Introduction

Hello world!

What we plan to do

Learn Python

Learn Tools

script simple stuff

Data analysis and plotting

Write full pipelines for analysis
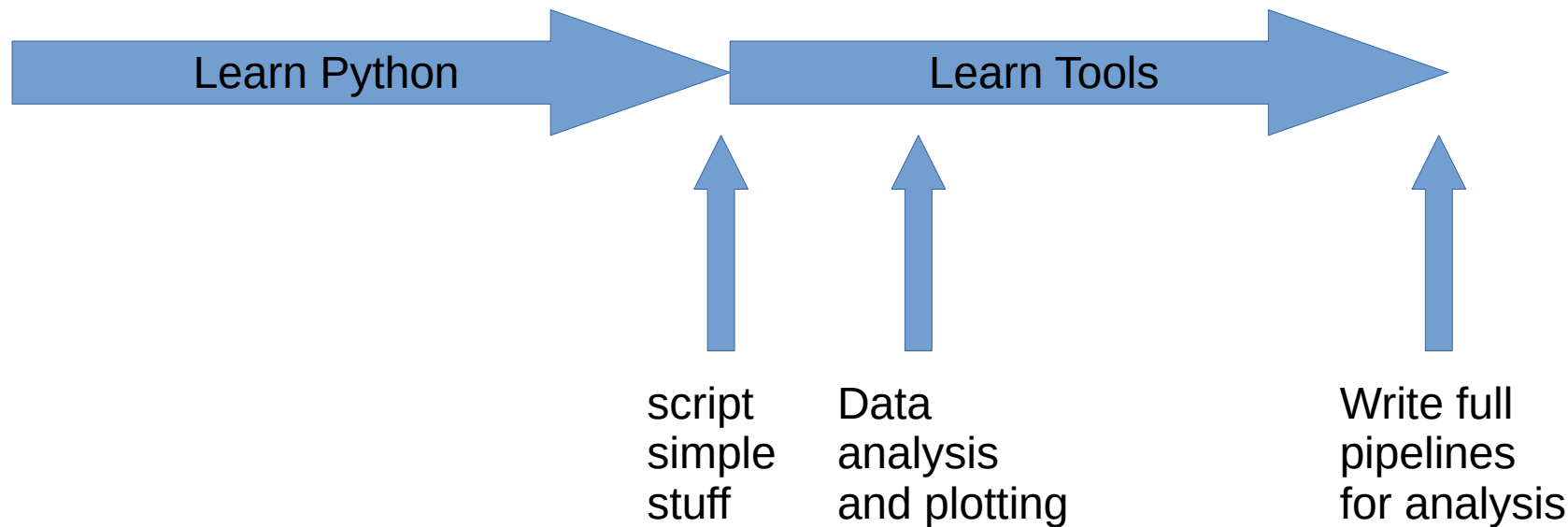
Practical info

- GitHub
- Course info
- Installation
- Learning objectives

Week 1

Day 1: Introduction, Simple Python

Day 2: Data types, Program logic, Loops & Control flow

Day 3: Functions, Code structure, Good code practice

Day 4: File handling, practice day

Day 5: Modules, advanced functions, error handling + practice

Week 2

Day 1: Object-oriented programming, Basics Data Science: Jupyter, Pandas, Scipy

Day 2: Plotting: Matplotlib, Seaborn

Day 3: Biology: Biopython

Day 4: Coding Practice!

Day 5: Best practices, Good code, Wrap-up

Flexibility

Some flexibility in the plans, depending on your speed and interests.

Give me feedback!

So no worries if we get behind or ahead!

Final Project

Build a small scientific pipeline **of your choice**.

4 weeks from course end (effective work is ~1 full-time week)

02.06. at 14:00 is the submission deadline

Today's menu

- How your PC works (Background)

- Programming

- Using Python

- Calculations

- Strings, numbers, variables

- Some easy exercises

Acknowledgements

This guy started it all :)

Thank you Roland
Sauter!