EUROPYTHON 2018

2002 FIRST

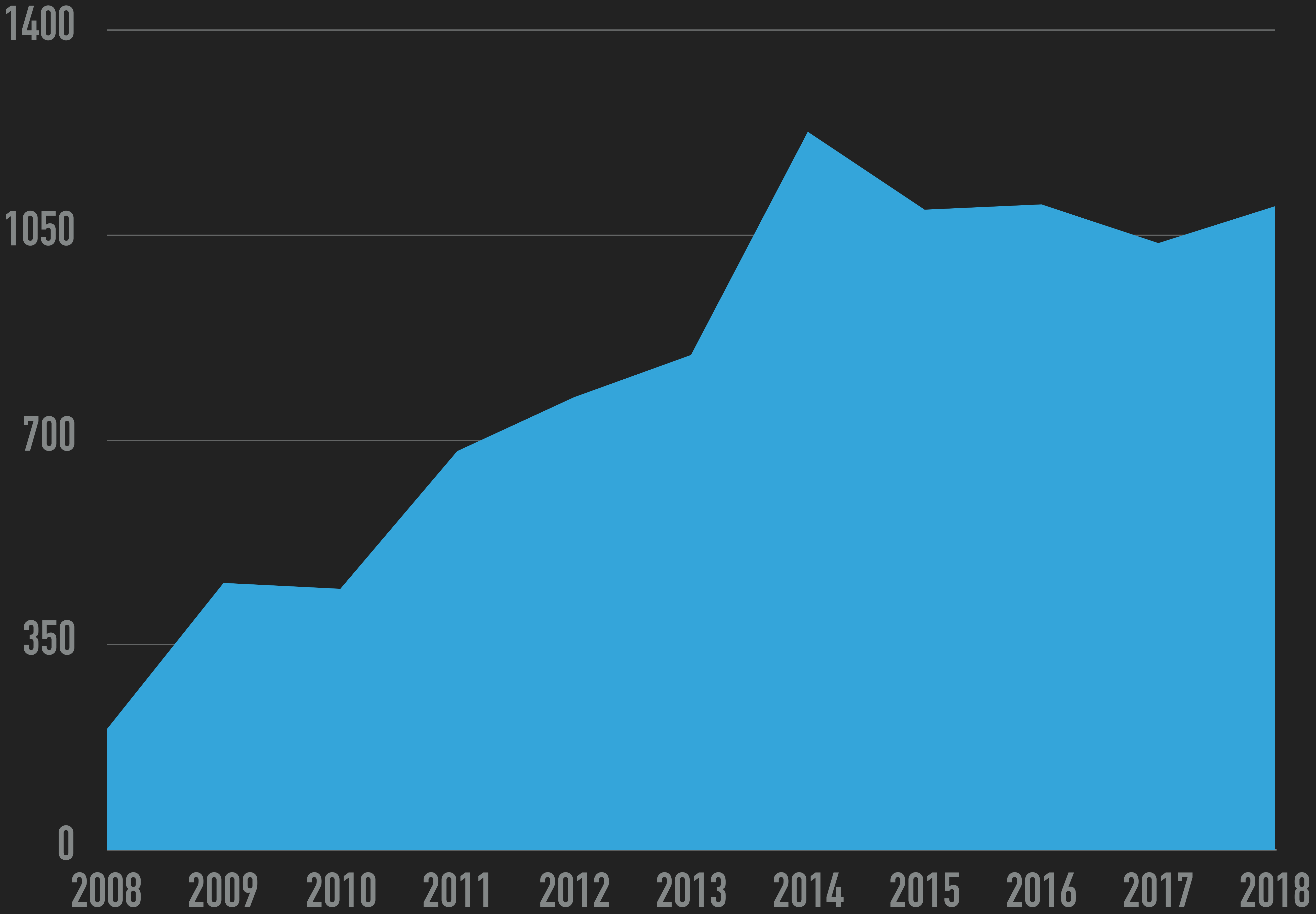
2004 EUROPYTHON SOCIETY

2008 LITHUANIA

EuroPython Society

👤 45+

🚀 12 WGs


1400
1050
700
350
0
2008
