



Community Spotlight

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Working with spreadsheet-style data in Python with pandas and seaborn (Version 1.0)

By Madeleine Bonsma-Fisher



Module Description:

This 4-hour participatory live-coding workshop takes learners through the basics of programming in Python via the Jupyter Lab interface and culminates with exploration and visualization of real-world bicycle count data from the City of Toronto. The file 'lecture-notes-python-workshop.ipynb' can be opened and run with Jupyter notebook or Jupyter Lab, and the material is designed to be presented as a participatory live-coding workshop in which learners follow along as the instructor projects their code. The file 'lecture-notes-python-workshop.html' is a rendered version of the .ipynb notebook file that can be viewed in a browser.

This material focuses on using the package pandas for working with spreadsheet-type data and the packages matplotlib and seaborn for data visualization.

This material is based on workshops (<https://uoftcoders.github.io/2018-07-12-utoronto/>) hosted by UoFT Coders (<https://uoftcoders.github.io>), inspired by the Data Carpentry Ecology Python lesson (<https://datacarpentry.org/python-ecology-lesson/>).

Teaching Setting:

This versatile workshop is appropriate for undergraduates, graduate students, faculty, or staff in any discipline. This resource assumes no background knowledge of programming.

QUBES Citation:

Bonsma-Fisher, M. (2018). [Working with spreadsheet-style data in Python with pandas and seaborn](#). QUBES Educational Resources. [doi:10.25334/Q4PF1D](#)

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Related Materials and Opportunities:

This resource uses Jupyter Notebooks or Jupyter Lab, both of which are software hosted by QUBES. Both programs can be accessed from the [Jupyter Notebooks](#) and [Jupyter Lab](#) pages on QUBES and launched directly in a browser, eliminating the need to download them. [Browse all software on QUBES.](#)

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