

# Exercise class 4

Introduction to Programming  
and Numerical Analysis

Class 3

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## My thoughts on the problem sets

### Problem set 1

## My thoughts on the problem sets

The problem sets will be more challenging than DataCamp, but they train you in everything you need to know for the exam!

If you don't make it through all of the problems at the exercise class, finish them at home.

OK to copy code from lectures or earlier problem sets. Coding is rarely done completely from scratch.

OK to peek at solutions. But you cheat yourselves if you don't make sure you can solve the problems by yourselves.

Extra problems are great for preparing you for assignments, since they often force you to think a little creatively.

## Problem set 1

Problem set 1 trains you in this week's topics: Optimizing, printing and plotting results.

Plan for today:

- Now-15.50: You solve the **Tasks**: functions, print, matplotlib, optimize
- 15.50-16: We go through the solutions together.
- 16-16.15: Break
- 16.15-16.50: You solve the **Problem**
- 16.50-17: We go through the solution to the Problem + a few words on the extra problems.

## Next time

### Video lectures

- Random numbers
- (Maybe front load a bit on the videos, the week after has both videos and a physical lecture)

### Problem set 2:

- Drawing random numbers
- Monte Carlo integration
- User defined modules
- Saving and loading
- ...and of course everything you've learned until now