Exercise class 1

Introduction to Programming and Numerical Analysis

Class 3 Annasofie Marckstrøm Olesen Spring 2023



UNIVERSITY OF COPENHAGEN



Tips for DataCamp and Installation

Exercises

About me

- Third semester Master's student
- Research assistant at the institute
- Took this course last spring
- First time teaching criticism and feedback welcome at all times!
- Can be contacted at **jmh520@econ.ku.dk** or through Absalon.

This course...

- ...covers tools that are applicable in MANY contexts in economics and data science.
- ...gives you skills and competences that are in high demand programming is in!
- ...is super fun!

The exercises...

- ...are crucial to your learning and very relevant for the exam.
- It is important that you get your hands dirty and learn to locate and fix mistakes.

The exercise classes

This year, lectures are mostly in video format, so exercise classes are your main chance for asking questions in person.

Plan for exercise classes

- I give a 10 min run through of important concepts from this week's lecture and tips for the problem set.
- Individual/group work on problem set.
- 5 min recap

You'll need to install:

- Anaconda: A Python distribution, which helps you download Python and packages.
- **Git**: A version control system that keeps track of changes to files and allows you to cooperate on projects online.
- **Visual Studio Code**: A text editor/IDE where you can write and run code files and notebooks.

Tips for installation

Follow the instructions on the course website carefully and in the right order.

Make sure you are installing Anaconda on a path with no spaces or special characters.

If something fails, the best approach is often to restart the program - or even uninstall and start from scratch.

Installation may take some time - you can do DataCamp while waiting.

By **February 26th** you must have completed 4 courses in DataCamp:

- Introduction to Data Science in Python
- Intermediate Python
- Python Data Science Toolbox (Part 1)
- Python Data Science Toolbox (Part 2)

The first three exercise classes are dedicated to working on DataCamp, but you should expect to do some of the work at home.

Try not to speed through the exercises - focus on understanding the code and why it works. Understanding the basics is necessary for solving the problem sets and the assignments.

If you have trouble understanding a concept, let me know and I'll be happy to help. If you get an error code or if you forget the syntax, try to Google before asking me.

Time for exercises

Your tasks:

- Install according to guide
- DataCamp

If this is your very first time working with Python and you're feeling overwhelmed, I can also recommend the DataCamp course "Introduction to Python" for a gentle introduction to variables and data types.

Be back at 16.55 for a short recap.