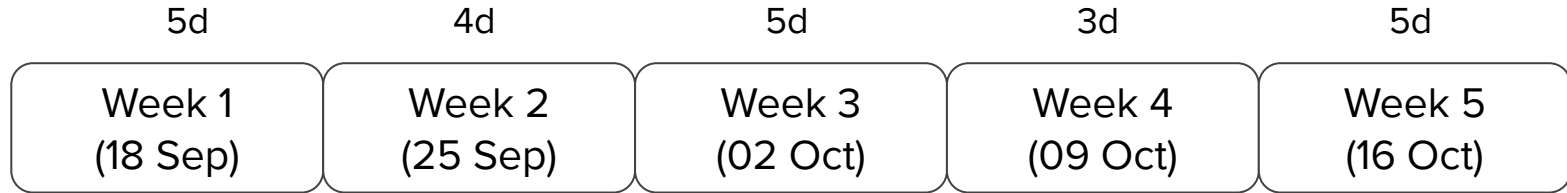# About the course

Isaac Boixaderas

Schedule

- September 18 to October 20.

- 9:30h to 14:30h (5 hours/day).

- Holidays:
  - September 25.
  - October 12.
  - October 13.

- 100h for Python.

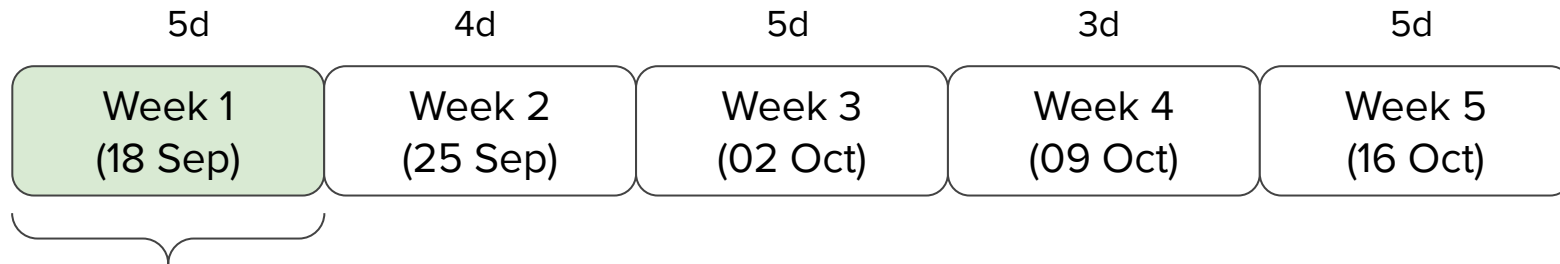- 10h for "Formació Complementària".

Daily schedule

- 9:30h – 10:40h   Finish and submit previous day exercises.

- 11:05h – 13:00h   Theory + exercises.

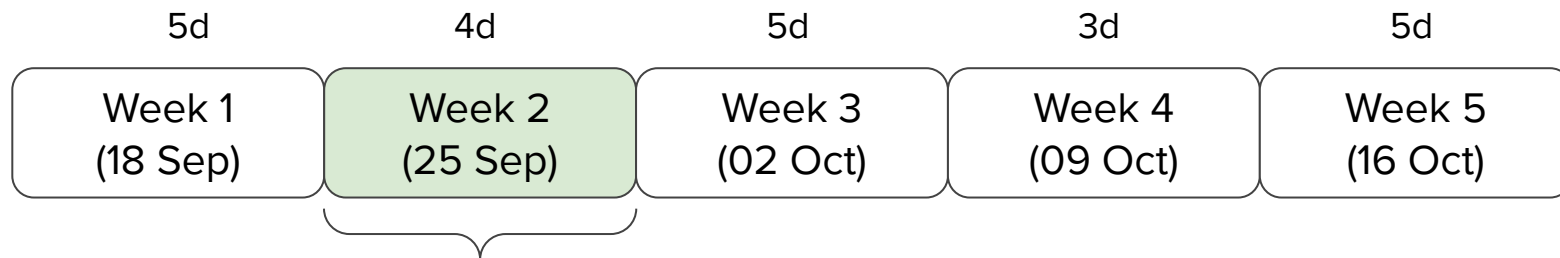- 13:20h – 14:30h   Exercises.

