Four years of Python

Tales of an (un)experienced Pythonhista

PyData Copenhagen 25/05/2022

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PyData

Who the *hell* am I?

- */du-art/*
- From Lisbon, based in Copenhagen
- I like running a lot
- Jeg snakker ikke dansk (bit ashamed)

- *Past:* Strategy, Product Management, New Ventures, Management Consulting
- *Now*: ML Engineer @ Amplemarket / Contractor
- *Always*: Python (and Computers in general)

This is not a technical talk.

`if years_of_experience <= 4:`

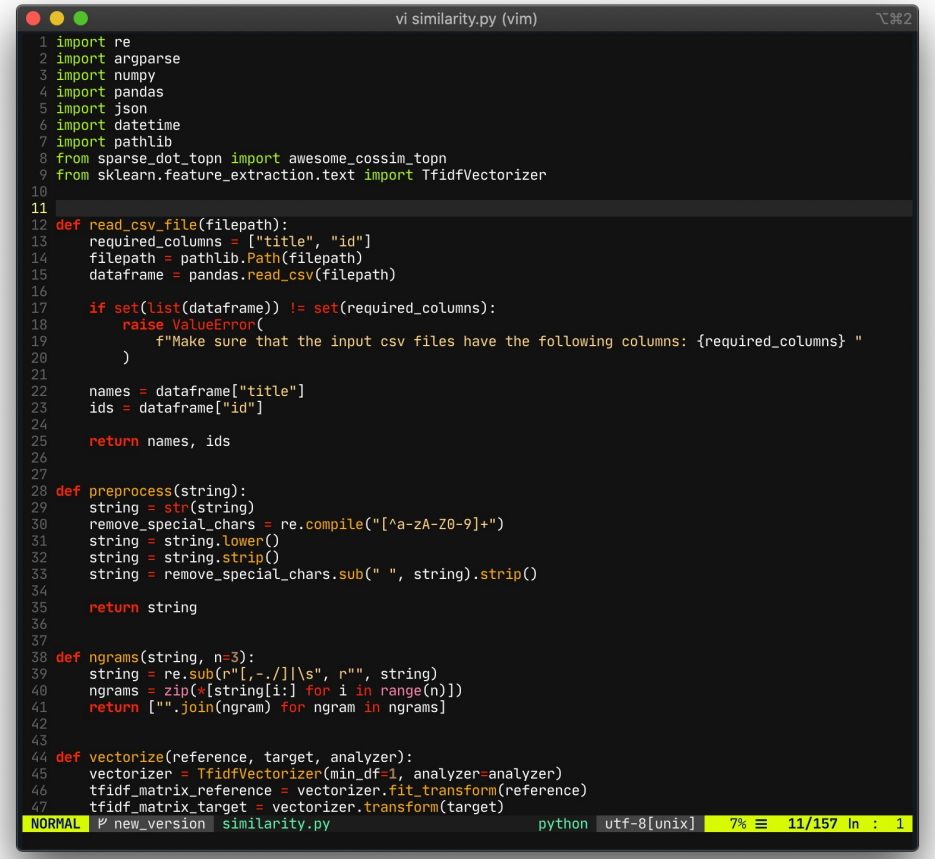
- How to be a better dev
- Tips and tricks
- Opinionated advice

