Session4-Pandas (DataFrames)

DS 12/22_EU_DAwP_S4_Numpy2_4&6thAgu22
Training Clarusway
Pear Deck - August 4, 2022 at 6:08PM

Part 1 - Summary

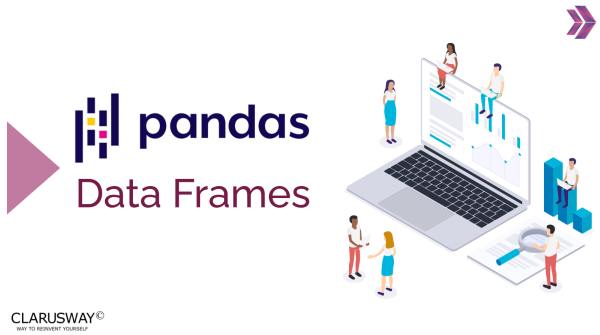
Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1

Use this space to take notes:

Slide 2



Use this space to take notes:

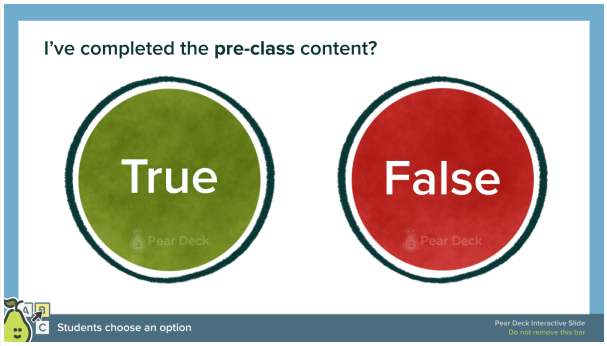
Slide 3

Table of Contents

Link(s) on this slide:

- http://localhost:8888/notebooks/DS/Instructor_Files/DAwPython/Cohort011_new/DAwPy_S4_(Pandas_DataFrames%2C_Selection_and_Indexing_w_loc%2Ciloc%2C%20multi).ipynb#10

Use this space to take notes:

Slide 4	Your Response
	You Chose • **False** Other Choices • True

Use this space to take notes:

Slide 5	Your Response
	

Use this space to take notes:

Slide 6

Pandas DataFrames

What is Pandas DataFrames?

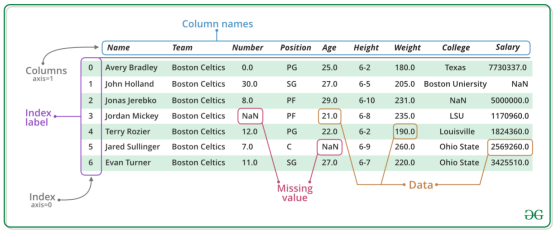
- DataFrames are the **workhorse** of Pandas.
- We can think of a DataFrame as a **bunch of Series** objects put together to **share the same index**.
- A DataFrame is a **two-dimensional** data structure where data is aligned **in rows and columns**.
- Three principal components; the **data, rows, and columns** form the Pandas DataFrame.

Use this space to take notes:

Slide 7

Pandas DataFrames

What is Pandas DataFrames?



	Name	Team	Number	Position	Age	Height	Weight	College	Salary
0	Avery Bradley	Boston Celtics	0.0	PG	25.0	6-2	180.0	Texas	7730337.0
1	John Holland	Boston Celtics	30.0	SG	27.0	6-5	205.0	Boston Uniersity	NaN
2	Jonas Jerebko	Boston Celtics	8.0	PF	29.0	6-10	231.0	NaN	5000000.0
3	Jordan Mickey	Boston Celtics	NaN	PF	21.0	6-8	235.0	LSU	1170960.0
4	Terry Rozier	Boston Celtics	12.0	PG	22.0	6-2	190.0	Louisville	1824360.0
5	Jared Sullinger	Boston Celtics	7.0	C	NaN	6-9	260.0	Ohio State	2569260.0
6	Evan Turner	Boston Celtics	11.0	SG	27.0	6-7	220.0	Ohio State	3425510.0

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Slide 8

Pandas DataFrames

Creating Pandas DataFrames

```
pandas.DataFrame(data=None, index=None, columns=None,
                 dtype=None, copy=None)
```

- "data" parameter can be;
  - NumPy Array
  - List
  - Dictionary
  - Scalar value

