2-day introduction to geogeeks

Hugo Ledoux

13+14 Nov 2023

- Hugo Ledoux
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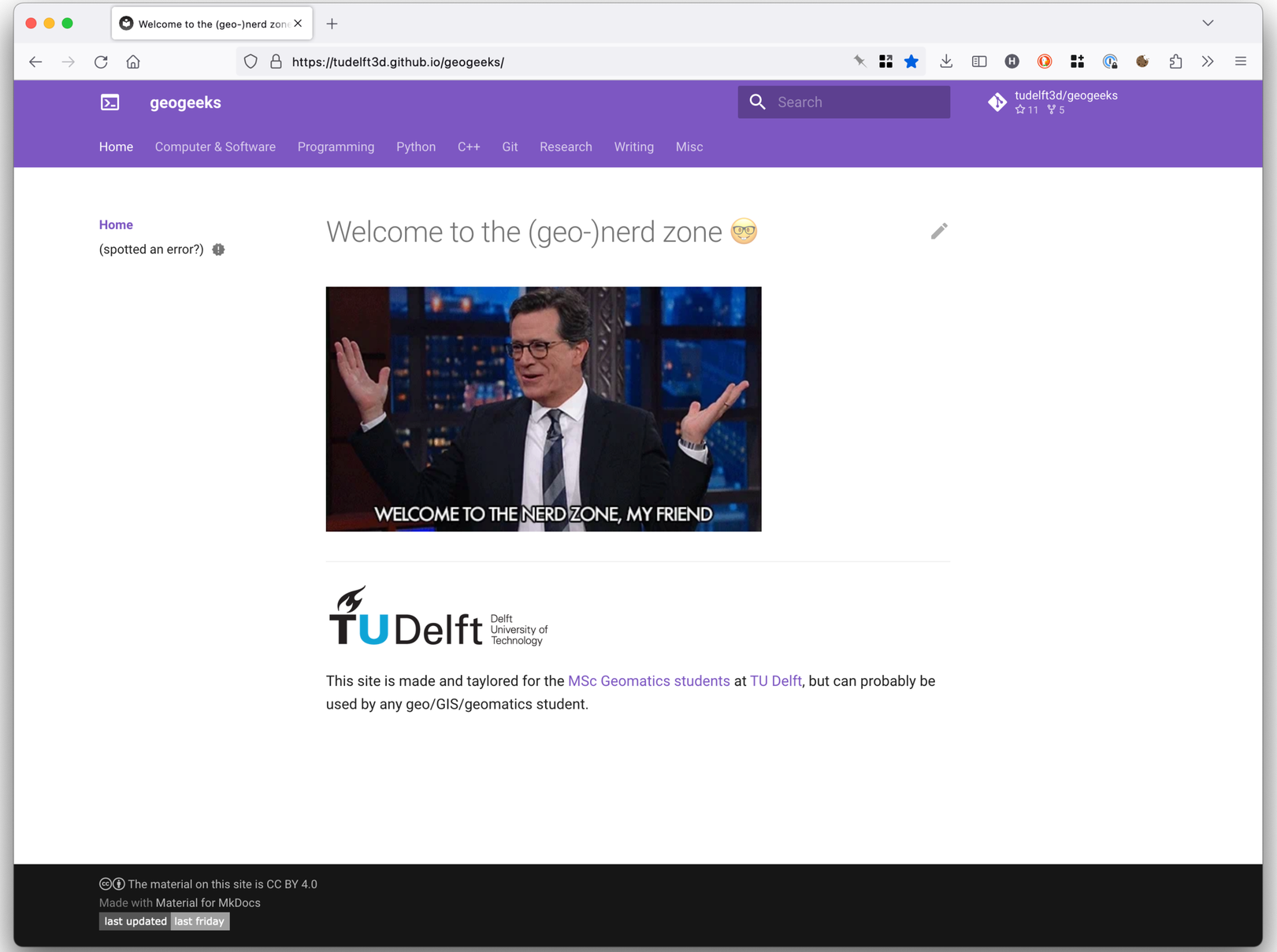
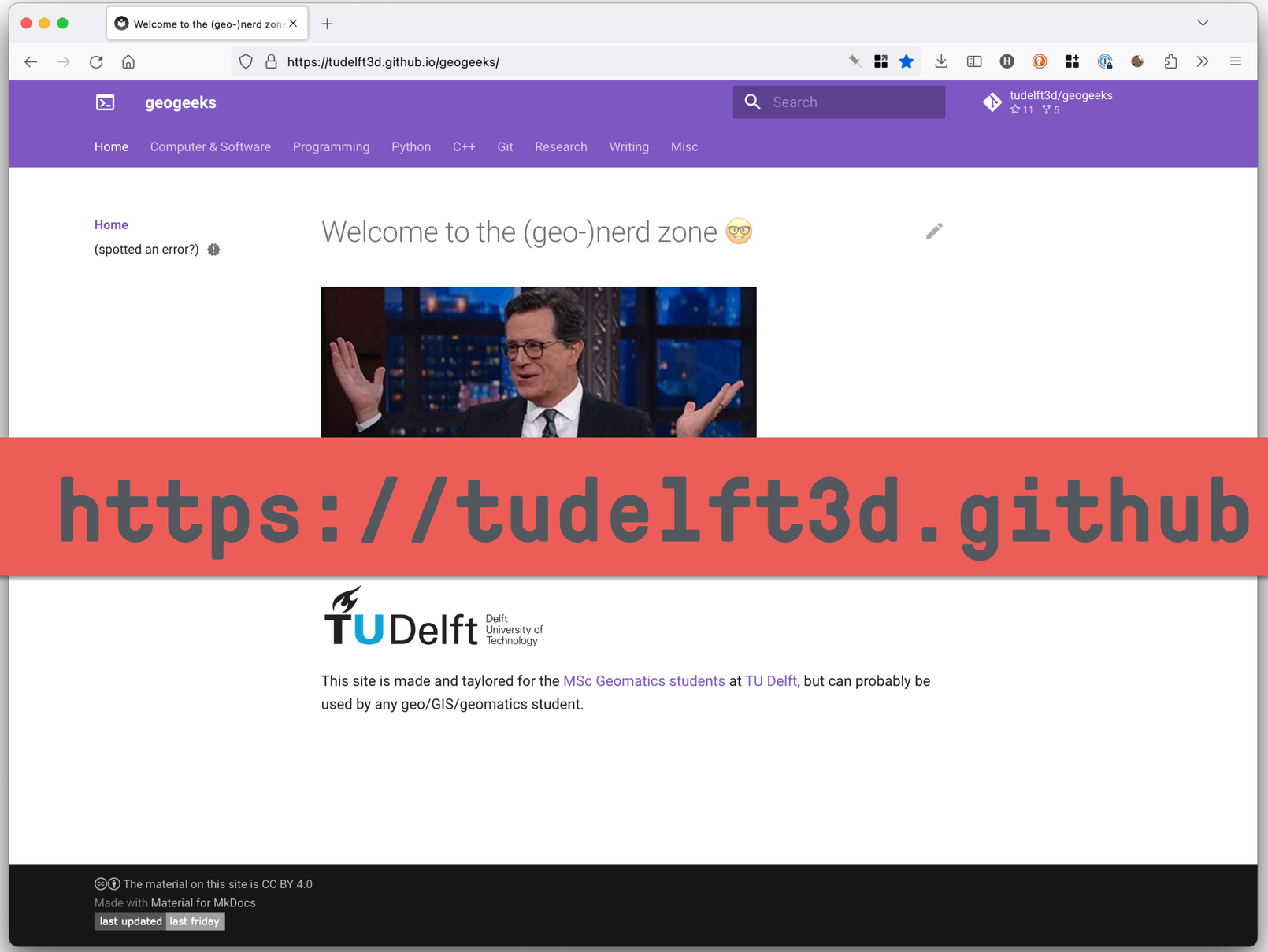
- GEO1015 teacher
- BG.West.550
- discord: hledoux