`else:`

- Reminisce
- Celebrate
- Stay intentional

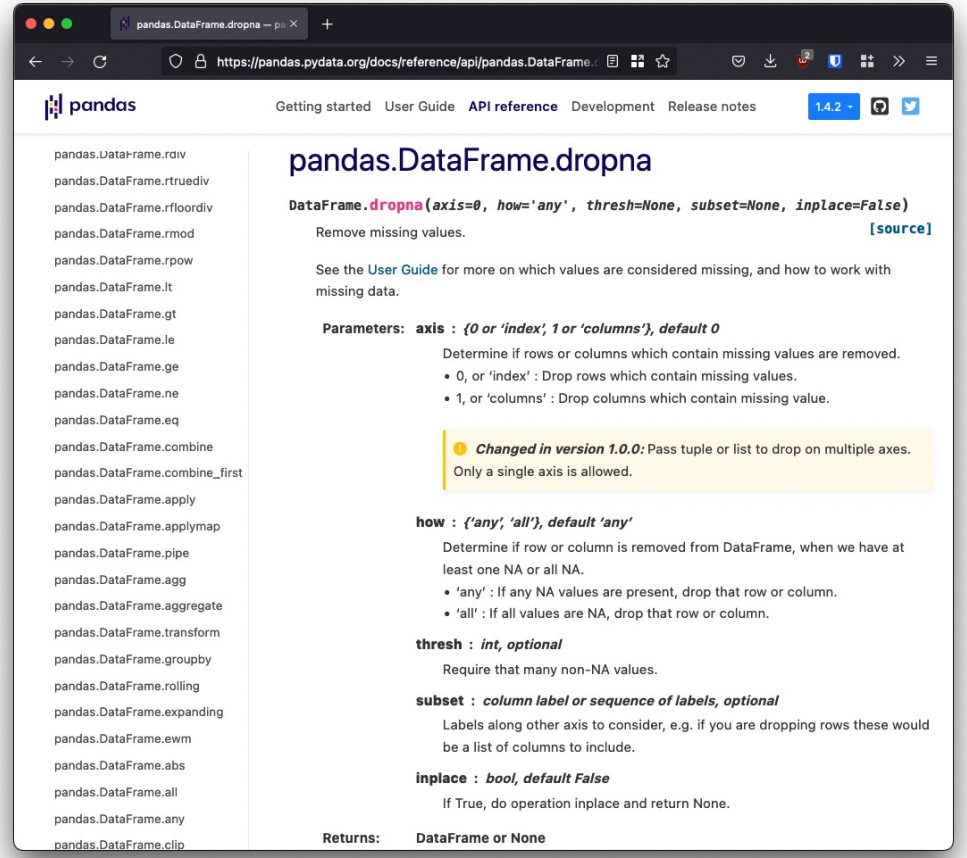
1 | Reading is better than googling

When we start, we have *superpowers*



- Autocomplete
- Google
- Stack overflow
- Nails everywhere
- Pip install the world
- But.. We forget quickly

But there’s quite nothing like reading



- What does it do?
- Options?
- Default behaviors
- Maybe I can re-use this
- **It *actually* sticks**

2 | Explicit is better than implicit

“I can make this program shorter”

```
print len((lambda lookandsay: (lambda func1, in1, current_depth1, target_depth1:
func1(func1, in1, current_depth1, target_depth1))(lambda self, _in, current_depth,
target_depth: _in if current_depth == target_depth else self(self, ''.join('%d%s'
% (len(seq), seq[0]) for seq,trash in re.findall(r'((\d)\2*)', _in)),
current_depth + 1, target_depth), lookandsay, 0, 40))(_input))
```

```
print len((lambda lookandsay: (lambda func1, in1, current_depth1, target_depth1:
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current_depth + 1, target_depth), lookandsay, 0, 40))(_input))
```
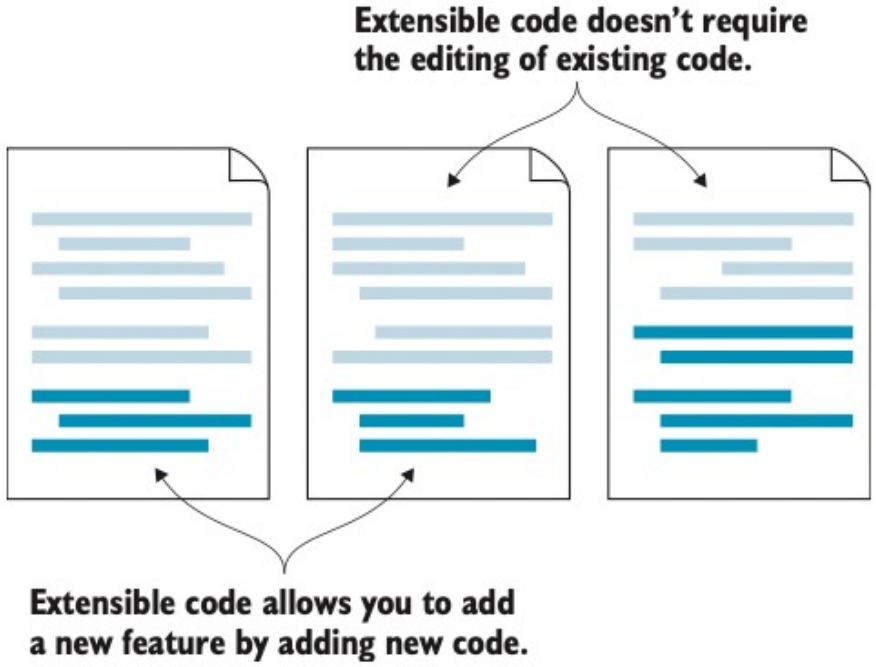
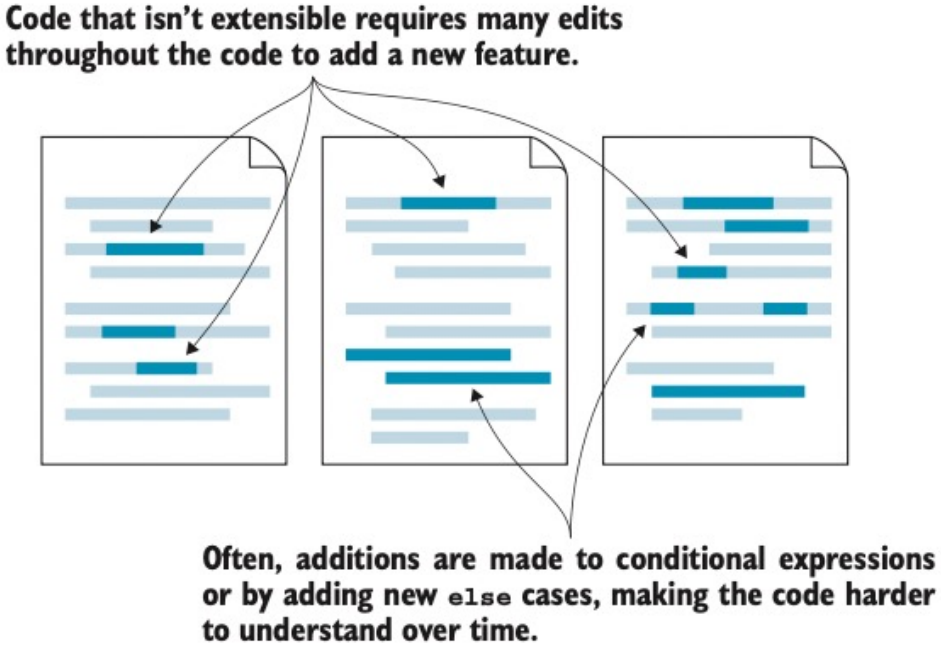

