - MIT License

The Real First Universal Charset Detector. Open, modern and actively maintained alternative to Chardet.

- URL: https://github.com/jawah/charset_normalizer/blob/master/CHANGELOG.md
- Author(s): "Ahmed R. TAHRI" tahri.ahmed@proton.me
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22.49 click (8.1.8) - BSD License

Composable command line interface toolkit

- URL: https://github.com/pallets/click/
- Maintainer(s): Pallets contact@palletsprojects.com

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22.50 cloudpickle (3.1.1) - BSD License

Pickler class to extend the standard pickle.Pickler functionality

- URL: https://github.com/cloudpipe/cloudpickle
- Author(s): The cloudpickle developer team

22.51 colorama (0.4.6) - BSD License

Cross-platform colored terminal text.

- URL: https://github.com/tartley/colorama
- Author(s): Jonathan Hartley tartley@tartley.com

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22.52 colorlog (6.9.0) - MIT License

Add colours to the output of Python's logging module.

- URL: https://github.com/borntyping/python-colorlog
- Author(s): Sam Clements

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22.53 comm (0.2.2) - BSD License

Jupyter Python Comm implementation, for usage in ipykernel, xeus-python etc.

- URL: https://github.com/ipython/comm
- Author(s): Jupyter contributors

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22.54 contourpy (1.3.2) - BSD License

Python library for calculating contours of 2D quadrilateral grids

- URL: https://github.com/contourpy/contourpy
- Author(s): Ian Thomas ianthomas23@gmail.com

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22.55 coverage (7.8.0) - Apache-2.0

Code coverage measurement for Python

- URL: https://github.com/nedbat/coveragepy
- Author(s): Ned Batchelder and 237 others

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22.56 cssutils (2.11.1) - GNU Library or Lesser General Public License (LGPL)

A CSS Cascading Style Sheets library for Python

- URL: https://github.com/jaraco/cssutils
- Author(s): Christof Hoeke c@cthedot.de
- Maintainer(s): "Jason R. Coombs" jaraco@jaraco.com

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- URL: https://matplotlib.org/cycler/
- Author(s): Thomas A Caswell matplotlib-users@python.org

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- URL: https://github.com/CycloneDX/cyclonedx-python/#readme
- Author(s): Jan Kowalleck
- Maintainer(s): Jan Kowalleck

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22.59 cyclonedx-py (1.0.1) - UNKNOWN

Alias for package 'cyclonedx-bom'

- URL: https://github.com/CycloneDX/cyclonedx-python/#package_aliases/cyclonedx-py

22.60 cyclonedx-python-lib (9.1.0) - Apache Software License

Python library for CycloneDX

- URL: https://github.com/CycloneDX/cyclonedx-python-lib/#readme
- Author(s): Paul Horton
- Maintainer(s): Jan Kowalleck

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22.61 debugpy (1.8.14) - MIT License

An implementation of the Debug Adapter Protocol for Python

- URL: https://aka.ms/debugpy
- Author(s): Microsoft Corporation

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- URL: https://github.com/tiran/defusedxml
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22.64 dependency-groups (1.3.0) - UNKNOWN

A tool for resolving PEP 735 Dependency Group data

- URL: https://github.com/sirosen/dependency-groups
- Author(s): Stephen Rosen sirosen0@gmail.com

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22.65 detect-secrets (1.5.0) - Apache Software License

Tool for detecting secrets in the codebase

- URL: https://github.com/Yelp/detect-secrets
- Author(s): Yelp, Inc.

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22.66 dict2css (0.3.0.post1) - MIT License

A μ-library for constructing cascading style sheets from Python dictionaries.

- URL: https://github.com/sphinx-toolbox/dict2css
- Author(s): Dominic Davis-Foster dominic@davis-foster.co.uk

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22.67 distlib (0.3.9) - Python Software Foundation License

Distribution utilities

- URL: https://github.com/pypa/distlib
- Author(s): Vinay Sajip

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A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
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principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com).  In 2001, the Python Software
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All Python releases are Open Source (see http://www.opensource.org for
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    Release         Derived     Year        Owner       GPL-
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    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.2             2.1.1       2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2.1           2.2         2002        PSF         yes
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    2.2.3           2.2.2       2003        PSF         yes
    2.3             2.2.2       2002-2003   PSF         yes
    2.3.1           2.3         2002-2003   PSF         yes
    2.3.2           2.3.1       2002-2003   PSF         yes
    2.3.3           2.3.2       2002-2003   PSF         yes
    2.3.4           2.3.3       2004        PSF         yes
    2.3.5           2.3.4       2005        PSF         yes
    2.4             2.3         2004        PSF         yes
    2.4.1           2.4         2005        PSF         yes
    2.4.2           2.4.1       2005        PSF         yes
    2.4.3           2.4.2       2006        PSF         yes
    2.4.4           2.4.3       2006        PSF         yes
    2.5             2.4         2006        PSF         yes
    2.5.1           2.5         2007        PSF         yes
    2.5.2           2.5.1       2008        PSF         yes
    2.5.3           2.5.2       2008        PSF         yes
    2.6             2.5         2008        PSF         yes
    2.6.1           2.6         2008        PSF         yes
    2.6.2           2.6.1       2009        PSF         yes
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    2.6.3           2.6.2       2009        PSF         yes
    2.6.4           2.6.3       2009        PSF         yes
    2.6.5           2.6.4       2010        PSF         yes
    3.0             2.6         2008        PSF         yes
    3.0.1           3.0         2009        PSF         yes
    3.1             3.0.1       2009        PSF         yes
    3.1.1           3.1         2009        PSF         yes
    3.1.2           3.1         2010        PSF         yes
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- URL: https://www.dnspython.org
- Author(s): Bob Halley halley@dnspython.org

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- URL: https://docutils.sourceforge.io
- Author(s): David Goodger goodger@python.org
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22.70 domdf_python_tools (3.10.0) - MIT License

Helpful functions for Python

- URL: https://github.com/domdfcoding/domdf_python_tools
- Author(s): Dominic Davis-Foster dominic@davis-foster.co.uk

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A robust email address syntax and deliverability validation library.

- URL: https://github.com/JoshData/python-email-validator
- Author(s): Joshua Tauberer

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22.72 enum-tools (0.13.0) - GNU Lesser General Public License v3 or later (LGPLv3+)

Tools to expand Python's enum module.

- URL: https://github.com/domdfcoding/enum_tools
- Author(s): Dominic Davis-Foster dominic@davis-foster.co.uk

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execnet: rapid multi-Python deployment

- URL: https://execnet.readthedocs.io/en/latest/
- Author(s): holger krekel and others

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Get the currently executing AST node of a frame, and other information

- URL: https://github.com/alexmojaki/executing
- Author(s): Alex Hall

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22.75 fastapi (0.115.12) - MIT License

FastAPI framework, high performance, easy to learn, fast to code, ready for production

- URL: https://github.com/fastapi/fastapi
- Author(s): =?utf-8?q?Sebasti=C3=A1n_Ram=C3=ADrez?= tiangolo@gmail.com

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22.76 fastapi-cli (0.0.7) - MIT License

Run and manage FastAPI apps from the command line with FastAPI CLI. 🚀

- URL: https://github.com/fastapi/fastapi-cli

- Author(s): =?utf-8?q?Sebasti=C3=A1n_Ram=C3=ADrez?= tiangolo@gmail.com

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Fastest Python implementation of JSON schema

- URL: https://github.com/horejsek/python-fastjsonschema
- Author(s): Michal Horejsek

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- URL: https://github.com/tox-dev/py-filelock
- Maintainer(s): Bernát Gábor gaborjbernat@gmail.com

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22.79 fonttools (4.57.0) - MIT License

Tools to manipulate font files

- URL: http://github.com/fonttools/fonttools
- Author(s): Just van Rossum
- Maintainer(s): Behdad Esfahbod

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22.81 frozenlist (1.6.0) - Apache-2.0

A list-like structure which implements collections.abc.MutableSequence

- URL: https://github.com/aio-libs/frozenlist
- Maintainer(s): aiohttp team team@aiohttp.org

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22.85 googleapis-common-protos (1.70.0) - Apache Software License

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- URL: https://github.com/googleapis/google-cloud-python/tree/main/packages/googleapis-common-protos
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22.86 h11 (0.16.0) - MIT License

A pure-Python, bring-your-own-I/O implementation of HTTP/1.1

- URL: https://github.com/python-hyper/h11
- Author(s): Nathaniel J. Smith

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22.87 html5lib (1.1) - MIT License

HTML parser based on the WHATWG HTML specification

- URL: https://github.com/html5lib/html5lib-python
- Maintainer(s): James Graham

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22.88 httpcore (1.0.8) - BSD License

A minimal low-level HTTP client.

