Data Science in Python (DSiP) - Programming Basics

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September 24, 2023

Exercise: Explore the math package

Setup

- Open the IPython notebook using the command 'ipython notebook' from the directory where you want to store your exercises.
- Create a new notebook use a meaningful naming scheme, like, for example, 'Name-coursename-semester'.
- Create a first markdown block and create a header with the title, name, course, and semester.
- Work through the IPython notebook tutorial under http://ipython.org/ipython-doc/2/notebook/notebook.html.
 - Learn the principles behind the notebook, how it is started, how you
 edit code and text, and the IPython magic commands.
- Create a first code block and start with the following exercise.

Exercise: Explore the math package

Exercise

Explore the math package and make the following calculations:

- $\cos(0.7) + \sin(0.3)$
- Factorial of 20
- Round down the following numbers: 1.4, 3.5, 4.8
- Check the runtime behavior of different functions in the math package.