Syllabus

5d	4d	5d	3d	5d
Week 1 (18 Sep)	Week 2 (25 Sep)	Week 3 (02 Oct)	Week 4 (09 Oct)	Week 5 (16 Oct)

Syllabus

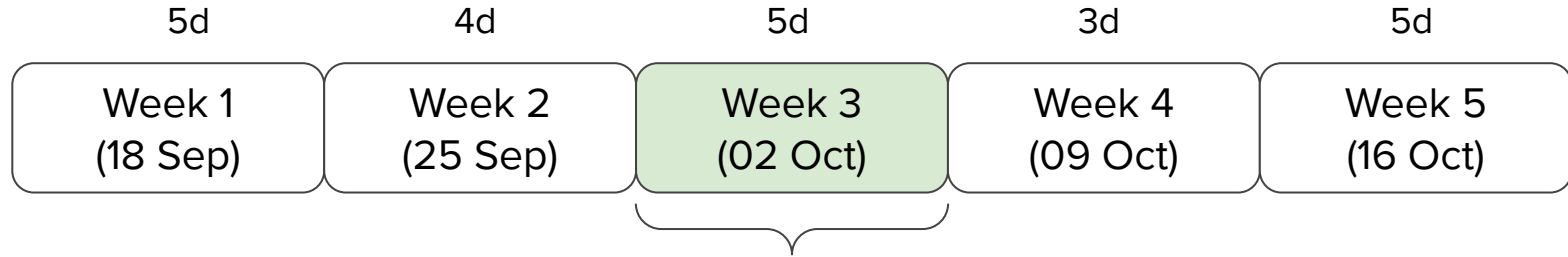| 5d	4d	5d	3d	5d
Week 1 (18 Sep)	Week 2 (25 Sep)	Week 3 (02 Oct)	Week 4 (09 Oct)	Week 5 (16 Oct)

1. Intro, install environment, first concepts
2. Integers, Booleans, Strings
3. Conditionals
4. Lists and loops
5. Tuples, Sets, Dictionaries

Syllabus

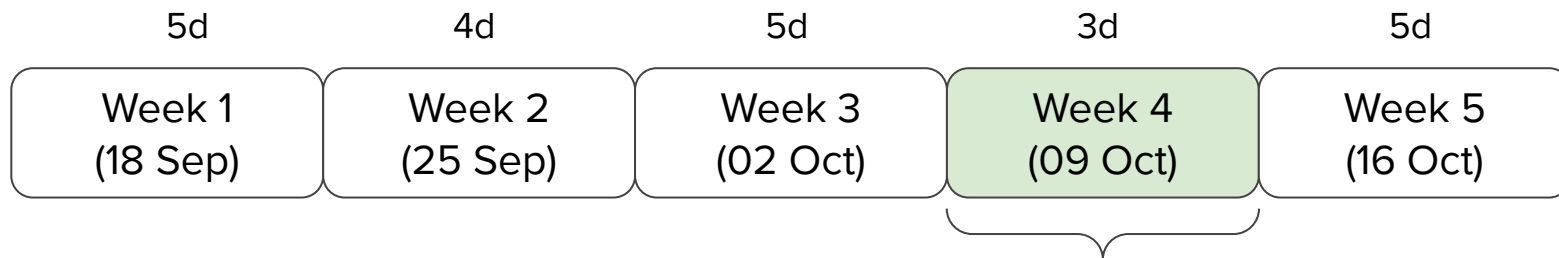| 5d	4d	5d	3d	5d
Week 1 (18 Sep)	Week 2 (25 Sep)	Week 3 (02 Oct)	Week 4 (09 Oct)	Week 5 (16 Oct)

6. Functions
7. Variable scope and assignment + None + is
8. Libraries: os, sys, itertools, datetime, numpy + custom
9. Libraries: matplotlib, pandas

Syllabus

5d	4d	5d	3d	5d
Week 1 (18 Sep)	Week 2 (25 Sep)	Week 3 (02 Oct)	Week 4 (09 Oct)	Week 5 (16 Oct)