2009
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2011
2012
2013
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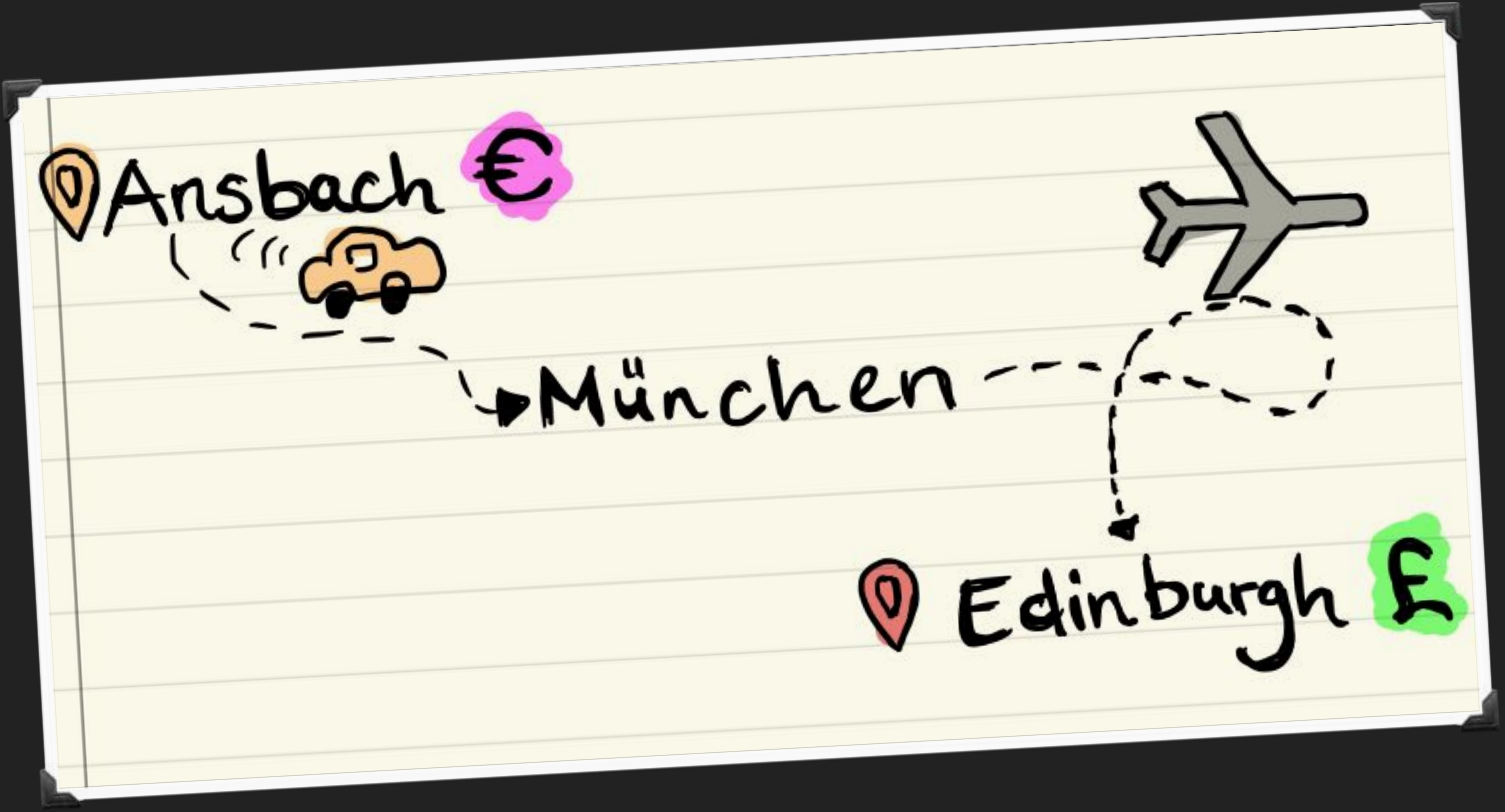
2017
2018