Less lines = better code

```
strings = [x if isinstance(x, str) else pass for index, x in enumerate(list_)]
```

```
Scheduler, State Machine, Abstract, Controller, Operator…
```

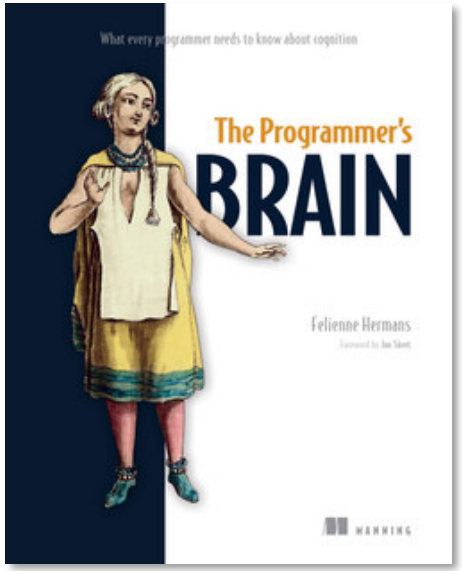




[Reference: Practices of the Python Pro]

Less lines != better code

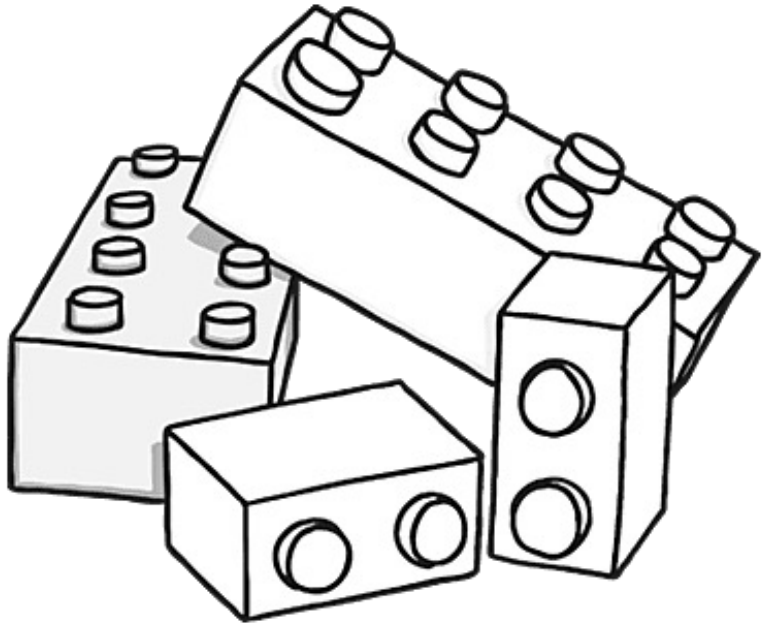
- Readable
- Understandable
- Changeable
- Shareable
- Enjoyable



3 | First make it work, then make it pretty


DUNKIN' DONUTS
SHY BIR

First make it work, then make it pretty



- The bare minimum
- Catching all exceptions
- 100% code coverage
- That weird edge case
- Do users care?
- What NOT to write

More ranting: duarteocarmo.com/blog/simple-software

4 | Test early, test often

Tests are a mirrage....

- 80% projects don’t
- Value is not obvious
- Users don’t see them
- Bugs can still happen

Tests are a mirrage....But they matter!

