Unit 3: Core tools

Resource Referencing

Lesson 28

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Overview of unit

Objectives:
- Understanding how data science activities necessitate certain kinds of tools
- Fundamentals with core data science tools

1. Why core tools?
2. Project organization
3. Python
4. Best practice: write CLI tools
5. Best practice: write unit tests
6. Best practice: resource referencing

7. Github
8. Jupyter notebooks
9. Jupyter & statefulness
10. Bokeh
11. Advanced bokeh
12. HW 3

Lesson overview

Objectives

- Use platform and location agnostic ways of building paths.

Outline

- Path separators
- Relative paths

Don't EVER use explicit paths

Build paths from

- Input arguments
- Current script location = os.path.dirname(__file__)
- Path separators = os.path.sep
- Path combination functions: os.path.join(…)

eg dont use:
filepath = "data/comp.json"

} *old world*

→ ("data", "comp.json")

from pathlib import Path
file_path = Path(__file__).parent/ "data"/ "comp.json"

whrever you are

Lesson wrap-up

Takeaways

- Doing resource referencing cleanly will save you and others a lot of pain.

Up next

- HW3