- URL: https://www.encode.io/httpcore/
- Author(s): Tom Christie tom@tomchristie.com

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22.89 httptools (0.6.4) - MIT License

A collection of framework independent HTTP protocol utils.

- URL: https://github.com/MagicStack/httptools
- Author(s): Yury Selivanov

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22.90 httpx (0.28.1) - BSD License

The next generation HTTP client.

- URL: https://github.com/encode/httpx
- Author(s): Tom Christie tom@tomchristie.com

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22.91 identify (2.6.10) - MIT

File identification library for Python

- URL: https://github.com/pre-commit/identify
- Author(s): Chris Kuehl

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22.92 idna (3.10) - BSD License

Internationalized Domain Names in Applications (IDNA)

- URL: https://github.com/kjd/idna
- Author(s): Kim Davies kim+pypi@gumleaf.org

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22.93 ifaddr (0.2.0) - MIT License

Cross-platform network interface and IP address enumeration library

- URL: https://github.com/pydron/ifaddr
- Author(s): Stefan C. Mueller

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22.94 imagesize (1.4.1) - MIT License

Getting image size from png/jpeg/jpeg2000/gif file

- URL: https://github.com/shibukawa/imagesize_py
- Author(s): Yoshiki Shibukawa

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22.95 importlib_metadata (8.6.1) - Apache Software License

Read metadata from Python packages

- URL: https://github.com/python/importlib_metadata
- Author(s): “Jason R. Coombs” jaraco@jaraco.com

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22.96 iniconfig (2.1.0) - MIT License

brain-dead simple config-ini parsing

- URL: https://github.com/pytest-dev/iniconfig
- Author(s): Ronny Pfannschmidt opensource@ronnypfannschmidt.de, Holger Krekel holger.krekel@gmail.com

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- URL: https://ipython.org
- Author(s): IPython Development Team ipython-dev@scipy.org

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- URL: http://jupyter.org
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22.101 isoduration (20.11.0) - ISC License (ISCL)

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- URL: https://github.com/bolsote/isoduration
- Author(s): Víctor Muñoz

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- URL: https://github.com/pallets/itsdangerous/
- Maintainer(s): Pallets contact@palletsprojects.com

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22.103 jedi (0.19.2) - MIT License

An autocompletion tool for Python that can be used for text editors.

- URL: https://github.com/davidhalter/jedi
- Author(s): David Halter
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22.104 json5 (0.12.0) - Apache Software License

A Python implementation of the JSON5 data format.

- URL: https://github.com/dpranke/pyjson5
- Author(s): Dirk Pranke dpranke@chromium.org

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Identify specific nodes in a JSON document (RFC 6901)

- URL: https://github.com/stefankoegl/python-json-pointer
- Author(s): Stefan Kögl

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An implementation of JSON Schema validation for Python

- URL: https://github.com/python-jsonschema/jsonschema
- Author(s): Julian Berman Julian+jsonschema@GrayVines.com

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- URL: https://github.com/python-jsonschema/jsonschema-specifications
- Author(s): Julian Berman Julian+jsonschema-specifications@GrayVines.com

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- URL: https://jupyter.org
- Author(s): Jupyter Development Team

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- Author(s): Jupyter Development Team jupyter@googlegroups.com

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Multi-Language Server WebSocket proxy for Jupyter Notebook/Lab server

- URL: https://github.com/jupyter-lsp/jupyterlab-lsp/issues
- Author(s): jupyter-lsp Contributors

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Jupyter protocol implementation and client libraries

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- Author(s): Jupyter Development Team jupyter@googlegroups.com

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Jupyter core package. A base package on which Jupyter projects rely.

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The backend—i.e. core services, APIs, and REST endpoints—to Jupyter web applications.

- URL: https://jupyter-server.readthedocs.io
- Author(s): Jupyter Development Team jupyter@googlegroups.com

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A Jupyter Server Extension Providing Terminals.

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JupyterLab computational environment

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Pygments theme using JupyterLab CSS variables

- URL: https://github.com/jupyterlab/jupyterlab_pygments
- Author(s): Jupyter Development Team jupyter@googlegroups.com

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A set of server components for JupyterLab and JupyterLab like applications.

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- Author(s): Jupyter Development Team jupyter@googlegroups.com

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Jupyter interactive widgets for JupyterLab

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A fast implementation of the Cassowary constraint solver

- URL: https://github.com/nucleic/kiwi
- Author(s): The Nucleic Development Team sccolbert@gmail.com
- Maintainer(s): "Matthieu C. Dartiailh" m.dartiailh@gmail.com

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Chris Colbert began the Kiwi project in December 2013 in an effort to
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The Nucleic Development Team is the set of all contributors to the Nucleic
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- URL: https://logfire.pydantic.dev/
- Author(s): Pydantic Team engineering@pydantic.dev, Samuel Colvin samuel@pydantic.dev, Hasan Ramezani hasan@pydantic.dev, Adrian Garcia Badaracco adrian@pydantic.dev, David Montague david@pydantic.dev, Marcelo Trylesinski marcelo@pydantic.dev, David Hewitt david.hewitt@pydantic.dev, Alex Hall alex@pydantic.dev

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Powerful and Pythonic XML processing library combining libxml2/libxslt with the ElementTree API.

- URL: https://lxml.de/
- Author(s): lxml dev team
- Maintainer(s): lxml dev team

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A library for making reactive notebooks and apps

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A fast and complete Python implementation of Markdown

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- URL: https://github.com/ipython/matplotlib-inline
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22.129 mbstrdecoder (1.1.4) - MIT License

mbstrdecoder is a Python library for multi-byte character string decoder

- URL: https://github.com/thombashi/mbstrdecoder
- Author(s): Tsuyoshi Hombashi

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22.130 mdurl (0.1.2) - MIT License

Markdown URL utilities

- URL: https://github.com/executablebooks/mdurl
- Author(s): Taneli Hukkinen hukkin@users.noreply.github.com

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22.131 mistune (3.1.3) - BSD License

A sane and fast Markdown parser with useful plugins and renderers

- URL: https://github.com/lepture/mistune
- Author(s): Hsiaoming Yang me@lepture.com

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22.132 more-itertools (10.6.0) - MIT License

More routines for operating on iterables, beyond itertools

- URL: https://github.com/more-itertools/more-itertools
- Author(s): Erik Rose erikrose@grinchcentral.com

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22.133 msgpack (1.1.0) - Apache Software License

MessagePack serializer

- URL: https://msgpack.org/
- Author(s): Inada Naoki songofacandy@gmail.com

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22.134 multidict (6.4.3) - Apache Software License

multidict implementation

- URL: https://github.com/aio-libs/multidict
- Author(s): Andrew Svetlov

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22.135 mypy (1.15.0) - MIT License

Optional static typing for Python

- URL: https://www.mypy-lang.org/
- Author(s): Jukka Lehtosalo jukka.lehtosalo@iki.fi

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Type system extensions for programs checked with the mypy type checker.

- URL: https://github.com/python/mypy_extensions
- Author(s): The mypy developers

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22.137 narwhals (1.35.0) - MIT License

Extremely lightweight compatibility layer between dataframe libraries

- URL: https://github.com/narwhals-dev/narwhals
- Author(s): Marco Gorelli 33491632+MarcoGorelli@users.noreply.github.com

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Simple yet flexible natural sorting in Python.

- URL: https://github.com/SethMMorton/natsort
- Author(s): Seth M. Morton

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A client library for executing notebooks. Formerly nbconvert's ExecutePreprocessor.

