Part 1: Mahler Symphony No. 9

 $\verb|https://www.youtube.com/watch?v=tkChdHBuoiQ&t=3237s|$

Part 2: Sticky Notes and Strong Songs



Part 2: Sticky Notes and Strong Songs



Created by the previous director of l'OCL!

Part 2: Sticky Notes and Strong Songs





Created by the previous director of l'OCL!

Leaving the group



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MARVEL

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Leaving The Group

Backups

Before you leave, you must make two backups of your workstation.

You should already possess one HDD that you have been using for regular backups (see the group's backup policy); ask Edward Linscott for a second HDD for the second backup.

Leave one HDD with Edward and take the other one with you when you leave.

Leaving your office

- . Clean and empty your desk, drawer and bookshelf
- Return any equipment you might have borrowed from the lab for remote working.
- · Leave the drawer key in the keyhole
- · Return your office key to the secretaries

Ongoing access

Ask to life of an extension of your EPFL account; typically 6 months should suffice (ask Nicola the specific amount of time depending on your future plans and the status of your current projects). The extension needs to be justified, a typical reason is "completion of a publication".

If you require ongoing access to your THEOS workstation after you leave, discuss this with the group's IT managers.



How to do programming and stuff (part 2)

Edward Linscott

THEOS group meeting, 27 July 2022

Previously on HTDPAS...

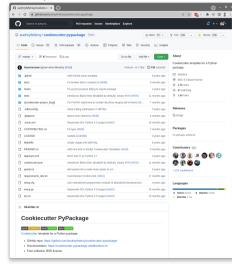
- vscode
- environments
- languages
- programming paradigms
- linting
- testing
- typing
- pre-commit
- .

I'm beginning a new project, where do I start?

Cookiecutters



a template



Cookiecutters

 $\textbf{Example: } \verb|cookiecutter https://github.com/audreyfeldroy/cookiecutter-pypackage| \\$

Cookiecutters

Lots of available options!

See e.g. https://github.com/audreyfeldroy/cookiecutter-pypackage#similar-cookiecutter-templates

An example repository: autoibrav

See the notebook

Two super-easy things we can do:

- documentation
- tests

Note: the following is specific to python

Documentation



Documentation

See the examples in ${\tt autoibrav/docs/modules.rst}$

Testing with pytest

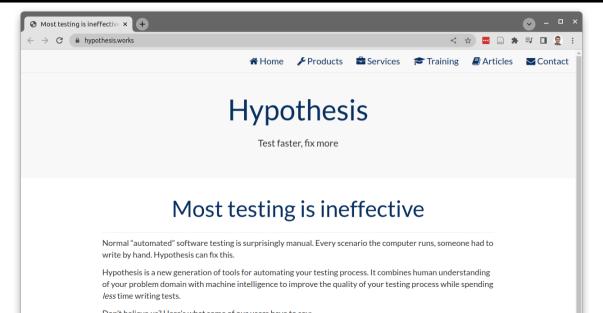
Who here believes I implemented classify correctly?



Testing with pytest

See the test examples in autoibrav

hypothesis



hypothesis

See hypothesis_example
See autoibrav
See hypothesis write hypothesis_example.hypothesis_example.decode

Testing with pytest

A few notes:

- unit vs integration tests (e.g. QE)
- pure functions and functional programming
- there are a few things about pytest that are a bit "smelly" (magic fixture injection, test function discovery, parameterization syntax, ...)

Summary

- Don't know where to start? Use a cookiecutter
- For python¹ projects...
 - docstrings + autodocs for nice documentation
 - use pytest to test the code