geogeeks?



- **It's new!**
- **You're the guinea pigs 😬**
- **Help us make it great!**

geogeeks?



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https://tudelft3d.github.io/geogeeks/

Schedule coming 2 days

	Monday 13 Nov	Tuesday 14 Nov
8:45–12:00	**Hugo** - Intro to geogeeks - Markdown - LaTeX - Python venv	**Clara+Akshay** - Linux filesystem - Shell/console/terminal - ssh - WSL
13:45–17:00	**Oliver+Eirini** - Intro to Git - GitHub exercices	**Lukas+Gina** - Jupyter - NumPy - Matplotlib - GeoPandas

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(spotted an error?) - geogeeks

https://tudelft3d.github.io/geogeeks/contribute/

geogeeks

Search

tudelft3d/geogeeks
11 5

Home Computer & Software Programming Python C++ Git Research Writing Misc

Home

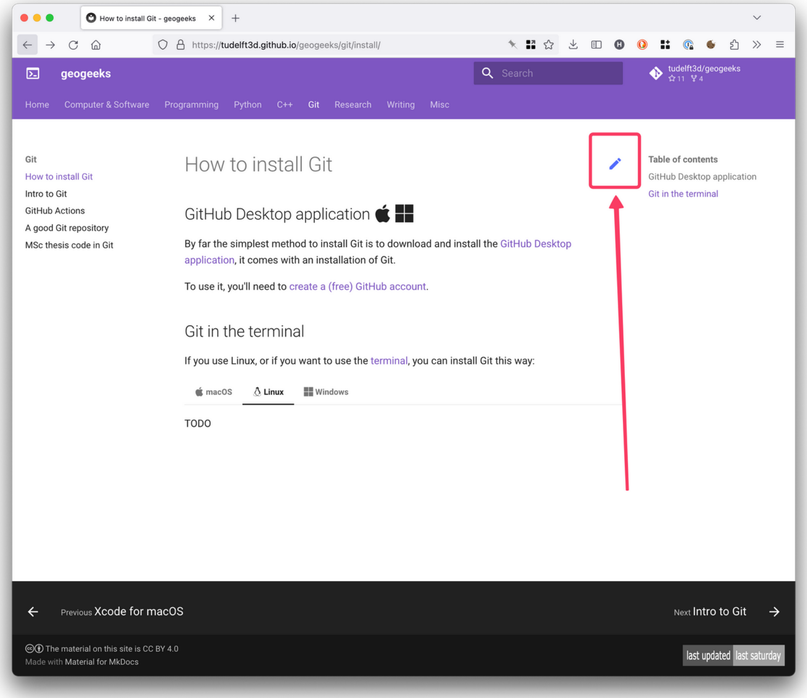
(spotted an error?)

(spotted an error?)

Spotted an error? A page is missing?

Then fix it!

geogeeks will only stay up-to-date if you help us!



If you update/fix geogeeks when you use it, it will stay updated!

menti.com

+

3465 9388

Choose your text editor

Good choices

- **PyCharm/JetBrains**: cross-platform, recommended for geomatics
- **vim**: you'll learn/use it tomorrow, very useful to know
- **SublimeText:** I personally love it, but €€€
- **Notepad++**: Windows-only, free

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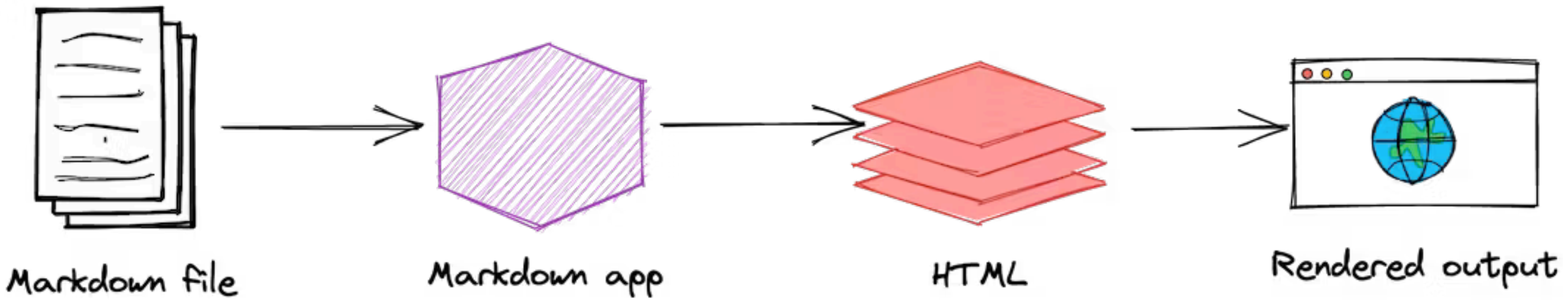
Markdown

Markdown is...