- URL: https://jupyter.org
- Author(s): Jupyter Development Team jupyter@googlegroups.com

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22.142 nest-asyncio (1.6.0) - BSD License

Patch asyncio to allow nested event loops

- URL: https://github.com/erdewit/nest_asyncio
- Author(s): Ewald R. de Wit

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22.143 nicegui (2.15.0) - MIT License

Create web-based user interfaces with Python. The nice way.

- URL: https://github.com/zauberzeug/nicegui
- Author(s): Zauberzeug GmbH

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22.144 nodeenv (1.9.1) - BSD License

Node.js virtual environment builder

- URL: https://github.com/ekalinin/nodeenv
- Author(s): Eugene Kalinin

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Jupyter Notebook - A web-based notebook environment for interactive computing

- URL: https://github.com/jupyter/notebook
- Author(s): Jupyter Development Team jupyter@googlegroups.com

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22.146 notebook_shim (0.2.4) - BSD License

A shim layer for notebook traits and config

- URL: UNKNOWN
- Author(s): Jupyter Development Team jupyter@googlegroups.com

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Flexible test automation.

- URL: https://github.com/wntrblm/nox
- Author(s): Alethea Katherine Flowers me@thea.codes

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22.148 numpy (2.2.5) - BSD License

Fundamental package for array computing in Python

- URL: https://numpy.org
- Author(s): Travis E. Oliphant et al.
- Maintainer(s): NumPy Developers numpy-discussion@python.org

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gratis or for a fee, you must pass on to the recipients the same
freedoms that you received.  You must make sure that they, too, receive
or can get the source code.  And you must show them these terms so they
know their rights.

  Developers that use the GNU GPL protect your rights with two steps:
(1) assert copyright on the software, and (2) offer you this License
giving you legal permission to copy, distribute and/or modify it.

  For the developers' and authors' protection, the GPL clearly explains
that there is no warranty for this free software.  For both users' and
authors' sake, the GPL requires that modified versions be marked as
changed, so that their problems will not be attributed erroneously to
authors of previous versions.

  Some devices are designed to deny users access to install or run
modified versions of the software inside them, although the manufacturer
can do so.  This is fundamentally incompatible with the aim of
protecting users' freedom to change the software.  The systematic
pattern of such abuse occurs in the area of products for individuals to
use, which is precisely where it is most unacceptable.  Therefore, we
have designed this version of the GPL to prohibit the practice for those
products.  If such problems arise substantially in other domains, we
stand ready to extend this provision to those domains in future versions
of the GPL, as needed to protect the freedom of users.

  Finally, every program is threatened constantly by software patents.
States should not allow patents to restrict development and use of
software on general-purpose computers, but in those that do, we wish to
avoid the special danger that patents applied to a free program could
make it effectively proprietary.  To prevent this, the GPL assures that
patents cannot be used to render the program non-free.

  The precise terms and conditions for copying, distribution and
modification follow.

                       TERMS AND CONDITIONS

  0. Definitions.

  "This License" refers to version 3 of the GNU General Public License.

  "Copyright" also means copyright-like laws that apply to other kinds of
works, such as semiconductor masks.

  "The Program" refers to any copyrightable work licensed under this
License.  Each licensee is addressed as "you".  "Licensees" and
"recipients" may be individuals or organizations.

  To "modify" a work means to copy from or adapt all or part of the work
in a fashion requiring copyright permission, other than the making of an
exact copy.  The resulting work is called a "modified version" of the
earlier work or a work "based on" the earlier work.
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  A "covered work" means either the unmodified Program or a work based
on the Program.

  To "propagate" a work means to do anything with it that, without
permission, would make you directly or secondarily liable for
infringement under applicable copyright law, except executing it on a
computer or modifying a private copy.  Propagation includes copying,
distribution (with or without modification), making available to the
public, and in some countries other activities as well.

  To "convey" a work means any kind of propagation that enables other
parties to make or receive copies.  Mere interaction with a user through
a computer network, with no transfer of a copy, is not conveying.

  An interactive user interface displays "Appropriate Legal Notices"
to the extent that it includes a convenient and prominently visible
feature that (1) displays an appropriate copyright notice, and (2)
tells the user that there is no warranty for the work (except to the
extent that warranties are provided), that licensees may convey the
work under this License, and how to view a copy of this License.  If
the interface presents a list of user commands or options, such as a
menu, a prominent item in the list meets this criterion.

  1. Source Code.

  The "source code" for a work means the preferred form of the work
for making modifications to it.  "Object code" means any non-source
form of a work.

  A "Standard Interface" means an interface that either is an official
standard defined by a recognized standards body, or, in the case of
interfaces specified for a particular programming language, one that
is widely used among developers working in that language.

  The "System Libraries" of an executable work include anything, other
than the work as a whole, that (a) is included in the normal form of
packaging a Major Component, but which is not part of that Major
Component, and (b) serves only to enable use of the work with that
Major Component, or to implement a Standard Interface for which an
implementation is available to the public in source code form.  A
"Major Component", in this context, means a major essential component
(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

  The "Corresponding Source" for a work in object code form means all
the source code needed to generate, install, and (for an executable
work) run the object code and to modify the work, including scripts to
control those activities.  However, it does not include the work's
System Libraries, or general-purpose tools or generally available free
programs which are used unmodified in performing those activities but
which are not part of the work.  For example, Corresponding Source
includes interface definition files associated with source files for
the work, and the source code for shared libraries and dynamically
linked subprograms that the work is specifically designed to require,
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such as by intimate data communication or control flow between those
subprograms and other parts of the work.

  The Corresponding Source need not include anything that users
can regenerate automatically from other parts of the Corresponding
Source.

  The Corresponding Source for a work in source code form is that
same work.

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users, your or third parties' legal rights to forbid circumvention of
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  You may convey verbatim copies of the Program's source code as you
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keep intact all notices of the absence of any warranty; and give all
recipients a copy of this License along with the Program.

  You may charge any price or no price for each copy that you convey,
and you may offer support or warranty protection for a fee.

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  You may convey a work based on the Program, or the modifications to
produce it from the Program, in the form of source code under the
terms of section 4, provided that you also meet all of these conditions:

    a) The work must carry prominent notices stating that you modified
    it, and giving a relevant date.

    b) The work must carry prominent notices stating that it is
    released under this License and any conditions added under section
    7.  This requirement modifies the requirement in section 4 to
    "keep intact all notices".

    c) You must license the entire work, as a whole, under this
    License to anyone who comes into possession of a copy.  This
    License will therefore apply, along with any applicable section 7
    additional terms, to the whole of the work, and all its parts,
    regardless of how they are packaged.  This License gives no
    permission to license the work in any other way, but it does not
    invalidate such permission if you have separately received it.

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    Appropriate Legal Notices; however, if the Program has interactive
    interfaces that do not display Appropriate Legal Notices, your
    work need not make them do so.

  A compilation of a covered work with other separate and independent
works, which are not by their nature extensions of the covered work,
and which are not combined with it such as to form a larger program,
in or on a volume of a storage or distribution medium, is called an
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in an aggregate does not cause this License to apply to the other
parts of the aggregate.

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  You may convey a covered work in object code form under the terms
of sections 4 and 5, provided that you also convey the
machine-readable Corresponding Source under the terms of this License,
in one of these ways:

    a) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by the
    Corresponding Source fixed on a durable physical medium
    customarily used for software interchange.
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    b) Convey the object code in, or embodied in, a physical product
    (including a physical distribution medium), accompanied by a
    written offer, valid for at least three years and valid for as
    long as you offer spare parts or customer support for that product
    model, to give anyone who possesses the object code either (1) a
    copy of the Corresponding Source for all the software in the
    product that is covered by this License, on a durable physical
    medium customarily used for software interchange, for a price no
    more than your reasonable cost of physically performing this
    conveying of source, or (2) access to copy the
    Corresponding Source from a network server at no charge.

    c) Convey individual copies of the object code with a copy of the
    written offer to provide the Corresponding Source.  This
    alternative is allowed only occasionally and noncommercially, and
    only if you received the object code with such an offer, in accord
    with subsection 6b.

    d) Convey the object code by offering access from a designated
    place (gratis or for a charge), and offer equivalent access to the
    Corresponding Source in the same way through the same place at no
    further charge.  You need not require recipients to copy the
    Corresponding Source along with the object code.  If the place to
    copy the object code is a network server, the Corresponding Source
    may be on a different server (operated by you or a third party)
    that supports equivalent copying facilities, provided you maintain
    clear directions next to the object code saying where to find the
    Corresponding Source.  Regardless of what server hosts the
    Corresponding Source, you remain obligated to ensure that it is
    available for as long as needed to satisfy these requirements.

    e) Convey the object code using peer-to-peer transmission, provided
    you inform other peers where the object code and Corresponding
    Source of the work are being offered to the general public at no
    charge under subsection 6d.

