# Software Design for Data Science

**Functions** 

Melissa Winstanley University of Washington January 10, 2023



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## **Project ideas?**

Has anyone thought about what data or topics they might want to explore for the course project?

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#### Data spotlight: USDA

The USDA has a variety of interesting data sets:

https://www.ers.usda.gov/data-products/

https://www.usda.gov/content/usda-open-data-catalog

https://data.fs.usda.gov/geodata/edw/datasets.php

#### Reminder: Homework 2 due tonight 11:59pm

https://uwdata515.github.io/syllabus.html

#### Next up this week:

- Homework 1 resubmission
  - Updates based on feedback for credit
- GitHub username survey (for participation)
- Homework 3 (on GitHub classroom)
  - Harder than the last 2 homeworks!
  - Take a look at the data file first. What can you assume about the format of these files?
  - o Examples given may not cover all cases. These are examples. Come up with your own test cases

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## This Week - Friday Office Hours - 3-4:30 - Online Only

This week, my Friday office hours will be via Zoom ONLY, not in person, from 3:00 - 4:30pm.

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## **Today**

- Lecture: Python functions
  - o Breakout: Python functions
- Break: 5 minutes
- Lecture: Intro to Python modules
  - Breakout: Python modules
- Break: 15 minutes
- Lecture: File input/output
  - Breakout: File input/output
- Lecture: Function specifications