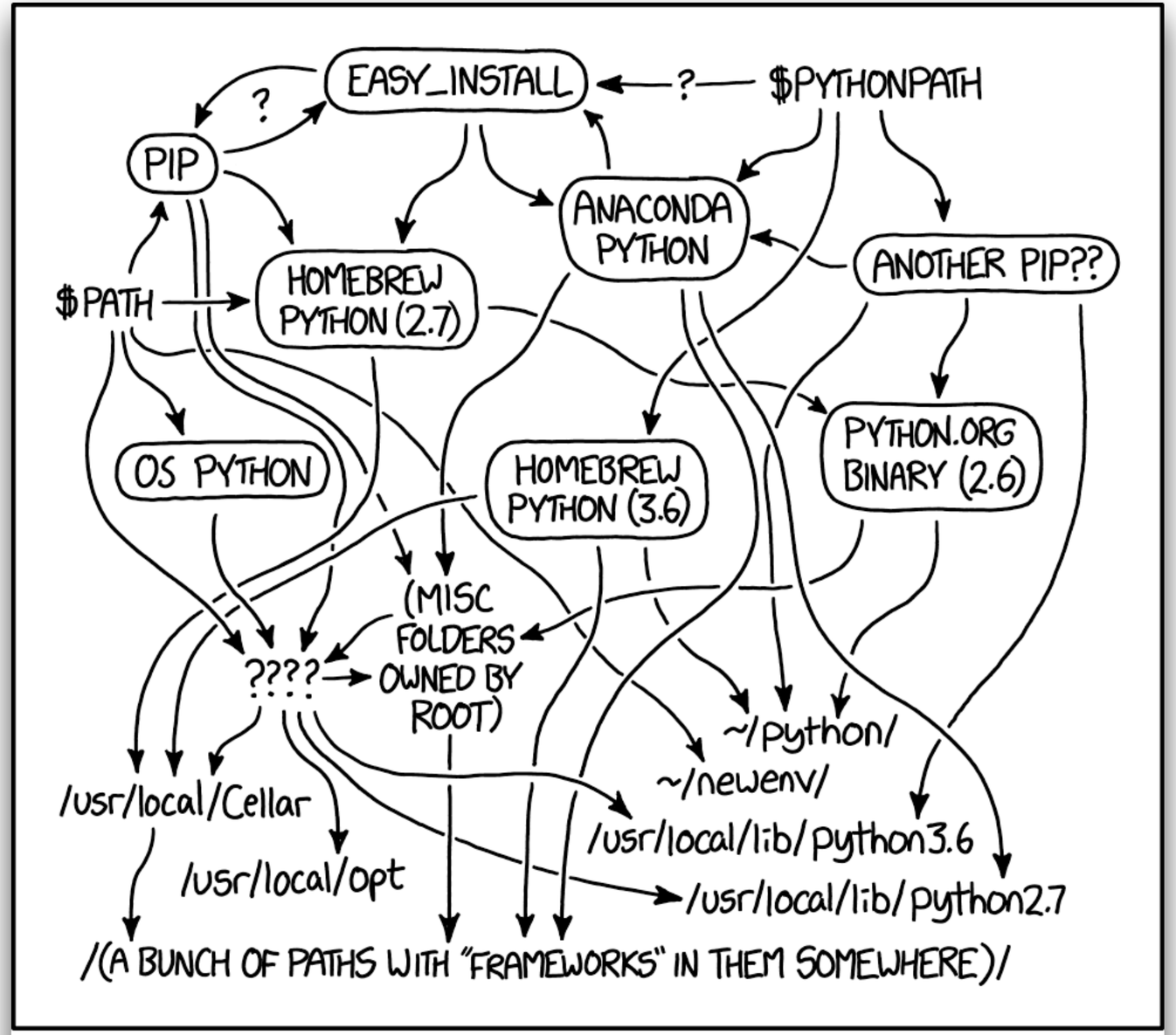
- a light markup language
- originally developed to make HTML writing simpler
- widely used on the web for docs (GitHub)
- used in Python Jupyter
- also for writing research articles (although MSc Geomatics favour LaTeX)
- **what we used to develop/write geogeeks website!**