2018

EDINBURGH


Ansbach €
München
Edinburgh £

EDINBURGH
zalando

1100+

40+

33

📍 6

🕒 30m

📖 133

TODAY

20m Recap

by Fabian, Niklas and Goran

NOTE-TAKING

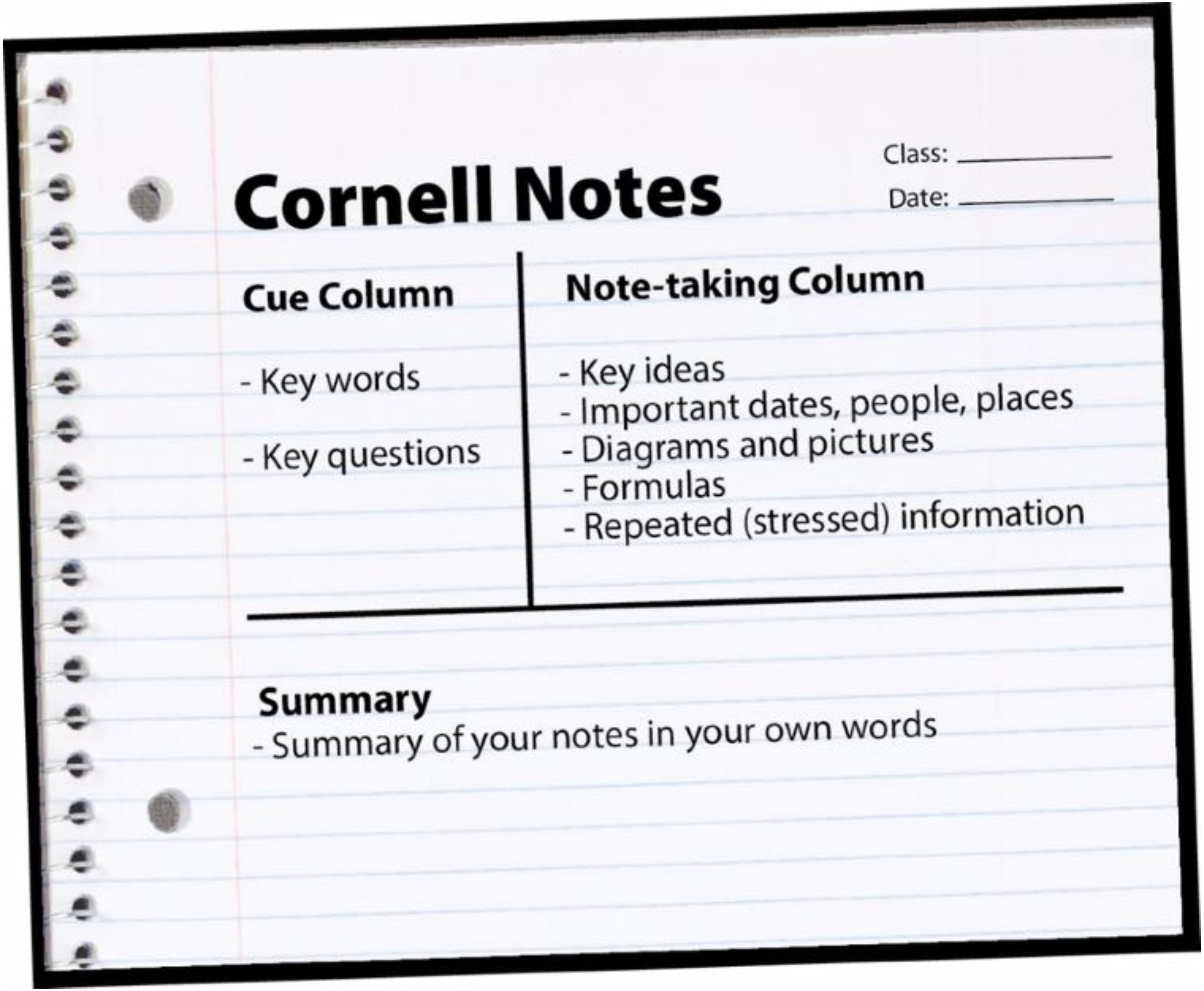
Outline Method

- Main Point 1
  - Sub Point 1
    - Sub Sub Point
  - Sub Point 2
- Main Point 2

  ....

