

# 3. : Create Project & First Test

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- **Installing Python Packages:**

- Install the latest version of Pytest-
  - `>pip install pytest`
- Can specify version while installing:
  - `>pip install pytest==5.4.3`
- See all pkgs in your python installation:
  - `>pip3 list /or pip list`
- Put all pkgs list in a file:
  - `>pip freeze >requirements.txt`



- **Test Naming Conventions:**

- Name all the test modules(test files) with `test_<somename>` or `<somename>_test.py`.
- Name all the test functions with `test_<somename>`
- Test classes should be named `Test<somename>`.
- Properly group all the tests into test classes and packages(keep `__init__.py` inside the folder)

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- **Running tests:**

- pytest <folder-name>
- pytest <file-name>
- Note: Enable virtual env first if running from cmd prompt.
- Pytest options:
  - Option: -v, verbose mode, increases the verbosity level. Prints a message each time a module is initialized, showing the place (filename or built-in module) from which it is loaded.



- **Understanding Test Outputs :**

- --lf, --last-failed : only re-run the failures.
- --ff, --failed-first : to run the failures first and then the rest of the tests.
- Ref doc pytest\_cache: <https://docs.pytest.org/en/latest/cache.html>