

Testing your code

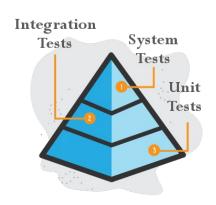
Git recap

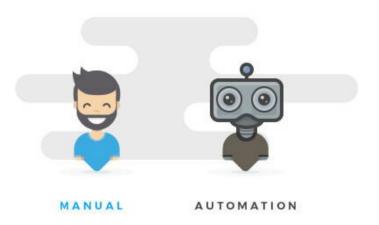
- Install it
- 2. Create a github account and ask Filipa to add you to the pyladies repo
- 3. Go to github pyladies repo > <a href="https://github.com/pyladies-bratislava/pyladi
- 4. Clone the repository (in your computer)
- 5. Create a branch and make some changes > git checkout -b <branch-name>
- 6. Commit your changes and write a nice commit message (locally) > git commit -m "Add password generator function"
- 7. Push your branch to github > git push origin <branch-name>
- 8. Make a Pull Request to pyladies-bratislava:master (in github using your account)
- 9. Wait for the review and the merge of your changes.

Types of tests

- 1. Unit tests
- 2. Functional/Integration tests
- 3. System tests

- A. Manual tests
- B. Automated tests





assert statement

```
assert 1 == 1

assert 3 in [1,2,3,4,5,6]

assert 5 == 6
```

Asserts should be used to test conditions that *should never happen*. The purpose is to crash early in the case of a corrupt program state.

Python test runners

- unittest
 - python built-in since 2.1
 - https://docs.python.org/3/library/unittest.html
- nose2
- based on unittest (it's unittest with plugins)
- https://docs.nose2.io/en/latest/
- pytest
 - the best test runner for python imho
 - lots of plugins

Let's test our code

- Pull the latest version of our repository from github
- Go to meetup18
- Make a virtual env with python3
 - python3 -m venv .venv
 - Activate it: source .venv/bin/activate
 - Install the requirements: pip install -r requirements.txt
- and run the tests:
 - With pytest: python -m pytest
 - With unittest: python -m unittest