+ simple
+ fast
+ hierarchy

Cornell Method



Cornell Notes

Class: ____________

Date: ____________

Cue Column

- Key words
- Key questions

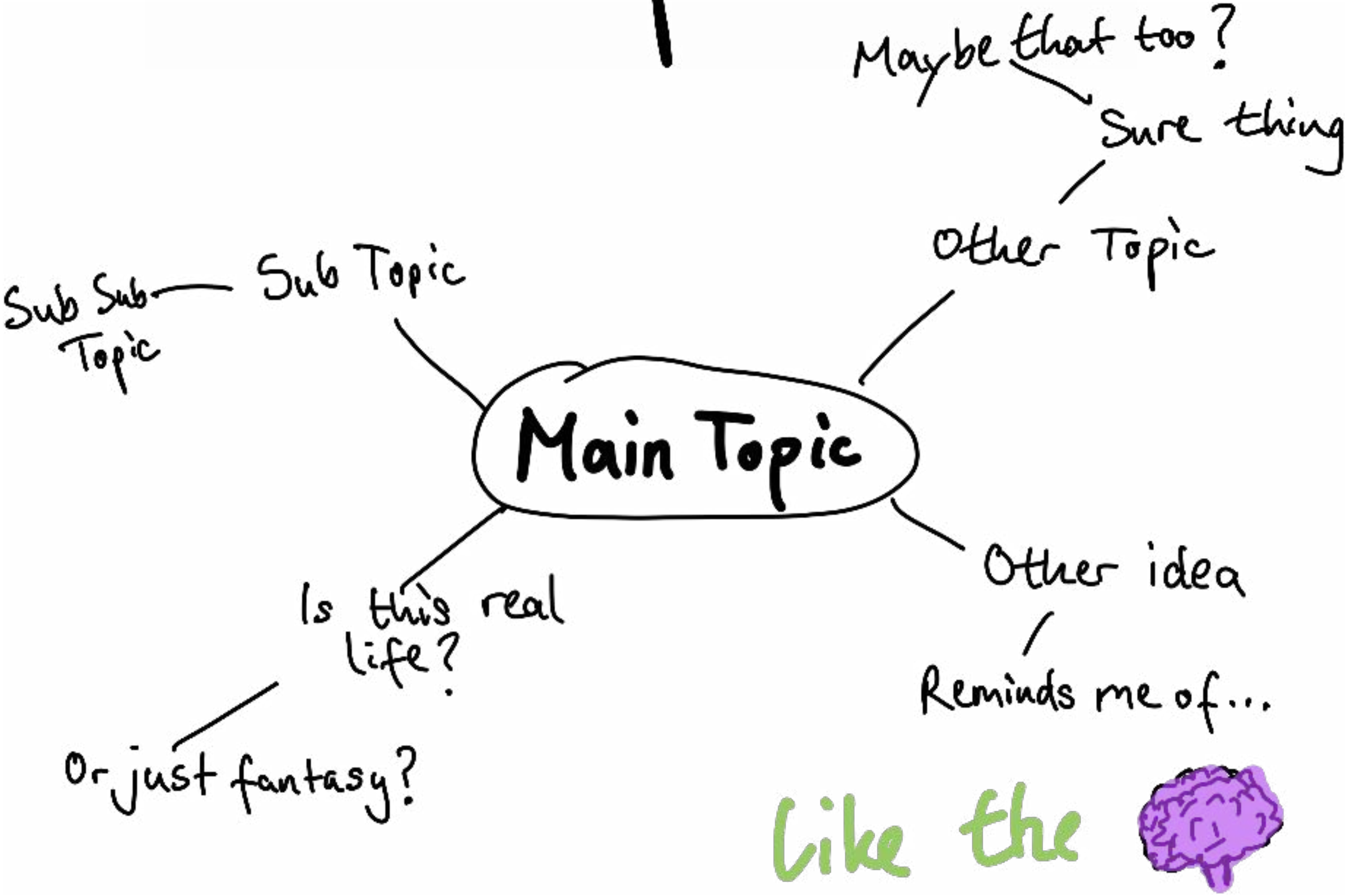
Note-taking Column

- Key ideas
- Important dates, people, places
- Diagrams and pictures
- Formulas
- Repeated (stressed) information