  A separable portion of the object code, whose source code is excluded
from the Corresponding Source as a System Library, need not be
included in conveying the object code work.

  A "User Product" is either (1) a "consumer product", which means any
tangible personal property which is normally used for personal, family,
or household purposes, or (2) anything designed or sold for incorporation
into a dwelling.  In determining whether a product is a consumer product,
doubtful cases shall be resolved in favor of coverage.  For a particular
product received by a particular user, "normally used" refers to a
typical or common use of that class of product, regardless of the status
of the particular user or of the way in which the particular user
actually uses, or expects or is expected to use, the product.  A product
is a consumer product regardless of whether the product has substantial
commercial, industrial or non-consumer uses, unless such uses represent
the only significant mode of use of the product.

  "Installation Information" for a User Product means any methods,
procedures, authorization keys, or other information required to install
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and execute modified versions of a covered work in that User Product from
a modified version of its Corresponding Source.  The information must
suffice to ensure that the continued functioning of the modified object
code is in no case prevented or interfered with solely because
modification has been made.

  If you convey an object code work under this section in, or with, or
specifically for use in, a User Product, and the conveying occurs as
part of a transaction in which the right of possession and use of the
User Product is transferred to the recipient in perpetuity or for a
fixed term (regardless of how the transaction is characterized), the
Corresponding Source conveyed under this section must be accompanied
by the Installation Information.  But this requirement does not apply
if neither you nor any third party retains the ability to install
modified object code on the User Product (for example, the work has
been installed in ROM).

  The requirement to provide Installation Information does not include a
requirement to continue to provide support service, warranty, or updates
for a work that has been modified or installed by the recipient, or for
the User Product in which it has been modified or installed.  Access to a
network may be denied when the modification itself materially and
adversely affects the operation of the network or violates the rules and
protocols for communication across the network.

  Corresponding Source conveyed, and Installation Information provided,
in accord with this section must be in a format that is publicly
documented (and with an implementation available to the public in
source code form), and must require no special password or key for
unpacking, reading or copying.

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Files: numpy/.dylibs/libquadmath*.so
Description: dynamically linked to files compiled with gcc
Availability: https://gcc.gnu.org/git/?p=gcc.git;a=tree;f=libquadmath
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    GCC Quad-Precision Math Library
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22.149 oe-python-template (0.17.4) - MIT License

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- URL: https://oe-python-template.readthedocs.io/en/latest/

- Author(s): Helmut Hoffer von Ankershoffen helmuthva@gmail.com

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OpenTelemetry Python API

- URL: https://github.com/open-telemetry/opentelemetry-python/tree/main/opentelemetry-api
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22.151 opentelemetry-exporter-otlp-proto-common (1.32.1) - Apache Software License

OpenTelemetry Protobuf encoding

- URL: https://github.com/open-telemetry/opentelemetry-python/tree/main/exporter/opentelemetry-exporter-otlp-proto-common
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OpenTelemetry Collector Protobuf over HTTP Exporter

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Instrumentation Tools & Auto Instrumentation for OpenTelemetry Python

- URL: https://github.com/open-telemetry/opentelemetry-python-contrib/tree/main/opentelemetry-instrumentation
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ASGI instrumentation for OpenTelemetry

- URL: https://github.com/open-telemetry/opentelemetry-python-contrib/tree/main/instrumentation/opentelemetry-instrumentation-asgi
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- URL: https://github.com/open-telemetry/opentelemetry-python-contrib/tree/main/instrumentation/opentelemetry-instrumentation-fastapi
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OpenTelemetry HTTPX Instrumentation

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OpenTelemetry requests instrumentation

- URL: https://github.com/open-telemetry/opentelemetry-python-contrib/tree/main/

instrumentation/opentelemetry-instrumentation-requests

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OpenTelemetry SQLite3 instrumentation

- URL: https://github.com/open-telemetry/opentelemetry-python-contrib/tree/main/instrumentation/opentelemetry-instrumentation-sqlite3
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Tornado instrumentation for OpenTelemetry

- URL: https://github.com/open-telemetry/opentelemetry-python-contrib/tree/main/instrumentation/opentelemetry-instrumentation-tornado
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OpenTelemetry Python Proto

- URL: https://github.com/open-telemetry/opentelemetry-python/tree/main/opentelemetry-proto
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22.168 opentelemetry-util-http (0.53b1) - Apache Software License

Web util for OpenTelemetry

- URL: https://github.com/open-telemetry/opentelemetry-python-contrib/tree/main/util/opentelemetry-util-http
- Author(s): OpenTelemetry Authors cncf-opentelemetry-contributors@lists.cncf.io

22.169 orjson (3.10.16) - Apache Software License; MIT License

Fast, correct Python JSON library supporting dataclasses, datetimes, and numpy

- URL: https://github.com/ijl/orjson
- Author(s): ijl ijl@mailbox.org

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22.170 outcome (1.3.0.post0) - Apache Software License; MIT License

Capture the outcome of Python function calls.

- URL: https://github.com/python-trio/outcome
- Author(s): Frazer McLean

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22.171 overrides (7.7.0) - Apache License, Version 2.0

A decorator to automatically detect mismatch when overriding a method.

- URL: https://github.com/mkorpela/overrides
- Author(s): Mikko Korpela

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22.172 packageurl-python (0.16.0) - MIT License

A purl aka. Package URL parser and builder

- URL: https://github.com/package-url/packageurl-python
- Author(s): the purl authors

22.173 packaging (24.2) - Apache Software License; BSD License

Core utilities for Python packages

- URL: https://github.com/pypa/packaging
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22.174 pandas (2.2.3) - BSD License

Powerful data structures for data analysis, time series, and statistics

- URL: https://pandas.pydata.org
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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
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    Release         Derived     Year        Owner       GPL-
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    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
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    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)
https://github.com/client9/stringencoders

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22.177 pathvalidate (3.2.3) - MIT License

pathvalidate is a Python library to sanitize/validate a string such as filenames/file-paths/etc.

- URL: https://github.com/thombashi/pathvalidate
- Author(s): Tsuyoshi Hombashi

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22.178 pexpect (4.9.0) - ISC License (ISCL)

Pexpect allows easy control of interactive console applications.

- URL: https://pexpect.readthedocs.io/
- Author(s): Noah Spurrier; Thomas Kluyver; Jeff Quast

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22.179 pillow (11.2.1) - UNKNOWN

Python Imaging Library (Fork)

- URL: https://python-pillow.github.io
- Author(s): “Jeffrey A. Clark” aclark@aclark.net

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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22.180 pip (25.0.1) - MIT License

The PyPA recommended tool for installing Python packages.

- URL: https://pip.pypa.io/
- Author(s): The pip developers distutils-sig@python.org

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22.181 pip-api (0.0.34) - Apache Software License

An unofficial, importable pip API

- URL: http://github.com/di/pip-api
- Author(s): Dustin Ingram

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- URL: https://github.com/raimon49/pip-licenses

- Author(s): raimon raimon49@hotmail.com

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22.183 pip-requirements-parser (32.0.1) - MIT

pip requirements parser - a mostly correct pip requirements parsing library because it uses pip's own code.

- URL: https://github.com/nexB/pip-requirements-parser
- Author(s): The pip authors, nexB. Inc. and others

22.184 pip_audit (2.9.0) - Apache Software License

A tool for scanning Python environments for known vulnerabilities

- URL: https://pypi.org/project/pip-audit/
- Author(s): Alex Cameron alex.cameron@trailofbits.com, Dustin Ingram di@python.org, William Woodruff william@trailofbits.com

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A small Python package for determining appropriate platform-specific dirs, e.g. a `user data dir`.

