

## OpenAtlas - Standards - # 46

OpenAtlas is developed with some standards in mind.

## Open source

To guaranty that the OpenAtlas application can be shared as open source (GPL 2) we make sure that:

- Only open source software is used and required
- Non-code files are open data, e.g. the logo (CC BY-SA 4.0)
- If 3rd party software or media is included in the application it is important to:
  - Check the license for compatibility
  - Store them in `openatlas/static/vendor`
  - Add a license file if available

## Bugs

Of course we do our best to avoid them in the first place but if bugs get apparent they always have the highest priority.

## HTML

- We are using [HTML 5](#) and the site should be validating correctly. Exceptions may be acceptable if (harmless) non valid HTML 5 is produced by 3rd party libraries.
- For indentation we use 2 spaces (in contrast to 4 in Python) but this has to be rewritten in existing code which may take a while.

## Python

### Tests and checks

	Version	PyCharm	Configuration	
<a href="#">PEP 8</a>		integrated		Style guide for Python code
<a href="#">nose tests</a>	1.3.7	integrated	<b>tests/.coveragerc</b> , <b>tests/.noserc</b>	Should cover all Python code using assertions. Some parts (e.g. mail functions) may be excluded with the <b># pragma: no cover</b> option
<a href="#">Mypy</a>	0.812	plugin <b>Mypy</b>	<b>mypy.ini</b>	Optional static type checker for Python
<a href="#">Pylint</a>	2.7.2	plugin <b>Pylint</b>	<b>.pylintrc</b>	Checks for errors, coding standards and code smells

### Further reading

- [Clean code](#) draft
- [Code checker](#) in evaluation

## Software packages (Debian)

Although pip offers some advantages (e.g more current packages, usable for different installation environment) we prefer packages from the [Debian](#) repository.

Main reasons concern security, reliability and stability. Only exception are frontend libraries because they don't really affect server security.