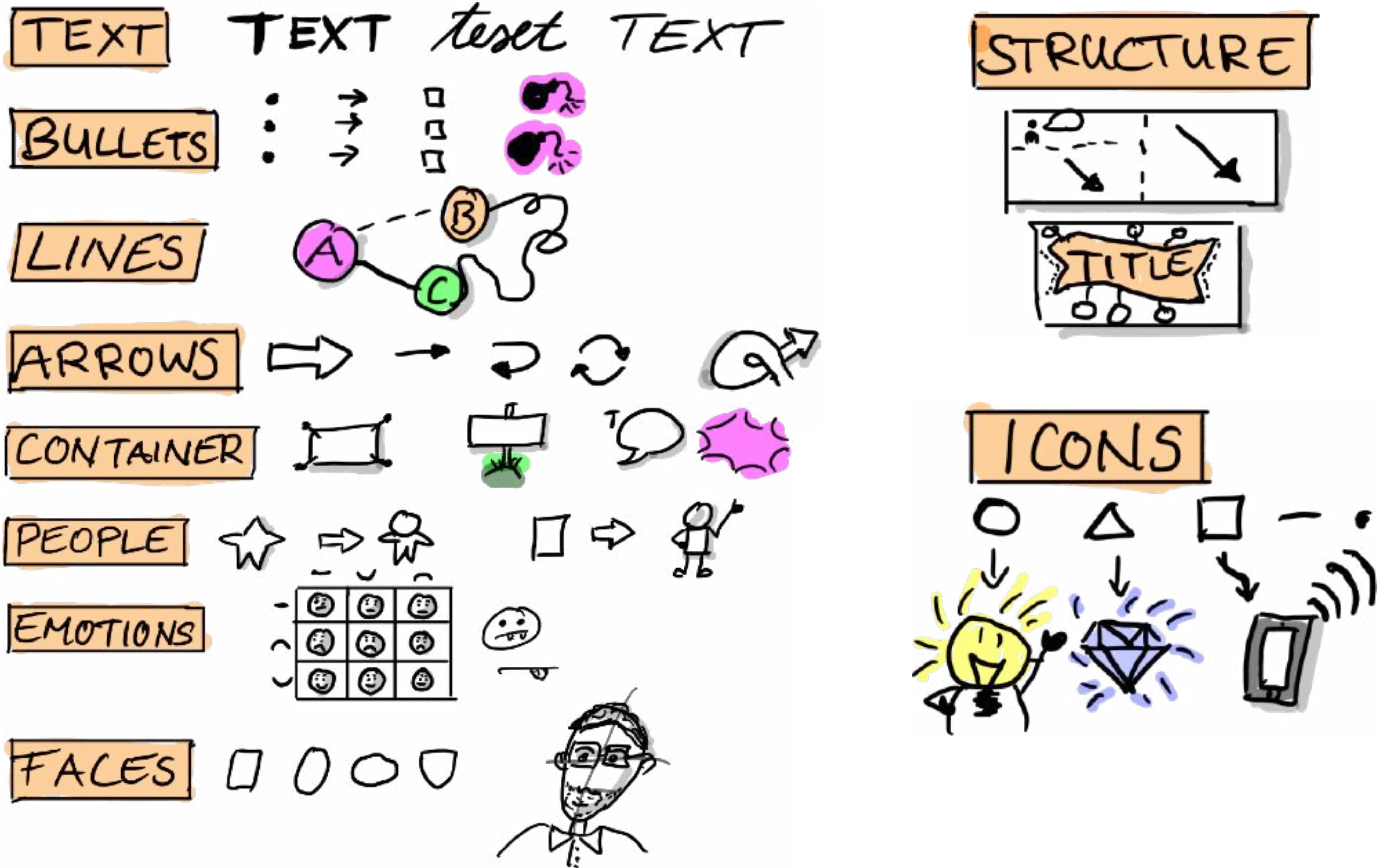
Summary

- Summary of your notes in your own words

Mind Map Method



Sketchnoting Method 1



Sketchnoting Method 2

→ „IDEAS NOT ART"

