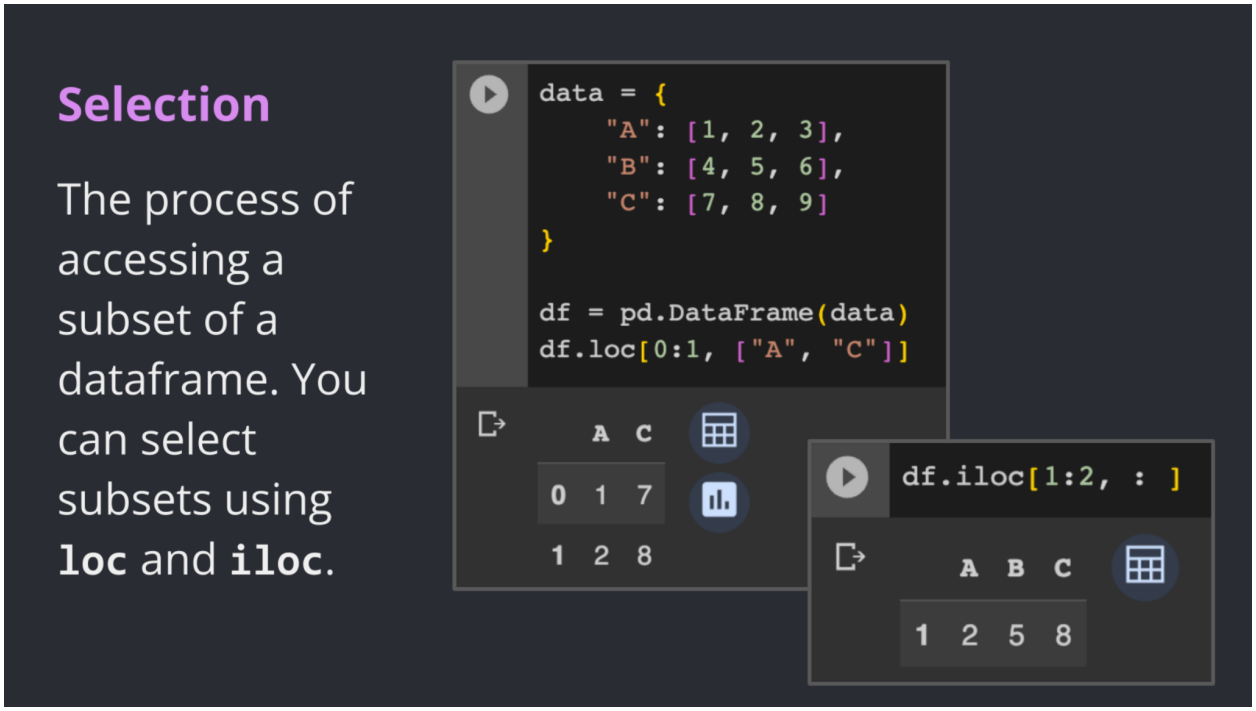
Pandas is an easier way to work with datasets in python.
It has lots of useful functions in its documentation.
Release date - 11 Jan, 2008.

Dataframe
A Pandas object that is used to store the dataset.
Information is organized in rows and columns.
Dataframes simplify common operations, like sorting or wrangling data.
Can be created from a dictionary of lists. Keys become column headers.

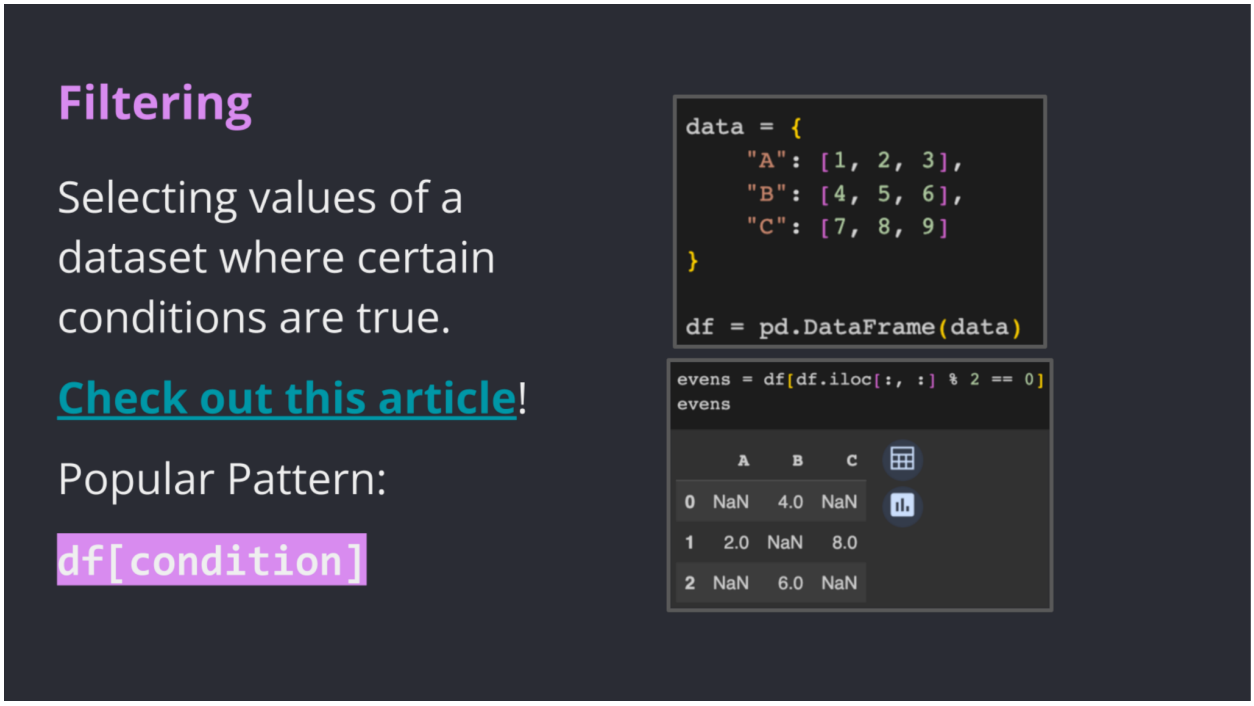
Series
A Pandas object used to create dataframes.
Seen as a one-dimensional list of data.
Think of it as a single column in a dataframe.

Indexing into dataframes
Techniques:
df.loc[] df.loc[row_label, col_label]
df.iloc[] df.iloc[row_index, col_index]

Selection
The process of accessing a subset of a dataframe. You can select subsets using **loc** and **iloc**.



Filtering
Selecting values of a dataset where certain conditions are true.
df[condition]



Combining Data Frames
Concatenate: Naively combines along an axis
Merge: Combine through shared column
Join: combine using shared indices (Inner, Left, Right, Outer)