Pandas:
A python library that can make analyzing data easier
Documentation: [pandas - Python Data Analysis Library (pydata.org)]

Dataframes:

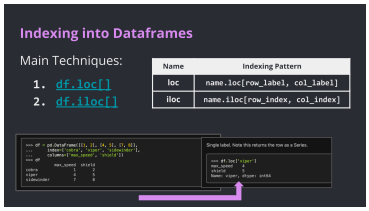
- A pandas object that is used to store a dataset
- Information is organized in rows and columns
- Dataframes simplify common operations, like sorting data

Series:

- A pandas object used to create dataframes
- Seen as a one dimensional list of data
    - Think of it as a single column in a dataframe

Indexing into Dataframes
Main Techniques:

1. df.loc[]
2. df.iloc[]



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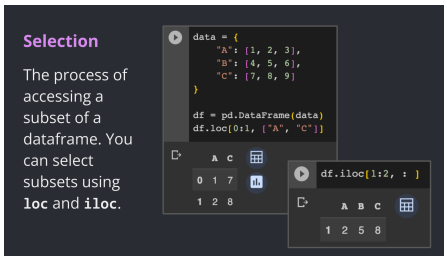

Filtering

Selecting values of a dataset where certain conditions are true.

Check out this article!

Popular Pattern:

`df[condition]`

```
data = {
    "A": [1, 2, 3],
    "B": [4, 5, 6],
    "C": [7, 8, 9]
}

df = pd.DataFrame(data)
```

```
evens = df[df.iloc[:, :] % 2 == 0]
evens
```

	A	B	C
0	NaN	4.0	NaN
1	2.0	NaN	8.0
2	NaN	6.0	NaN

Check out this article!

Combining Dataframes

Three techniques:

Concatenate: Naively combines along an axis.

Merge: Combine through shared column.

Join: Combine using shared indices.