— Mike Rohde

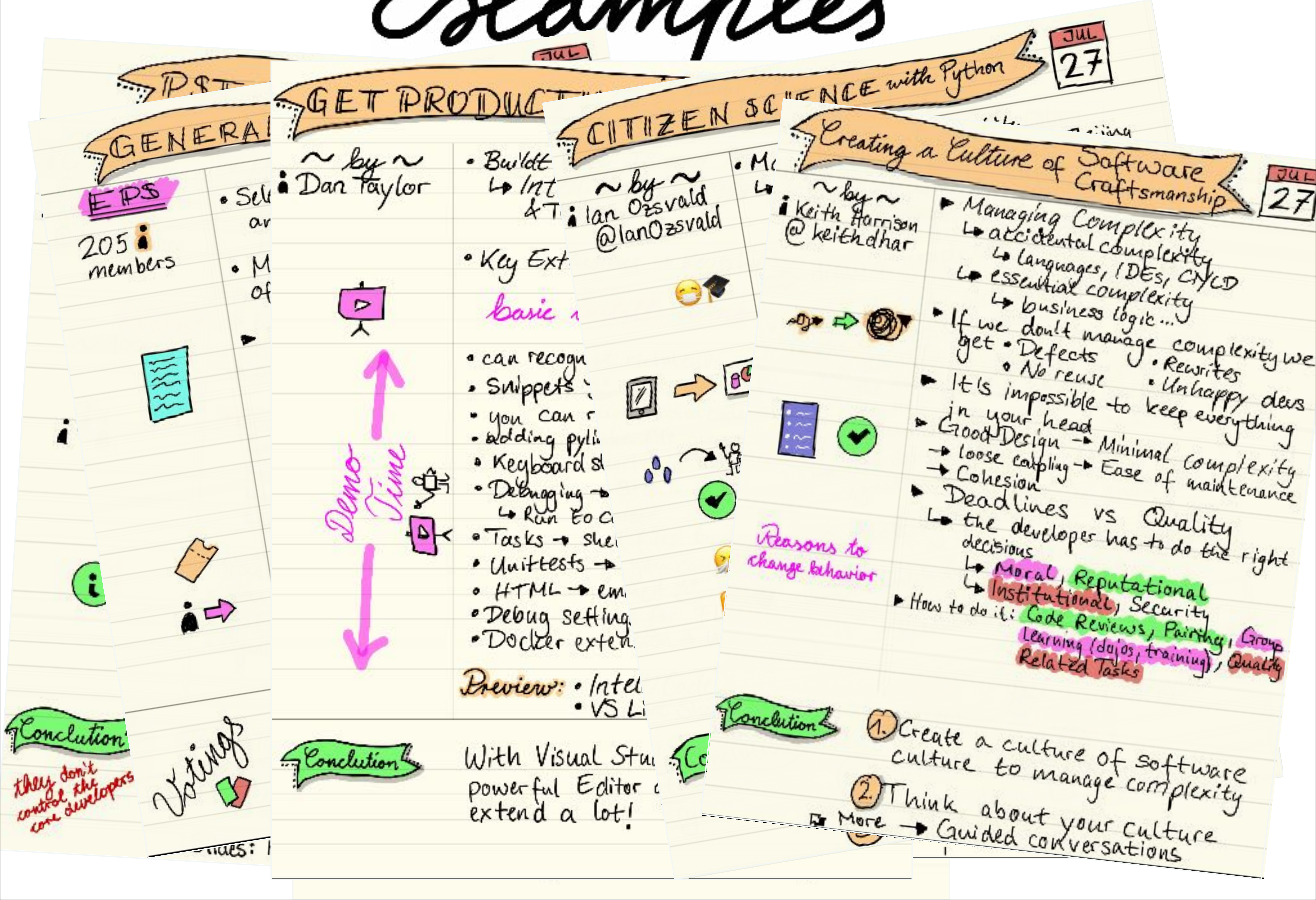
„Sketchnote Handbuch" → The bible

1. Use highlighted **TEXT**

2. Use • Bullets, , ⇨ Arrows, CONTAINER, People, Emotions, Faces, Structure & Icons!

3. Use GREY to highlight

Examples



PST JUL

GENERAL

EPS

205 members

- Sel ar
- M of

Conclution

they don't control the core developers

Votings

...ues:

GET PRODUCT

~ by ~
Dan Taylor

Demo Time

- Buildt
  - Int & T
- Key Ext

basic

- can recogn
- Snippets
- you can r
- adding pyli
- Keyboard sl
- Debugging
  - Run to c
- Tasks → shel
- Unittests →
- HTML → em
- Debug setting
- Docker exten

Preview: • Intel
• VS Li

Conclution

With Visual Stu powerful Editor extend a lot!

CITIZEN SCIENCE with Python JUL 27

~ by ~
Ian Ozsvald
@IanOzsvald

- M

Creating a Culture of Software Craftsmanship JUL 27

~ by ~
Keith Harrison
@keithdhar

- Managing Complexity
  - accidental complexity
    - languages, IDEs, CI/CD
  - essential complexity
    - business logic...
- If we don't manage complexity we get • Defects • Rewrites • No reuse • Unhappy devs
- It's impossible to keep everything in your head
- Good Design → Minimal complexity
  - loose coupling → Ease of maintenance
  - Cohesion
- Deadlines vs Quality
  - the developer has to do the right decisions
    - Moral, Reputational
    - Institutional, Security
- How to do it: Code Reviews, Pairing, Group Learning (dojos, training), Quality Related Tasks

Reasons to change behavior

Conclution

1. Create a culture of software culture to manage complexity
2. Think about your culture