10. OOP
11. Inheritance
12. Exceptions
13. Files
14. Tkinter

Syllabus

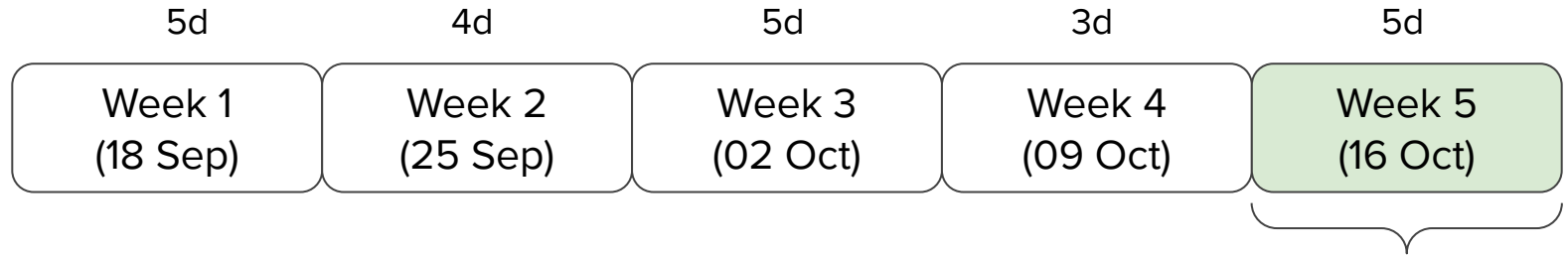| 5d	4d	5d	3d	5d
Week 1 (18 Sep)	Week 2 (25 Sep)	Week 3 (02 Oct)	Week 4 (09 Oct)	Week 5 (16 Oct)

15. DBs
16. Web
Ideas (select only 1):
- Testing
- ML
- Decorators
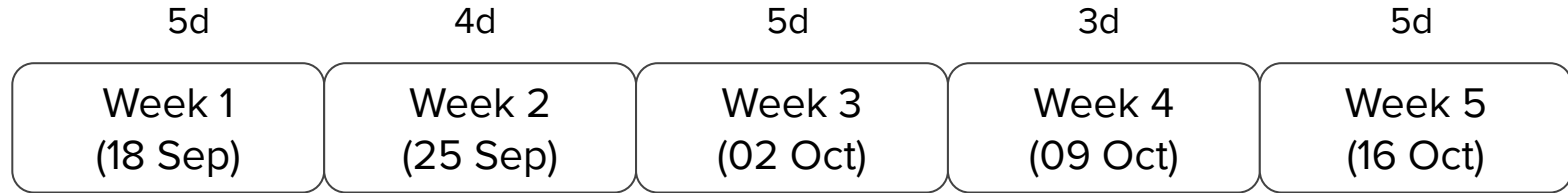- Programming Languages
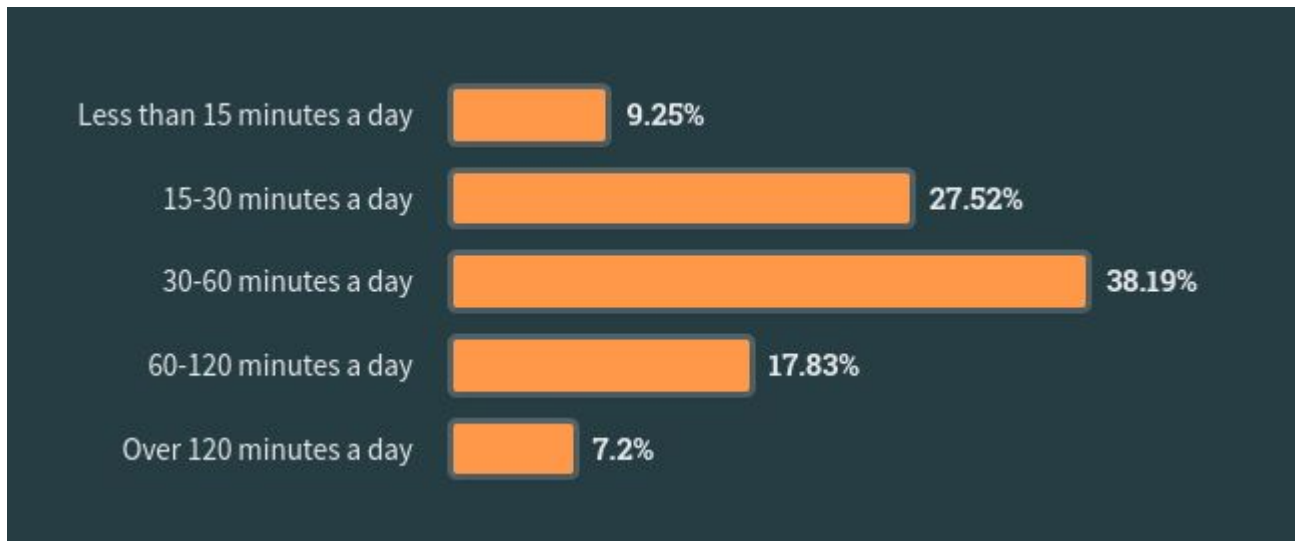- Regex
- Complexity
- Debugging
- Scraping

