

Computational Intelligence for Optimization

Practical Classes



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Office Hours:



The Plan

- Parallel to the theoretical classes
- Optimization techniques/methods
- Applying them on some problems

The language: Python IDE: PyCharm



- Most of the classes will continue on the PyCharm IDE instead of pdfs.
- The codes will be uploaded on Moodle after the classes.
- The notes written during the classes might be shared on Moodle as well.



Evaluation: Project

- Topics will be published in April
- Theory + programming
- 3 or 4 people

Deliverables: 3rd of June, 09h00 (AM)

- Source Code
- Report

Oral Defense: 5-6 June

(7th may be included depending on the scheduling, I'll inform you)



Computational Intelligence for Optimization

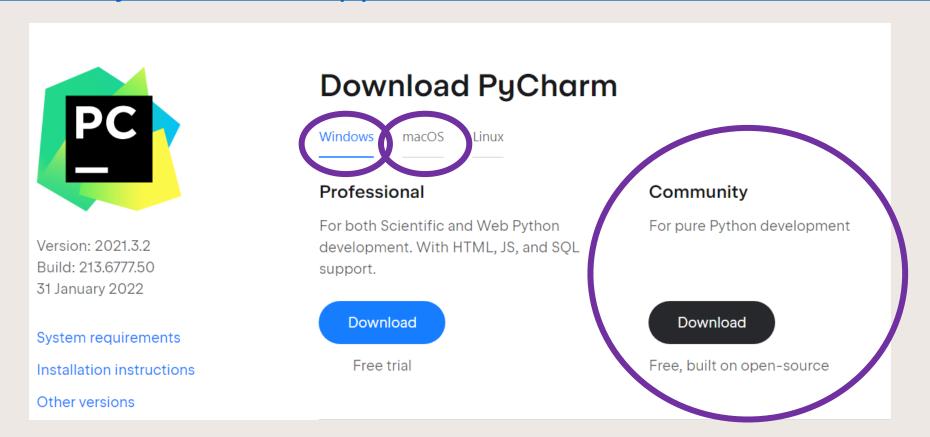
Practical Classes

Week I
PyCharm & Introduction



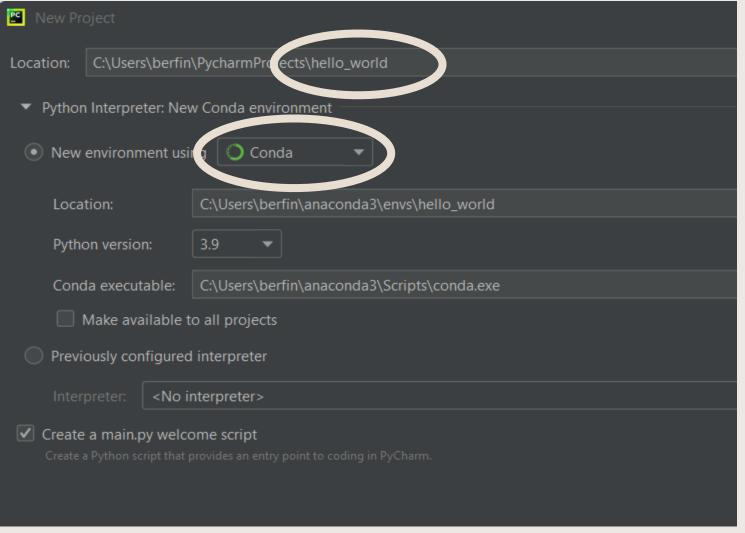
PyCharm

https://www.jetbrains.com/pycharm/download/#section=windows





New Project





Discovering PyCharm & Warm-up

- First hello world
- Different ways to run the code
- Creating and opening folders and files
- Python console
- Python packages
- Terminal
- Debugging
- Importing data
- Lists (list comprehensions, indexes, multi-dimensional lists)
- Functions