# Pandas 1 Introduction to Pandas

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2 How to use Pandas?

#### What is Pandas

#### w3schools:

Pandas is a Python library used for working with data sets.

It has functions for analyzing, cleaning, exploring, and manipulating data.

The name "Pandas" has a reference to both "Panel Data", and "Python Data Analysis" and was created by Wes McKinney in 2008.

#### What is Pandas

Alan:

Pandas is a glorified excel sheet

## Install pandas

```
# change directory to the project environment
. .venv/bin/activate # Activate the virtual

→ environment
pip install pandas
```

# Open File

```
import pandas as pd

df =
    pd.read_csv('https://raw.githubusercontent.com/uva-bi
    dtype={'fips':object})
# df
```

### Filter Data

#### Save Data

```
df.to_csv(<filename>, index=False)
# df.to_pickle(<filename>) # saves the object, but
→ not readable on all computers
```

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- Next Friday, each team will have a completed branch and present your findings on how the function was used. Save your code in the code/ folder