- 80% projects don’t
- Value is not obvious
- Users don’t see them
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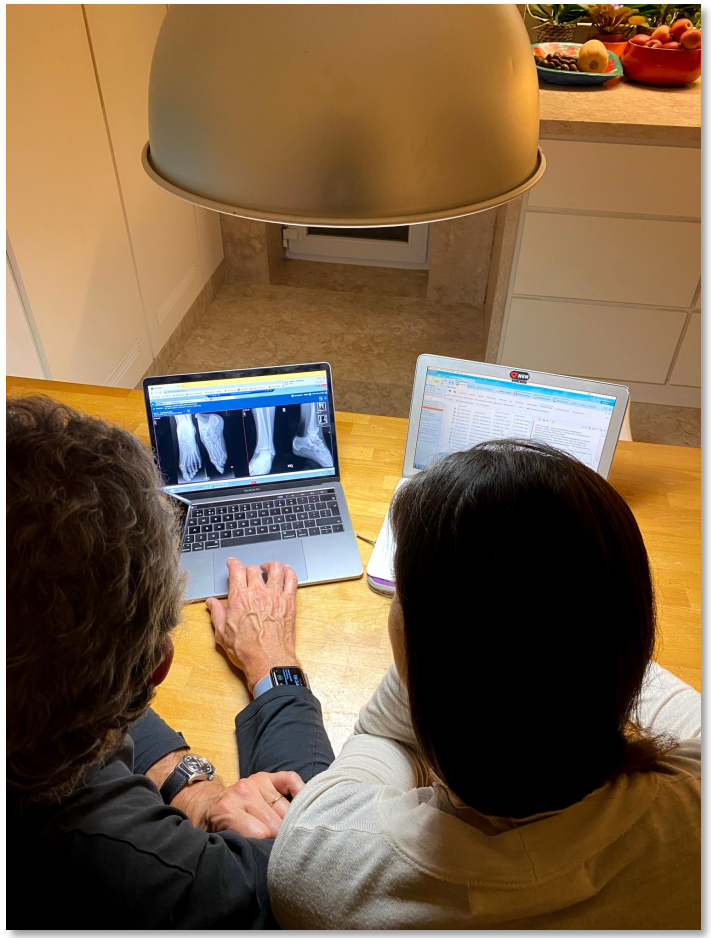
- Yours should
- Deploy with confidence
- What if the app goes down?
- Minimizing vs. Eliminating

5 | Continuously learn

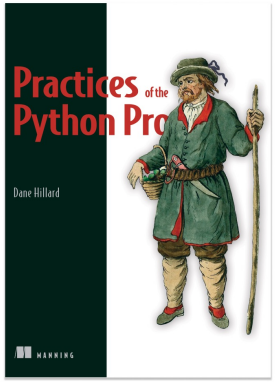
Python is our craft

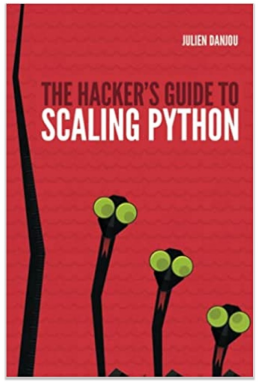


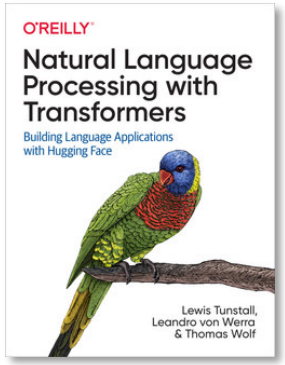

EINSTEIN TINHA RAZÃO?
Testando a Teoria da Relatividade Geral
Clifford M.Will
Portugal
Madeira
NOVO
ATLAS
GEOGRÁFICO

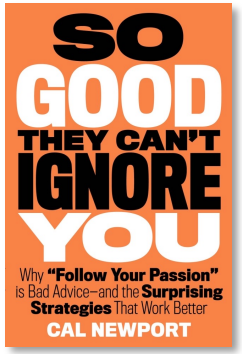
We should be masters of our craft

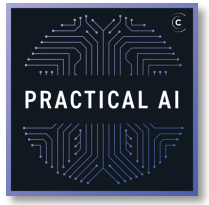
- Study
- Stay up-to-date
- Lean regularly
- Build things
- Give back and write











An OCD list of resources I use

Books

Practices of the Python Pro

Hacker's guide to scaling Python

Designing Data-Intensive Applications

Serious Python

Tutorials

Flask Megatutorial

RealPyton

Stack Abuse

Kaggle + GitHub

YouTube

CodingTech

Sentdex

Theo

MLOPs Community

Podcasts

Talk Python to Me

Python Bytes

Podcast.__init__

Practical AI

News

PyCoder's Weekly

Medium

Awesome Python Weekly

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Thank you, questions?