LaTeX

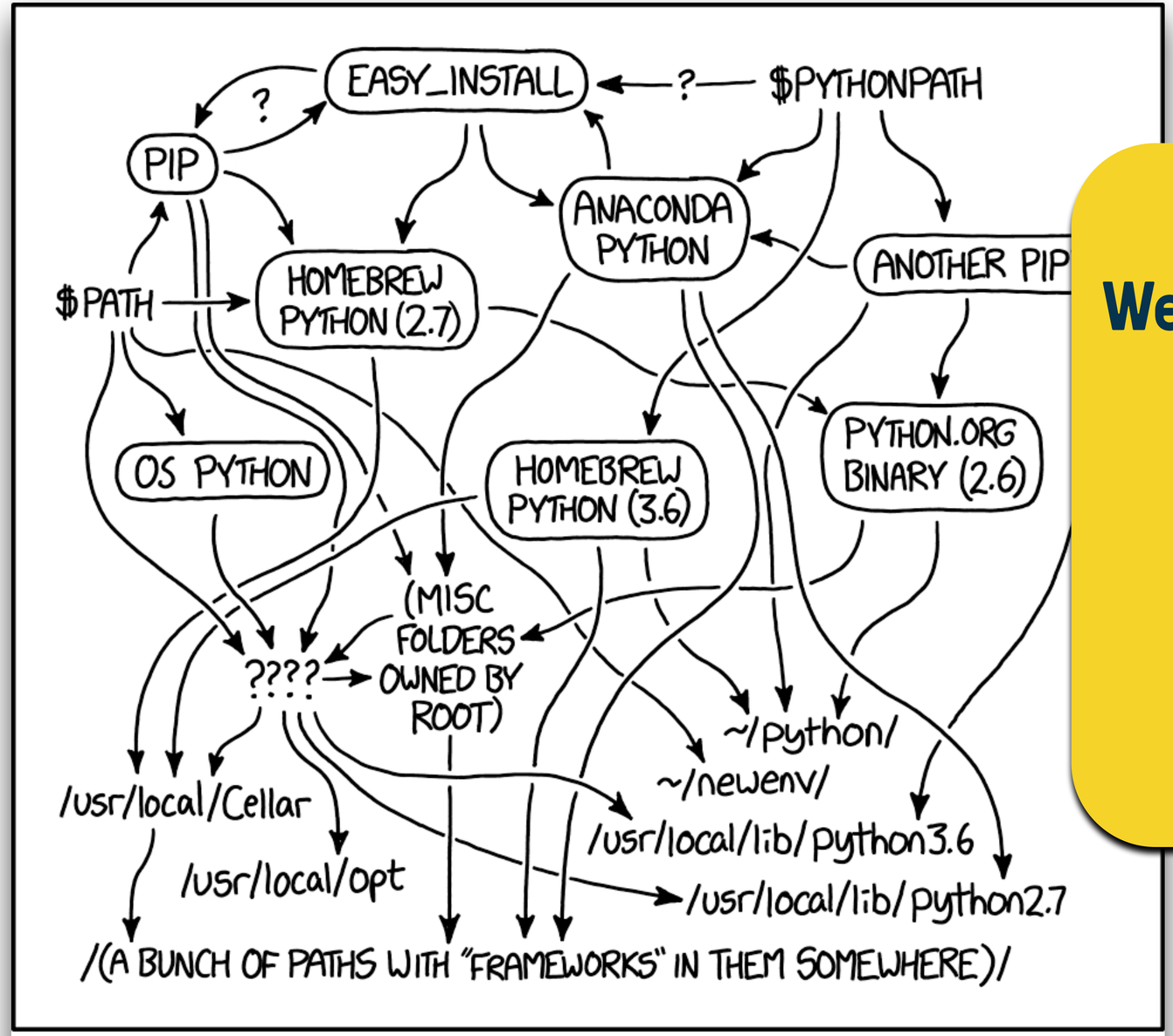
TODO

1. Register at <https://overleaf.com> with your `@tudelft.nl` email (for an account with more options, TUDelft pays for it)
2. Start with the template given and discover/try some features. Notice that this won't compile correctly because of the reference on line 26: the file `myreferences.bib` should be in the same folder
   - Copy the content of the second file to a file `myreferences.bib` and add it to the same folder
3. Check this [demo template](https://github.com/tudelft3d/latex-getting-started/tree/main/template) to know the best way to make complex things (tables, code, etc.)
4. When all this works, try to replicate [this PDF](latex_result.pdf)

Python venv



MY PYTHON ENVIRONMENT HAS BECOME SO DEGRADED
THAT MY LAPTOP HAS BEEN DECLARED A SUPERFUND SITE.



We will now learn how to avoid this!

Yes it's pretty simple!

Just use pyenv!

thank you.

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3d.bk.tudelft.nl/hledoux

TU Delft Delft University of Technology