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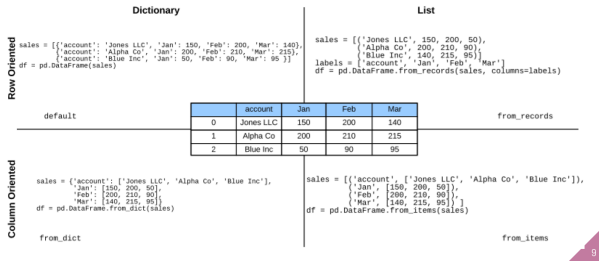
Slide 9

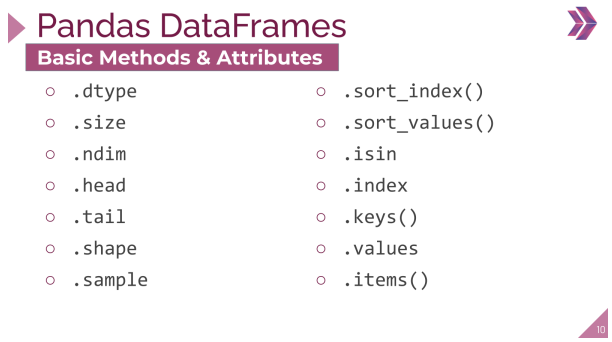
Pandas DataFrames

Creating Pandas DataFrames



Use this space to take notes:

Slide 10



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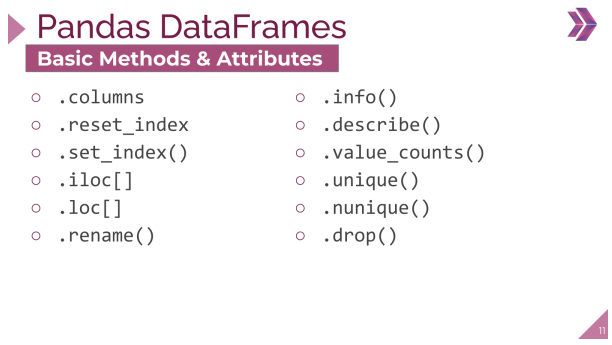
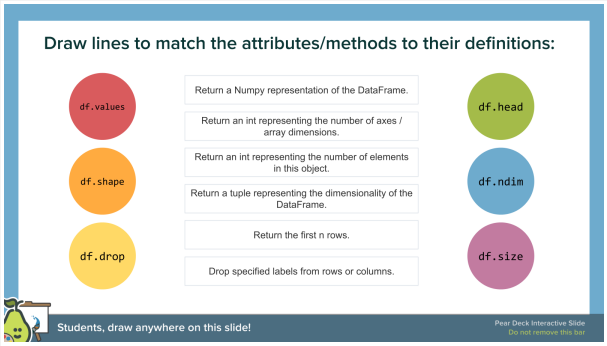
Slide 11



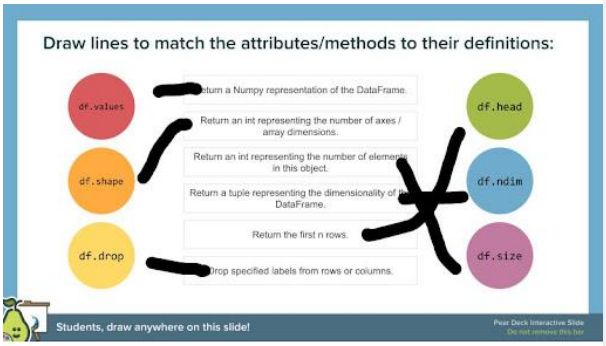
Use this space to take notes:

Slide 12	Your Response

Slide 12



Your Response



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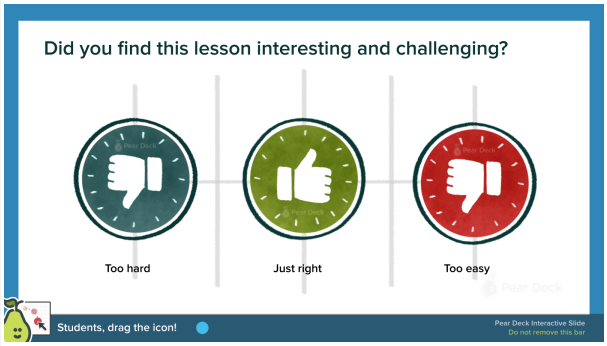
Slide 13

Use this space to take notes:

Slide 14	Your Response
	

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Slide 15

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