- URL: https://github.com/tox-dev/platformdirs
- Maintainer(s): Bernát Gábor gaborjbernat@gmail.com, Julian Berman Julian@GrayVines.com, Ofek Lev oss@ofek.dev, Ronny Pfannschmidt opensource@ronnypfannschmidt.de

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22.186 pluggy (1.5.0) - MIT License

plugin and hook calling mechanisms for python

- URL: https://github.com/pytest-dev/pluggy
- Author(s): Holger Krekel

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22.187 pre_commit (4.2.0) - MIT License

A framework for managing and maintaining multi-language pre-commit hooks.

- URL: https://github.com/pre-commit/pre-commit
- Author(s): Anthony Sottile

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22.188 prettytable (3.16.0) - UNKNOWN

A simple Python library for easily displaying tabular data in a visually appealing ASCII table format

- URL: https://github.com/prettytable/prettytable
- Author(s): Luke Maurits luke@maurits.id.au
- Maintainer(s): Hugo van Kemenade

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22.189 prometheus_client (0.21.1) - Apache Software License

Python client for the Prometheus monitoring system.

- URL: https://github.com/prometheus/client_python
- Author(s): Brian Brazil

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22.190 prompt_toolkit (3.0.51) - BSD License

Library for building powerful interactive command lines in Python

- URL: UNKNOWN
- Author(s): Jonathan Slenders

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22.191 propcache (0.3.1) - Apache Software License

Accelerated property cache

- URL: https://github.com/aio-libs/propcache
- Author(s): Andrew Svetlov
- Maintainer(s): aiohttp team team@aiohttp.org

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22.192 protobuf (5.29.4) - 3-Clause BSD License

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- URL: https://developers.google.com/protocol-buffers/
- Author(s): protobuf@googlegroups.com

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22.193 proxy_tools (0.1.0) - MIT License

Proxy Implementation

- URL: http://github.com/jtushman/proxy_tools
- Author(s): Jonathan Tushman

22.194 pscript (0.7.7) - BSD License

Python to JavaScript compiler.

- URL: http://pscript.readthedocs.io
- Author(s): Almar Klein and contributors

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Cross-platform lib for process and system monitoring in Python. NOTE: the syntax of this script MUST be kept compatible with Python 2.7.

- URL: https://github.com/giampaolo/psutil
- Author(s): Giampaolo Rodola

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22.196 ptyprocess (0.7.0) - ISC License (ISCL)

Run a subprocess in a pseudo terminal

- URL: https://github.com/pexpect/ptyprocess
- Author(s): Thomas Kluyver

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22.197 pure_eval (0.2.3) - MIT License

Safely evaluate AST nodes without side effects

- URL: http://github.com/alexmojaki/pure_eval
- Author(s): Alex Hall

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22.198 py-serializable (2.0.0) - Apache Software License

Library for serializing and deserializing Python Objects to and from JSON and XML.

- URL: https://github.com/madpah/serializable#readme
- Author(s): Paul Horton
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↪multiarray/multiarraymodule.c#L2910

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java/vector/src/main/java/org/apache/arrow/vector/util/IntObjectHashMap.java
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22.200 pycparser (2.22) - BSD License

C parser in Python

- URL: https://github.com/eliben/pycparser
- Author(s): Eli Bendersky
- Maintainer(s): Eli Bendersky

22.200.1 License Text

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pycparser -- A C parser in Python

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22.201 pycrdt (0.11.1) - MIT License

Python bindings for Yrs

- URL: https://github.com/jupyter-server/pycrdt
- Author(s): David Brochart david.brochart@gmail.com

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22.202 pydantic (2.11.3) - MIT License

Data validation using Python type hints

- URL: https://github.com/pydantic/pydantic
- Author(s): Samuel Colvin s@muelcolvin.com, Eric Jolibois em.jolibois@gmail.com, Hasan Ramezani hasan.r67@gmail.com, Adrian Garcia Badaracco 1755071+adriangb@users.noreply.github.com, Terrence Dorsey terry@pydantic.dev, David Montague david@pydantic.dev, Serge

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22.203 pydantic-extra-types (2.10.3) - MIT License

Extra Pydantic types.

- URL: https://github.com/pydantic/pydantic-extra-types
- Author(s): Samuel Colvin s@muelcolvin.com, Yasser Tahiri hello@yezz.me

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22.204 pydantic-settings (2.9.1) - MIT License

Settings management using Pydantic

- URL: https://github.com/pydantic/pydantic-settings
- Author(s): Samuel Colvin s@muelcolvin.com, Eric Jolibois em.jolibois@gmail.com, Hasan Ramezani hasan.r67@gmail.com

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22.205 pydantic_core (2.33.1) - MIT License

Core functionality for Pydantic validation and serialization

- URL: https://github.com/pydantic/pydantic-core
- Author(s): Samuel Colvin s@muelcolvin.com, Adrian Garcia Badaracco 1755071+adriangb@users.noreply.github.com, David Montague david@pydantic.dev, David Hewitt mail@davidhewitt.dev, Sydney Runkle sydneymarierunkle@gmail.com, Victorien Plot contact@vctrn.dev

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22.206 pydeck (0.9.1) - Apache License 2.0

Widget for deck.gl maps

- URL: https://github.com/visgl/deck.gl/tree/master/bindings/pydeck
- Author(s): Andrew Duberstein

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Extension pack for Python Markdown.

- URL: https://github.com/facelessuser/pymdown-extensions
- Author(s): Isaac Muse Isaac.Muse@gmail.com

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`superfences.py` is derived from Python Markdown's fenced_code extension.

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22.208 pyobjc-core (11.0) - MIT License

Python<->ObjC Interoperability Module

- URL: https://github.com/ronaldoussoren/pyobjc
- Author(s): Ronald Oussoren, bbum, SteveM, LeleG, many others stretching back through the reaches of time...
- Maintainer(s): Ronald Oussoren

22.209 pyobjc-framework-Cocoa (11.0) - MIT License

Wrappers for the Cocoa frameworks on macOS

- URL: https://github.com/ronaldoussoren/pyobjc
- Author(s): Ronald Oussoren

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Wrappers for the Quartz frameworks on macOS

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- Author(s): Ronald Oussoren

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Wrappers for the framework Security on macOS

- URL: https://github.com/ronaldoussoren/pyobjc
- Author(s): Ronald Oussoren

22.212 pyobjc-framework-WebKit (11.0) - MIT License

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- URL: https://github.com/ronaldoussoren/pyobjc
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22.213 pyparsing (3.2.3) - MIT License

pyparsing module - Classes and methods to define and execute parsing grammars

- URL: https://github.com/pyparsing/pyparsing/
- Author(s): Paul McGuire ptmcg.gm+pyparsing@gmail.com

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22.214 pyright (1.1.399) - MIT

Command line wrapper for pyright

- URL: https://github.com/RobertCraigie/pyright-python
- Author(s): Robert Craigie
- Maintainer(s): Robert Craigie

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22.215 pytablewriter (1.2.1) - MIT License

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- URL: https://github.com/thombashi/pytablewriter
- Author(s): Tsuyoshi Hombashi

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22.216 pytest (8.3.5) - MIT License

pytest: simple powerful testing with Python

- URL: https://docs.pytest.org/en/latest/
- Author(s): Holger Krekel, Bruno Oliveira, Ronny Pfannschmidt, Floris Bruynooghe, Brianna Laugher, Florian Bruhin, Others (See AUTHORS)

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22.217 pytest-asyncio (0.26.0) - UNKNOWN

Pytest support for asyncio

- URL: https://github.com/pytest-dev/pytest-asyncio
- Author(s): "Tin Tvrtković tinchester@gmail.com" tinchester@gmail.com

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22.218 pytest-base-url (2.1.0) - Mozilla Public License 2.0 (MPL 2.0)

pytest plugin for URL based testing

- URL: https://github.com/pytest-dev/pytest-base-url
- Author(s): Dave Hunt dhunt@mozilla.com, Jim Brannlund jimbrannlund@fastmail.com

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22.219 pytest-cov (6.1.1) - MIT License

Pytest plugin for measuring coverage.

