Applied Data Analytics

Basic Python

Importing Modules

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Contents

- What are libraries?
- Different ways to import libraries or parts of libraries
- Typical errors when importing

Third party libraries

- Python is a general purpose programming language
- The base language you have seen so far is extended by libraries
 - Standard library (e.g. datetime)
 - Third party libraries (e.g. pandas, plotly)
- Libraries need to be imported to use them (and third party libraries need to be installed)

Different ways to import

```
# Import entire library and rename it
import pandas as pd
# Remaining things are just for
# being able to read others' code
# Import an entire library
import pandas
# Import one function / object
from pandas import Series
# Import everything from a library
from pandas import *
```

- 1. All that is needed in this course
 - pandas (pd)
 - plotly.express (px)
 - plotly.graph_objects (go)
- 2. Many functions needed, no convention
- 3. If one needs one-three specific things
- 4. Never, ever use

What could go wrong?

- Meaning: The library you asked for is not found
- Do you have a typo in the library name?
- Is the library installed in your environment?