

↳ Data visualizations

↳ Art : How we create (scale, axis, ticks)
etc

↳ Science : Which plot do I choose
to get the most insight.

Q. Why do we need to visualize data?

↳ Exploratory : ~~it~~

↳ Explanatory : ~~it~~

feature variables

f_1	f_2	f_3	f_4	f_5	f_6	f_7	} sample / record / datapoint

$$(c_1 f_1) + (c_2 f_2) + (c_3 f_3) + \dots$$

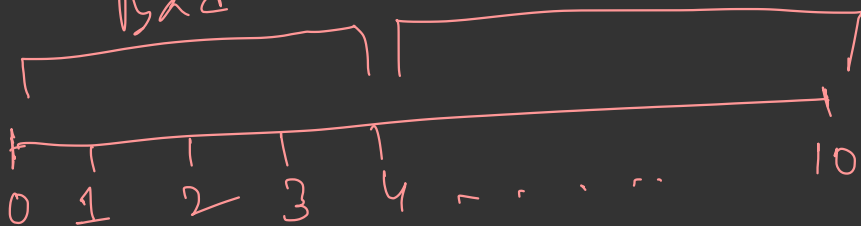
Data

Categorical

Continuous

Bad

Good



0.1 1.001 3.000001

$[0, 10]$

$[0, 10]$

0 - ✓ 1 - ✓ 2 - ✓

Data

Categorical (C)

Nominal

India

↳ No direction
↳ No relation

Pakistan

(Ordered)
Ordinal

↳ Direction ✓
Low < Medium < High

Interval

°C

↳ Temp

Low < Medium < High

Continuous

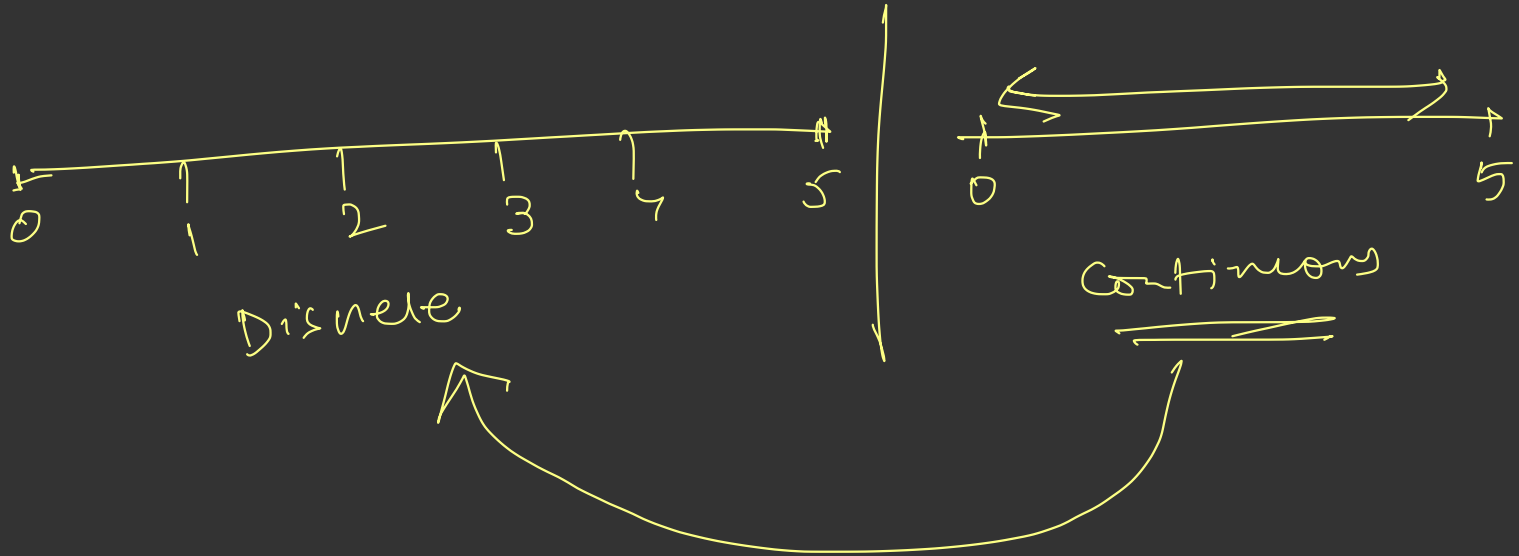
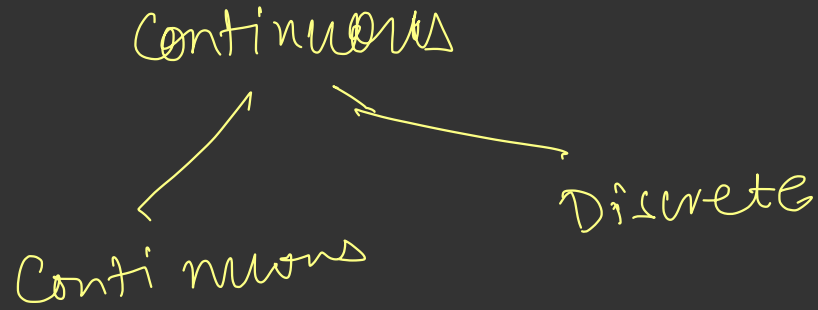
[Numerical]
(N)

Ratio

0 Kg Rice

↳ No Rice

↳ Rice is absent



Analyse the data :

↳ Univariate : C or N

↳ Bivariate : CN, CC, NN,

↳ Multivariate :

* Univariate which chart?

- C \longrightarrow Countplot, piechart, Barplot
- N \longrightarrow Barplot, histogram, KDEplot

* Bivariate

- C C \longrightarrow
- C N \longrightarrow
- N N \longrightarrow

* Multivariate

- N N N \longrightarrow

matplotlib [Folder]

└─ pyplot [file]

└─ image

Anatomy of Matplotlib lib

