Introduction

Pascal Auf der Maur

About me

- Pascal Auf der Maur
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About my exercise session

- Agenda
  - Recap theory
  - Present exercises
  - Questions
- If possible: Demonstrations
- Questions and Feedback are always welcome
- Materials on n.ethz.ch/~pascalau

About the subject

- A lot of useful tools are thaught
  - Python
  - Data analysis
  - Plotting
- A lot of theory in contrast with exercises
- Exam is written and mostly about theory/application

About the lecture

- Presents the theory
- Follows the lecure notes on the homepage
- Lectures very dedicated to make a interactive lecture

About the exercises

- Exercises consist out uf coding in Python and pen and paper problems
- Good preparation for the exam

About Python

Python . . .

- . . . is a easy to code scripting language comparable to matlab
- . . . is opensource
- . . . is very popular for data analysis and machine learning
- . . . has lots of libraries written in powerful languages

About Python

What to install:

- Anaconda (see Exercise 1)
  - We use jupyter notebooks for our code for easy documentation and execution
  - An IDE is not required

About the exam

- 120 min
- About theory, applying the theory and pseudocode
- Open questions and MC
- Summary 4 pages (2 sheets) handwritten or at least fontsize 8 pt
  - My summary is on my homepage

About the exam preparation

- Old exams on homepage of the lecture
  - No solutions will be provided
- Learn to apply theory/concepts