- URL: https://github.com/pytest-dev/pytest-cov
- Author(s): Marc Schlaich

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22.220 pytest-datadir (1.6.1) - MIT License

pytest plugin for test data directories and files

- URL: http://github.com/gabrielcnr/pytest-datadir
- Author(s): Gabriel Reis gabrielcnr@gmail.com

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22.221 pytest-docker (3.2.1) - MIT License

Simple pytest fixtures for Docker and Docker Compose based tests

- URL: https://github.com/avast/pytest-docker
- Author(s): Max K., Andre Caron

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22.222 pytest-env (1.1.5) - MIT License

pytest plugin that allows you to add environment variables.

- URL: https://github.com/pytest-dev/pytest-env
- Maintainer(s): Bernát Gábor gaborjbernat@gmail.com

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22.223 pytest-html (4.1.1) - MIT License

pytest plugin for generating HTML reports

- URL: https://github.com/pytest-dev/pytest-html
- Author(s): Dave Hunt dhunt@mozilla.com, Jim Brannlund jimbrannlund@fastmail.com

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22.224 pytest-md-report (0.6.3) - MIT License

A pytest plugin to generate test outcomes reports with markdown table format.

- URL: https://github.com/thombashi/pytest-md-report
- Author(s): Tsuyoshi Hombashi

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22.225 pytest-metadata (3.1.1) - Mozilla Public License 2.0 (MPL 2.0)

pytest plugin for test session metadata

- URL: https://github.com/pytest-dev/pytest-metadata
- Author(s): Dave Hunt dhunt@mozilla.com, Jim Brannlund jimbrannlund@fastmail.com

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22.226 pytest-regressions (2.7.0) - MIT License

Easy to use fixtures to write regression tests.

- URL: https://github.com/ESSS/pytest-regressions
- Author(s): ESSS
- Maintainer(s): Bruno Oliveira

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22.227 pytest-selenium (4.1.0) - Mozilla Public License 2.0 (MPL 2.0)

pytest plugin for Selenium

- URL: https://github.com/pytest-dev/pytest-selenium
- Author(s): Dave Hunt dhunt@mozilla.com, Jim Brannlund jimbrannlund@fastmail.com

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22.228 pytest-subprocess (1.5.3) - MIT License

A plugin to fake subprocess for pytest

- URL: https://github.com/aklajnert/pytest-subprocess
- Author(s): Andrzej Klajnert
- Maintainer(s): Andrzej Klajnert

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22.229 pytest-timeout (2.3.1) - DFSG approved; MIT License

pytest plugin to abort hanging tests

- URL: https://github.com/pytest-dev/pytest-timeout
- Author(s): Floris Bruynooghe

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22.230 pytest-variables (3.1.0) - Mozilla Public License 2.0 (MPL 2.0)

pytest plugin for providing variables to tests/fixtures

- URL: https://github.com/pytest-dev/pytest-variables
- Author(s): Dave Hunt dhunt@mozilla.com, Jim Brannlund jimbrannlund@fastmail.com

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22.231 pytest-watcher (0.4.3) - MIT License

Automatically rerun your tests on file modifications

- URL: https://github.com/olzhasar/pytest-watcher
- Author(s): Olzhas Arystanov

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22.232 pytest-xdist (3.6.1) - MIT License

pytest xdist plugin for distributed testing, most importantly across multiple CPUs

- URL: https://github.com/pytest-dev/pytest-xdist
- Author(s): holger krekel and contributors pytest-dev@python.org, holger@merlinux.eu

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22.233 python-dateutil (2.9.0.post0) - Apache Software License; BSD License

Extensions to the standard Python datetime module

- URL: https://github.com/dateutil/dateutil
- Author(s): Gustavo Niemeyer
- Maintainer(s): Paul Ganssle

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22.234 python-dotenv (1.1.0) - BSD License

Read key-value pairs from a .env file and set them as environment variables

- URL: https://github.com/theskumar/python-dotenv
- Author(s): Saurabh Kumar

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22.235 python-engineio (4.12.0) - MIT License

Engine.IO server and client for Python

- URL: https://github.com/miguelgrinberg/python-engineio
- Author(s): Miguel Grinberg miguel.grinberg@gmail.com

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22.236 python-json-logger (3.3.0) - BSD License

JSON Log Formatter for the Python Logging Package

- URL: https://nhairs.github.io/python-json-logger
- Author(s): Zakaria Zajac zak@madzak.com, Nicholas Hairs info+python-json-logger@nicholashairs.com
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22.237 python-multipart (0.0.20) - Apache Software License

A streaming multipart parser for Python

- URL: https://github.com/Kludex/python-multipart
- Author(s): Andrew Dunham andrew@du.nham.ca, Marcelo Trylesinski marcelotryle@gmail.com

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22.238 python-socketio (5.13.0) - MIT License

Socket.IO server and client for Python

- URL: https://github.com/miguelgrinberg/python-socketio
- Author(s): Miguel Grinberg miguel.grinberg@gmail.com

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22.239 pytz (2025.2) - MIT License

World timezone definitions, modern and historical

- URL: http://pythonhosted.org/pytz
- Author(s): Stuart Bishop
- Maintainer(s): Stuart Bishop

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Build GUI for your Python program with JavaScript, HTML, and CSS

- URL: https://pywebview.flowrl.com/
- Author(s): Roman Sirokov roman@flowrl.com

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Python bindings for 0MQ

- URL: https://pyzmq.readthedocs.org
- Author(s): Brian E. Granger, Min Ragan-Kelley

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22.242 questionary (2.1.0) - MIT License

Python library to build pretty command line user prompts ⭐

- URL: https://github.com/tmbo/questionary
- Author(s): Tom Bocklisch
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22.243 referencing (0.36.2) - UNKNOWN

JSON Referencing + Python

- URL: https://github.com/python-jsonschema/referencing
- Author(s): Julian Berman Julian+referencing@GrayVines.com

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22.244 requests (2.32.3) - Apache Software License

Python HTTP for Humans.

- URL: https://requests.readthedocs.io
- Author(s): Kenneth Reitz

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22.245 rfc3339-validator (0.1.4) - MIT License

A pure python RFC3339 validator

- URL: https://github.com/naimetti/rfc3339-validator
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22.248 rich-click (1.8.8) - MIT License

Format click help output nicely with rich

- URL: https://github.com/ewels/rich-click
- Author(s): Phil Ewels phil@ewels.co.uk
- Maintainer(s): Phil Ewels phil@ewels.co.uk, Daniel Reeves xdanielreeves@gmail.com

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22.249 rich-toolkit (0.14.1) - MIT License

Rich toolkit for building command-line applications

- URL: UNKNOWN

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22.250 roman-numerals-py (3.1.0) - CC0 1.0 Universal (CC0 1.0) Public Domain Dedication; Zero-Clause BSD (0BSD)

Manipulate well-formed Roman numerals

- URL: https://github.com/AA-Turner/roman-numerals/blob/master/CHANGES.rst
- Author(s): Adam Turner

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22.251 rpds-py (0.24.0) - MIT

Python bindings to Rust's persistent data structures (rpds)

- URL: https://github.com/crate-py/rpds
- Author(s): Julian Berman Julian+rpds@GrayVines.com

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22.252 ruamel.yaml (0.18.10) - MIT License

ruamel.yaml is a YAML parser/emitter that supports roundtrip preservation of comments, seq/map flow style, and map key order

- URL: https://sourceforge.net/p/ruamel-yaml/code/ci/default/tree/
- Author(s): Anthon van der Neut

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22.253 ruff (0.11.6) - MIT License

An extremely fast Python linter and code formatter, written in Rust.