More → Guided conversations

MY TOP TALKS

„THE RUST TALK"

→ How to write Rust insted of C and get away with it

~ by ~

- Antonio Verardi
  ↳ @porosVII
- Flavien Raynaud
  ↳ @flavray

- Problem → slow → scale up/out ✓!

✗ ↳ change interpreter (PyPy)

✗ ↳ use C extensions

↳ ctypes/ciffi, CPython, fastarvo

Conclution

If you **need** to write a C extensions, try rust!

↳ but try pypy first

rust is also fast!

→ „It looks like Python"

TRIO: A PYTHONIC WAY TO DO ASYNC PROGRAMMING

~ by ~

Emmanuel Leblond
@touilleMan
→ github.com/touilleMan

▷ 2002 (Twisted) the beginning

↳ primitive like in 2000 → bad
↳ promises → better
↳ async/await → great? for the most part

- runs even with errors 🤨

progress

TRIO: What if we drop the "old" way and focus on async await...? 🤔

✓

↳ simple library
↳ it works
↳ small building blocks to build big things

REAL WORLD Yes you can use it to solve real problems!

AUTISM in development

~ by ~
Ed Singleton
@Singletoned

Side Effects

- Repetition/Obsession
- Over stimulation
- Meltdowns
- Social awkwardness
- Stubborness
- „Fizzy Mind"

Correlation

- Insomnia
- ADD/ADHD
- Eating disorders
- Low muscle tone
- Alcoholism
- Clumsiness

Neurological differences

- Larger brains
- More neurons

Benefits

- Systemizing
- Radical honesty
- More spare times
- Repetition/Obsession
- Originality of thinking
- Attention to detail

Maybe you need autism to progess in some fields 🤔

Conclusion

- Sometimes that distant "guy" might be autistic.
- Less smell, less noice is good for everyone!
- Sane meeting practice is a must!

