


Agenda

- Intro to pandas
- DF and Series
- Basic Ops : Columns
- Basic Ops : Rows
- Indexing: loc vs iloc

Intro to pandas

- ↳ numpy 2d arrays were Homogeneous
- ↳ Pandas are 2d Matrices where each Column can have different Data types

arr [row , col]



Column Readers / Column Indexes

	Name	Score	Attempts	Qualify
0	Anastasia	12.5	1	yes
1	Dima	9.0	3	no
2	Katherine	16.5	2	yes
3	James	NaN	3	no
4	Emily	9.0	2	no

Row Indexes

Column: Series

Data points

(Can have duplicates)

Data-point $\begin{cases} \text{row index} \\ \text{col index} \end{cases}$

`df['score']` → series

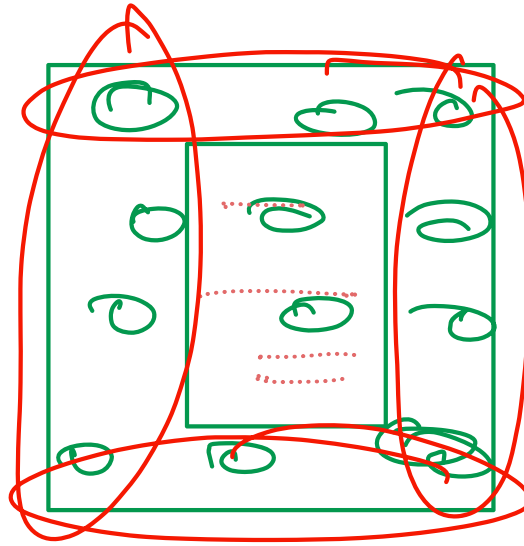
`df['score'][2]`
→ array

0	12.5
1	9.0
2	NaN
3	9.0

Basic Ops : Columns

- 1 Add a new Column ✓
- 2 Delete Column ✓
- 3 Rename Column ✓

Implicit and Explicit
Indexes



h.p. zero

①

②