FH AACHEN
UNIVERSITY OF APPLIED SCIENCES

HPI Hasso Plattner Institut
Digital Engineering · Universität Potsdam

Week 4: Reading and Writing Data

Unit 1: Motivation and Definition

Christian Drumm

Stephan Jacobs

Design IT.
Create Knowledge.

www.hpi.de

Motivation and definition

How can data be permanently stored?

- Right now, all the data processed in our programs is lost when the program is stopped.
- How can data be permanently stored, even when the computer is switched off?
- Read data from and write data into **files**
- Definition of a file:
  - Logically related
  - Usually sequentially ordered
  - Permanently stored (e.g. on a hard drive)
  - Identified by a name

Hard disk

FH AACHEN
UNIVERSITY OF APPLIED SCIENCES

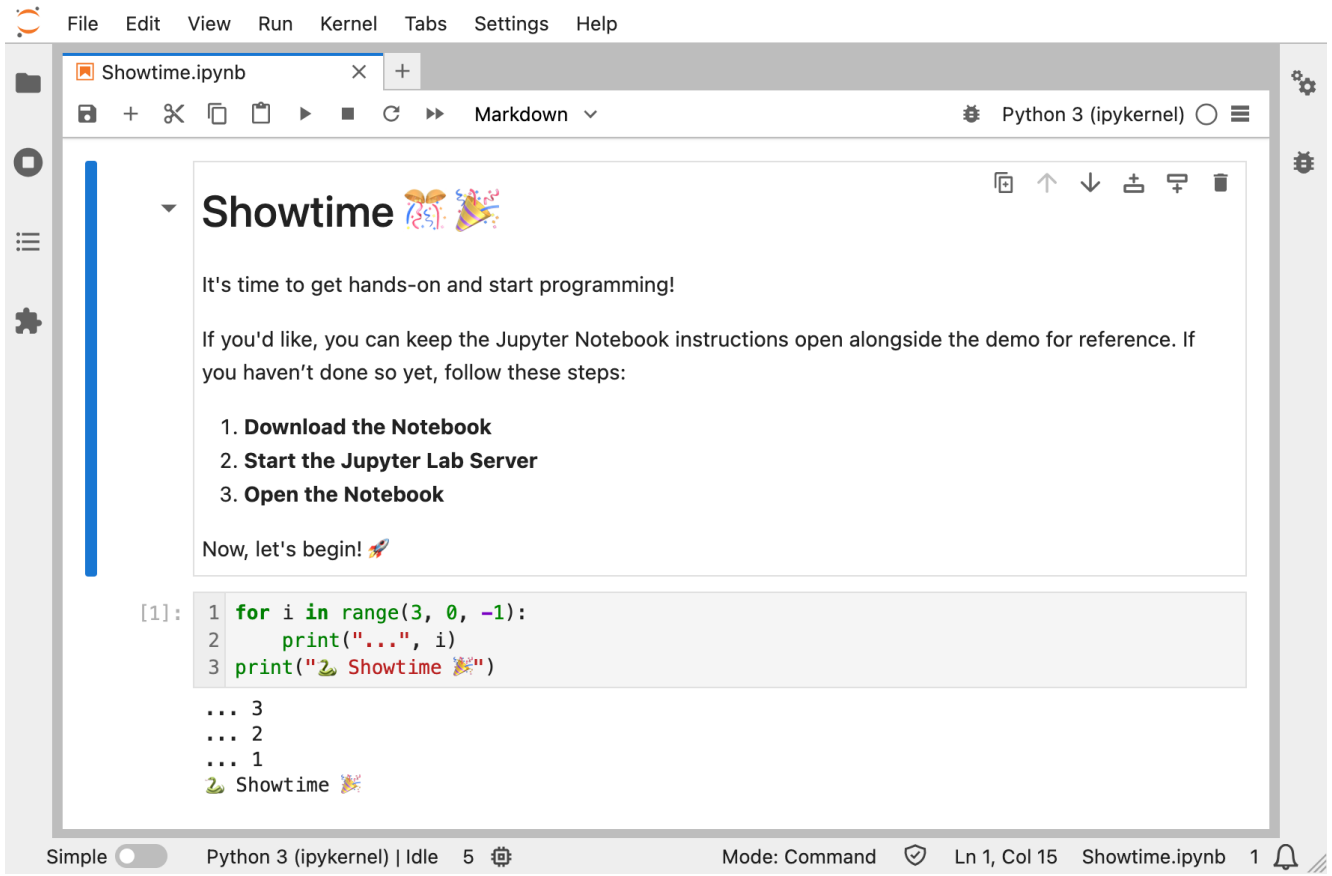
Motivation and definition Showtime

Now it’s time to get hands on and start programming!

If you like, you can open the Jupyter Notebook instructions in parallel to the demo.

If you haven’t done so yet:

- Download the Notebook
- Start the Jupyter Server and open the Notebook



Motivation and definition
Summary / key takeaways

In this unit you learned ...

- … that files are the classical means to store data