- URL: https://docs.astral.sh/ruff
- Author(s): Charlie Marsh charlie.r.marsh@gmail.com

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Scalene: A high-resolution, low-overhead CPU, GPU, and memory profiler for Python with AI-powered optimization suggestions

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- Author(s): Emery Berger emery@cs.umass.edu, Sam Stern jstern@umass.edu, Juan Altmayer Pizzorno juan@altmayer.com

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22.256 sentry-sdk (2.27.0) - BSD License

Python client for Sentry (https://sentry.io)

- URL: https://github.com/getsentry/sentry-python
- Author(s): Sentry Team and Contributors

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22.257 setuptools (79.0.0) - UNKNOWN

Easily download, build, install, upgrade, and uninstall Python packages

- URL: https://github.com/pypa/setuptools
- Author(s): Python Packaging Authority distutils-sig@python.org

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22.258 shellingham (1.5.4) - ISC License (ISCL)

Tool to Detect Surrounding Shell

- URL: https://github.com/sarugaku/shellingham
- Author(s): Tzu-ping Chung

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22.259 simple-websocket (1.1.0) - MIT License

Simple WebSocket server and client for Python

- URL: https://github.com/miguelgrinberg/simple-websocket
- Author(s): Miguel Grinberg miguel.grinberg@gmail.com

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22.260 six (1.17.0) - MIT License

Python 2 and 3 compatibility utilities

- URL: https://github.com/benjaminp/six
- Author(s): Benjamin Peterson

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22.261 smmap (5.0.2) - BSD License

A pure Python implementation of a sliding window memory map manager

- URL: https://github.com/gitpython-developers/smmap
- Author(s): Sebastian Thiel

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Sniff out which async library your code is running under

- URL: https://github.com/python-trio/sniffio
- Author(s): "Nathaniel J. Smith" njs@pobox.com

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22.263 snowballstemmer (2.2.0) - BSD License

This package provides 29 stemmers for 28 languages generated from Snowball algorithms.

- URL: https://github.com/snowballstem/snowball
- Author(s): Snowball Developers

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22.264 sortedcontainers (2.4.0) - Apache Software License

Sorted Containers – Sorted List, Sorted Dict, Sorted Set

- URL: http://www.grantjenks.com/docs/sortedcontainers/
- Author(s): Grant Jenks

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22.265 soupsieve (2.7) - MIT License

A modern CSS selector implementation for Beautiful Soup.

- URL: https://github.com/facelessuser/soupsieve
- Author(s): Isaac Muse Isaac.Muse@gmail.com

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22.266 sphinx-autobuild (2024.10.3) - MIT License

Rebuild Sphinx documentation on changes, with hot reloading in the browser.

- URL: https://github.com/sphinx-doc/sphinx-autobuild
- Author(s): Adam Turner

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Type hints (PEP 484) support for the Sphinx autodoc extension

- URL: https://github.com/tox-dev/sphinx-autodoc-typehints
- Author(s): Bernát Gábor gaborjbernat@gmail.com
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22.268 sphinx-basic-ng (1.0.0b2) - MIT License

A modern skeleton for Sphinx themes.

- URL: https://github.com/pradyunsg/sphinx-basic-ng
- Author(s): Pradyun Gedam

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22.269 sphinx-copybutton (0.5.2) - MIT License

Add a copy button to each of your code cells.

- URL: https://github.com/executablebooks/sphinx-copybutton
- Author(s): Executable Book Project

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22.270 sphinx-jinja2-compat (0.3.0) - MIT License

Patches Jinja2 v3 to restore compatibility with earlier Sphinx versions.

- URL: https://github.com/sphinx-toolbox/sphinx-jinja2-compat
- Author(s): Dominic Davis-Foster dominic@davis-foster.co.uk

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22.271 sphinx-prompt (1.9.0) - BSD License

Sphinx directive to add unselectable prompt

- URL: https://github.com/sbrunner/sphinx-prompt
- Author(s): Stéphane Brunner

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Read the Docs theme for Sphinx

- URL: https://github.com/readthedocs/sphinx_rtd_theme
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22.273 sphinx-tabs (3.4.5) - MIT License

Tabbed views for Sphinx

- URL: https://github.com/executablebooks/sphinx-tabs
- Author(s): djungelorm

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22.274 sphinx-toolbox (3.9.0) - MIT License

Box of handy tools for Sphinx 🧰

- URL: https://github.com/sphinx-toolbox/sphinx-toolbox
- Author(s): Dominic Davis-Foster dominic@davis-foster.co.uk

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22.275 sphinx_inline_tabs (2023.4.21) - UNKNOWN

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- URL: https://github.com/pradyunsg/sphinx-inline-tabs
- Author(s): Pradyun Gedam

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22.276 sphinx_mdinclude (0.6.2) - MIT License

Markdown extension for Sphinx

- URL: UNKNOWN
- Author(s): Hiroyuki Takagi miyako.dev@gmail.com, CrossNox ijmermet+m2r2@gmail.com, Amethyst Reese amy@noswap.com
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22.277 sphinx_selective_exclude (1.0.3) - MIT license

Sphinx eager ".. only::" directive and other selective rendition extensions

- URL: https://github.com/pfalcon/sphinx_selective_exclude
- Author(s): Paul Sokolovsky

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22.278 sphinxcontrib-applehelp (2.0.0) - BSD License

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- URL: https://www.sphinx-doc.org/
- Author(s): Georg Brandl georg@python.org

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- Author(s): Georg Brandl georg@python.org

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22.281 sphinxcontrib-jquery (4.1) - BSD License

Extension to include jQuery on newer Sphinx releases

- URL: https://github.com/sphinx-contrib/jquery/
- Author(s): Adam Turner

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- Author(s): Georg Brandl georg@python.org

22.284 sphinxcontrib-serializinghtml (2.0.0) - BSD License

sphinxcontrib-serializinghtml is a sphinx extension which outputs “serialized” HTML files (json and pickle)

- URL: https://www.sphinx-doc.org/
- Author(s): Georg Brandl georg@python.org

22.285 sphinxext-opengraph (0.10.0) - UNKNOWN

Sphinx Extension to enable OGP support

- URL: https://github.com/sphinx-doc/sphinxext-opengraph/
- Author(s): Itay Ziv itay220204@gmail.com

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22.286 stack-data (0.6.3) - MIT License

Extract data from python stack frames and tracebacks for informative displays

- URL: http://github.com/alexmojaki/stack_data
- Author(s): Alex Hall

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22.287 standard-imghdr (3.10.14) - Python Software Foundation License

Standard library imghdr redistribution. “dead battery”.

- URL: https://github.com/youknowone/python-deadlib
- Author(s): Python Devleopers python-deadlib@youknowone.org

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22.288 starlette (0.46.2) - BSD License

The little ASGI library that shines.

- URL: https://github.com/encode/starlette
- Author(s): Tom Christie tom@tomchristie.com

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22.289 streamlit (1.44.1) - Apache Software License

A faster way to build and share data apps

- URL: https://streamlit.io
- Author(s): Snowflake Inc

22.290 swagger-plugin-for-sphinx (5.1.0) - Apache Software License

Sphinx plugin which renders a OpenAPI specification with Swagger

- URL: https://github.com/SAP/swagger-plugin-for-sphinx/blob/main/CHANGELOG.md
- Author(s): Kai Harder kai.harder@sap.com

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22.291 tabledata (1.3.4) - MIT License

tabledata is a Python library to represent tabular data. Used for pytablewriter/pytablereader/SimpleSQLite/etc.

- URL: https://github.com/thombashi/tabledata

- Author(s): Tsuyoshi Hombashi

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22.292 tabulate (0.9.0) - MIT License

Pretty-print tabular data

- URL: https://github.com/astanin/python-tabulate
- Author(s): Sergey Astanin s.astanin@gmail.com

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22.293 tcolorpy (0.1.7) - MIT License

tcolopy is a Python library to apply true color for terminal text.

- URL: https://github.com/thombashi/tcolorpy
- Author(s): Tsuyoshi Hombashi

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22.294 tenacity (9.1.2) - Apache Software License

Retry code until it succeeds

- URL: https://github.com/jd/tenacity
- Author(s): Julien Danjou

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22.295 terminado (0.18.1) - BSD License

Tornado websocket backend for the Xterm.js Javascript terminal emulator library.

- URL: https://github.com/jupyter/terminado
- Author(s): Jupyter Development Team jupyter@googlegroups.com

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22.296 tinycss2 (1.4.0) - BSD License

A tiny CSS parser

- URL: https://www.courtbouillon.org/tinycss2
- Author(s): Simon Sapin simon.sapin@exyr.org
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22.297 toml (0.10.2) - MIT License

Python Library for Tom's Obvious, Minimal Language

- URL: https://github.com/uiri/toml
- Author(s): William Pearson

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22.298 tomli (2.2.1) - MIT License

A lil' TOML parser

- URL: https://github.com/hukkin/tomli
- Author(s): Taneli Hukkinen hukkin@users.noreply.github.com

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22.299 tomlkit (0.13.2) - MIT License

Style preserving TOML library

- URL: https://github.com/sdispater/tomlkit
- Author(s): Sébastien Eustace

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22.300 tornado (6.4.2) - Apache Software License

Tornado is a Python web framework and asynchronous networking library, originally developed at FriendFeed.