Syllabus

5d	4d	5d	3d	5d
Week 1 (18 Sep)	Week 2 (25 Sep)	Week 3 (02 Oct)	Week 4 (09 Oct)	Week 5 (16 Oct)

18. Final project (FP)
19. FP
20. FP + Exam (theory)
21. FC
22. FC

Syllabus

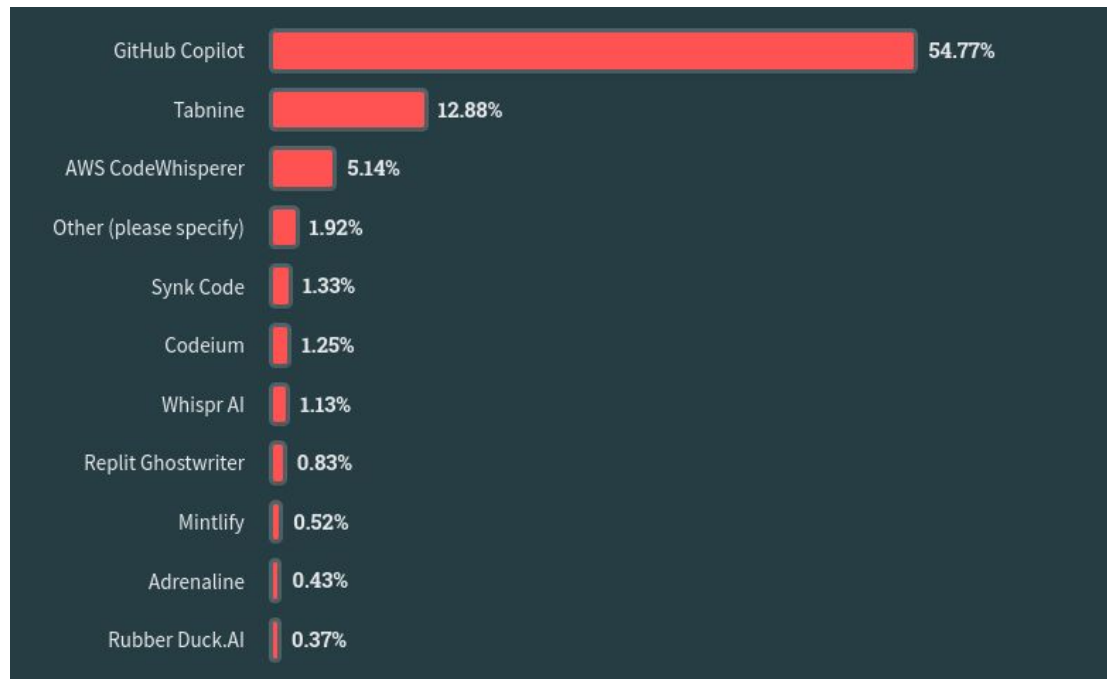| 5d	4d	5d	3d	5d
Week 1 (18 Sep)	Week 2 (25 Sep)	Week 3 (02 Oct)	Week 4 (09 Oct)	Week 5 (16 Oct)

Cumulative Knowledge

Stackoverflow Survey 2023

- Daily time spent searching for answers/solutions:

Stackoverflow Survey 2023

- AI developer tools:

Bibliography and Resources

- Beginner:

  - https://www.learnbyexample.org/python/

  - https://github.com/Asabeneh/30-Days-Of-Python/tree/master/05_Day_Lists

  - Matthes, E. (2023). Python Crash Course: A Hands-On, Project-Based Introduction to Programming (3rd ed.). No Starch Press.

- Intermediate:

  - https://book.pythontips.com/en/latest/

Course drive

- http://bit.ly/python_sep_23

- Once accessed, bookmark it!

Exercises

- If there is something not working during the exercises…
    - get frustrated for 10-15min before asking for help :)