PYPI: PAST, Present & FUTURE

JUL 26

~ by ~

Nicole Harris

11,2 Billion request per year

$ 118 000 /month

1,3 million unique per month

- member of Python Packaging Authority (PyPA) member
- PyPI the place to share your code so others can use it
- Launch of pypi in 2002–2003
  - ↳ 2004 easy install
  - ↳ 2005 file uploads
  - ↳ 2007 the design of today

It grew a lot!

- pre 2012 → one server
- 2013 → CDN Fastly
- 2014 → Rackspace (GlusterFS)

▶ Problems: cosustom, hard to maintain, new contributors by a factor 😱

1,3 million unique 👤 per month

- pre 2012 → one server
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- 2015 - ware house with pyramid
  Docker, Elasticsearch, CI, modern
  ↳ moved slowly because of funding from Mozilla it was accelerated

🚀

April 2018 RELEASE ➡ Delivered on time and budget 🎉
↳ Next: make it even better

...o (?) But there are some questions...?

Conclution

The new pypi was a success! It is now maintainable and ready for the future.
But you can help the project!

9:15-10:00

☑ ToDo
- Verify ✉
- Engage
- Contribute
- Donate
- Thank ❤

→ tinyurl.com/pypi2018

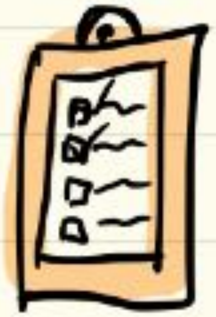
EDUBLOCKS Making the transition to Python easier!

JUL 27

~ by ~
Joshua Lowe
@all_about_code
@edu-blocks
↳ 14 years old

- Scratch → drag and drop programming language (age 7)
- Python is introduced in age 12-13
  - ↳ loose interest because 5 years of Scratch
- Why not earlier? (Python)
  - ↳ Lach of typing skills
  - ↳ teacher training is lacking (74%)

⇨ We need a Scratch-like interface for Python 3 → Edu Blocks



- display Python code in blocks
- view pure Python code with a button
- download .py file

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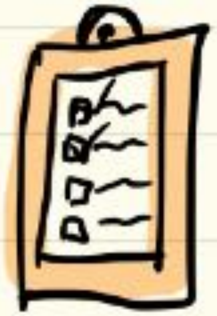

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→ works on Raspberry Pi
→ program with Minecraft
→ physical computing
→ Python 3 ✓

→ used in 90+ countries
→ it's free!

Demo

↑ (it's written in Typescript (converted in JS and send to node.js)

10:30 – 11:15

Conclution

It is even better than Scratch because it is real Python and enables children to get coding in Python!

please consider contributing! ☺

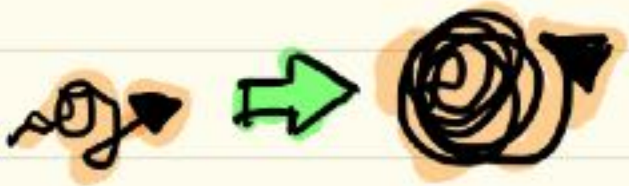
More

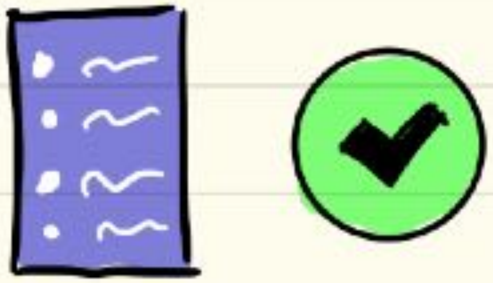
- BBC micro:bit
  ↳ MicroPython
- more platforms
- more learning resources

Creating a Culture of Software Craftsmanship

JUL 27

~ by ~
Keith Harrison
@keithdhar





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Thank you!