- URL: http://www.tornadoweb.org/
- Author(s): Facebook

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22.301 traitlets (5.14.3) - BSD License

Traitlets Python configuration system

- URL: https://github.com/ipython/traitlets
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22.302 trio (0.30.0) - UNKNOWN

A friendly Python library for async concurrency and I/O

- URL: https://github.com/python-trio/trio
- Author(s): "Nathaniel J. Smith" njs@pobox.com

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22.303 trio-websocket (0.12.2) - MIT License

WebSocket library for Trio

- URL: https://github.com/python-trio/trio-websocket
- Author(s): Mark E. Haase

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22.304 typepy (1.3.4) - MIT License

typepy is a Python library for variable type checker/validator/converter at a run time.

- URL: https://github.com/thombashi/typepy

- Author(s): Tsuyoshi Hombashi

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22.305 typer (0.15.2) - MIT License

Typer, build great CLIs. Easy to code. Based on Python type hints.

- URL: https://github.com/fastapi/typer
- Author(s): =?utf-8?q?Sebasti=C3=A1n_Ram=C3=ADrez?= tiangolo@gmail.com

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22.306 types-PyYAML (6.0.12.20250402) - UNKNOWN

Typing stubs for PyYAML

- URL: https://github.com/python/typeshed

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22.307 types-python-dateutil (2.9.0.20241206) - Apache Software License

Typing stubs for python-dateutil

- URL: https://github.com/python/typeshed

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22.309 typing-inspection (0.4.0) - MIT License

Runtime typing introspection tools

- URL: https://github.com/pydantic/typing-inspection
- Author(s): Victorien Plot contact@vctrn.dev

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22.310 typing_extensions (4.13.2) - UNKNOWN

Backported and Experimental Type Hints for Python 3.8+

- URL: https://github.com/python/typing_extensions
- Author(s): "Guido van Rossum, Jukka Lehtosalo, Łukasz Langa, Michael Lee" levkivskyi@gmail.com

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A. HISTORY OF THE SOFTWARE
==========================

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC.  Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team.  In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation.  In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for
the Open Source Definition).  Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

    Release         Derived     Year        Owner       GPL-
                    from                                compatible? (1)

    0.9.0 thru 1.2              1991-1995   CWI         yes
    1.3 thru 1.5.2  1.2         1995-1999   CNRI        yes
    1.6             1.5.2       2000        CNRI        no
    2.0             1.6         2000        BeOpen.com  no
    1.6.1           1.6         2001        CNRI        yes (2)
    2.1             2.0+1.6.1   2001        PSF         no
    2.0.1           2.0+1.6.1   2001        PSF         yes
    2.1.1           2.1+2.0.1   2001        PSF         yes
    2.1.2           2.1.1       2002        PSF         yes
    2.1.3           2.1.2       2002        PSF         yes
    2.2 and above   2.1.1       2001-now    PSF         yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
    because its license has a choice of law clause.  According to
    CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
    is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's
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Provider of IANA time zone data

- URL: https://github.com/python/tzdata
- Author(s): Python Software Foundation

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22.312 ujson (5.10.0) - BSD License

Ultra fast JSON encoder and decoder for Python

- URL: https://github.com/ultrajson/ultrajson
- Author(s): Jonas Tarnstrom

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Portions of code from MODP_ASCII - Ascii transformations (upper/lower, etc)
https://github.com/client9/stringencoders

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Cross-platform uptime library

- URL: https://github.com/Cairnarvon/uptime
- Author(s): Koen Crolla

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22.314 uri-template (1.3.0) - MIT License

RFC 6570 URI Template Processor

- URL: https://gitlab.linss.com/open-source/python/uri-template
- Author(s): Peter Linss pypi@linss.com

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22.315 urllib3 (2.4.0) - UNKNOWN

HTTP library with thread-safe connection pooling, file post, and more.

- URL: https://github.com/urllib3/urllib3/blob/main/CHANGES.rst
- Author(s): Andrey Petrov andrey.petrov@shazow.net
- Maintainer(s): Seth Michael Larson sethmichaellarson@gmail.com, Quentin Pradet quentin@pradet.me, Illia Volochii illia.volochii@gmail.com

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22.316 uv (0.6.14) - Apache Software License; MIT License

An extremely fast Python package and project manager, written in Rust.

- URL: https://pypi.org/project/uv/
- Author(s): uv

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22.317 uvicorn (0.34.2) - BSD License

The lightning-fast ASGI server.

- URL: https://www.uvicorn.org/
- Author(s): Tom Christie tom@tomchristie.com, Marcelo Trylesinski marcelotryle@gmail.com

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22.318 uvloop (0.21.0) - Apache Software License; MIT License

Fast implementation of asyncio event loop on top of libuv

- URL: UNKNOWN
- Author(s): Yury Selivanov yury@magic.io

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22.319 vbuild (0.8.2) - MIT License

A simple module to extract html/script/style from a vuejs '.vue' file (can minimize/es2015 compliant js) ... just py2 or py3, NO nodejs !

- URL: https://github.com/manatlan/vbuild

- Author(s): manatlan

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22.320 virtualenv (20.30.0) - MIT License

Virtual Python Environment builder

- URL: https://github.com/pypa/virtualenv
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22.321 watchdog (6.0.0) - Apache Software License

Filesystem events monitoring

- URL: https://github.com/gorakhargosh/watchdog
- Author(s): Mickaël Schoentgen

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22.322 watchfiles (1.0.5) - MIT License

Simple, modern and high performance file watching and code reload in python.

- URL: https://github.com/samuelcolvin/watchfiles
- Author(s): Samuel Colvin s@muelcolvin.com

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22.323 wcmatch (10.0) - MIT License

Wildcard/glob file name matcher.

- URL: https://github.com/facelessuser/wcmatch
- Author(s): Isaac Muse Isaac.Muse@gmail.com

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22.324 wcwidth (0.2.13) - MIT License

Measures the displayed width of unicode strings in a terminal

- URL: https://github.com/jquast/wcwidth
- Author(s): Jeff Quast

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Markus Kuhn -- 2007-05-26 (Unicode 5.0)

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A library for working with the color formats defined by HTML and CSS.

- URL: UNKNOWN
- Author(s): James Bennett

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Character encoding aliases for legacy web content

- URL: https://github.com/SimonSapin/python-webencodings
- Author(s): Geoffrey Sneddon

22.327 websocket-client (1.8.0) - Apache Software License

WebSocket client for Python with low level API options

- URL: https://github.com/websocket-client/websocket-client.git
- Author(s): liris
- Maintainer(s): engn33r

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22.328 websockets (15.0.1) - BSD License

An implementation of the WebSocket Protocol (RFC 6455 & 7692)

- URL: https://github.com/python-websockets/websockets

- Author(s): Aymeric Augustin aymeric.augustin@m4x.org

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22.329 wheel (0.45.1) - MIT License

A built-package format for Python

- URL: https://github.com/pypa/wheel
- Author(s): Daniel Holth dholth@fastmail.fm
- Maintainer(s): Alex Grönholm alex.gronholm@nextday.fi

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Jupyter interactive widgets for Jupyter Notebook

- URL: http://jupyter.org
- Author(s): Jupyter Development Team

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Module for decorators, wrappers and monkey patching.

- URL: https://github.com/GrahamDumpleton/wrapt
- Author(s): Graham Dumpleton

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22.332 wsproto (1.2.0) - MIT License

WebSockets state-machine based protocol implementation

- URL: https://github.com/python-hyper/wsproto/
- Author(s): Benno Rice

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22.333 yarl (1.20.0) - Apache Software License

Yet another URL library

- URL: https://github.com/aio-libs/yarl
- Author(s): Andrew Svetlov
- Maintainer(s): aiohttp team team@aiohttp.org

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22.334 zipp (3.21.0) - MIT License

Backport of pathlib-compatible object wrapper for zip files

- URL: https://github.com/jaraco/zipp
- Author(s): "Jason R. Coombs" jaraco@jaraco.com

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