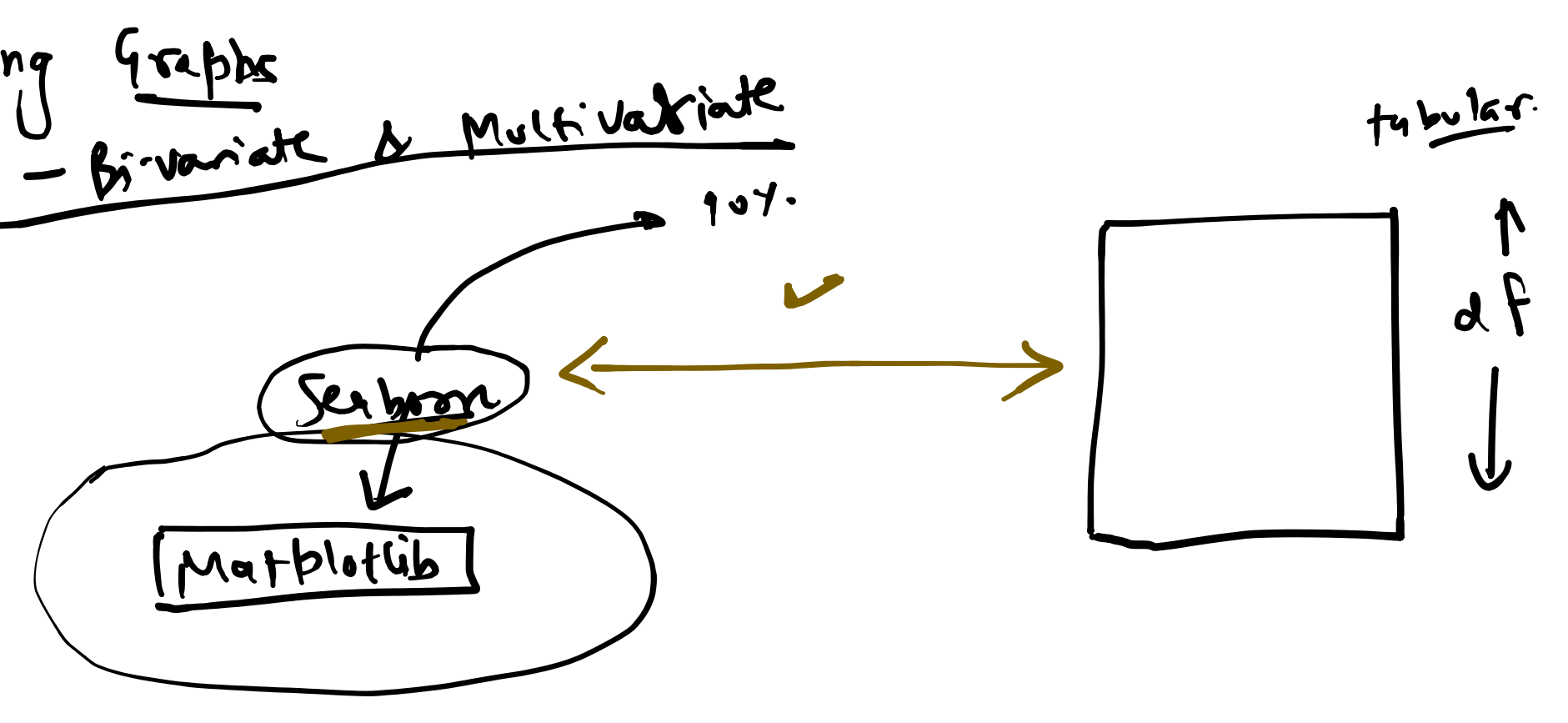
Seaborn

Wednesday, 13 April 2022 9:01 PM

Agenda :

1. Seaborn
2. Which plot to use when ? → Generic Data Viz
3. Interpreting Graphs
4. Univariate – Bi-variate & Multivariate

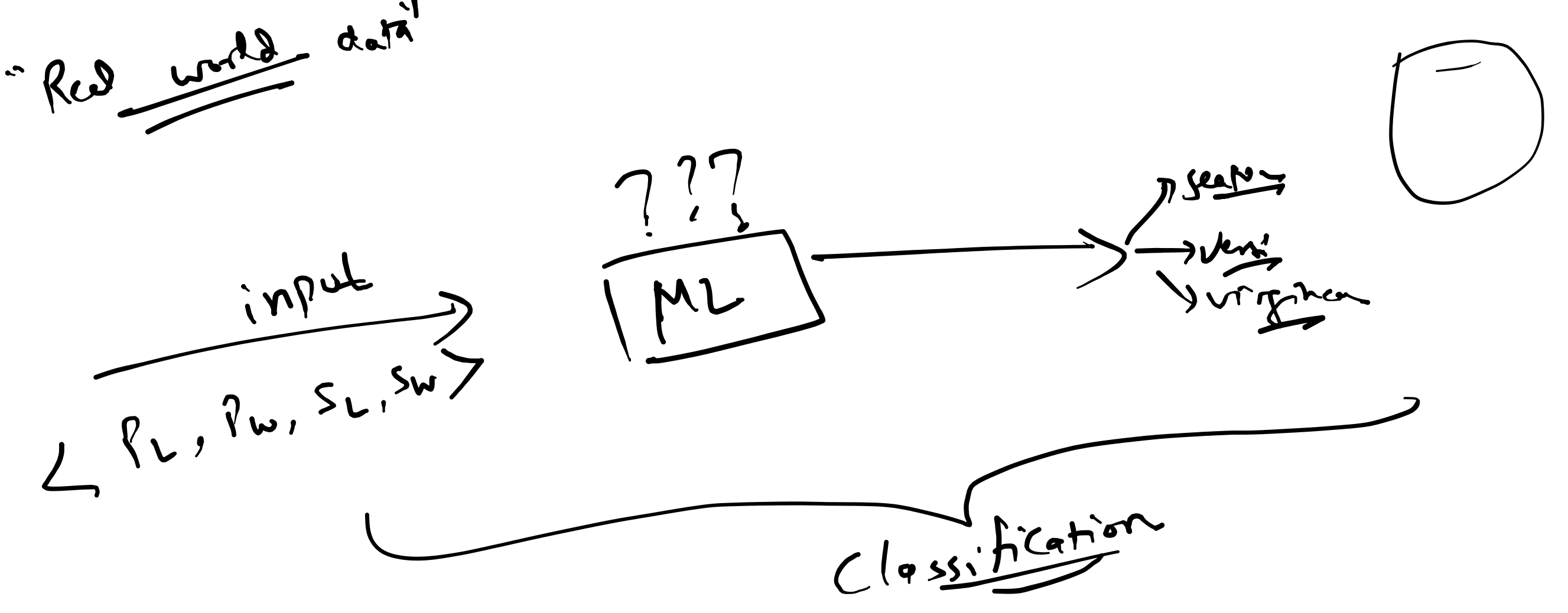
Introduction



" Iris Dataset " " Toy Dataset "

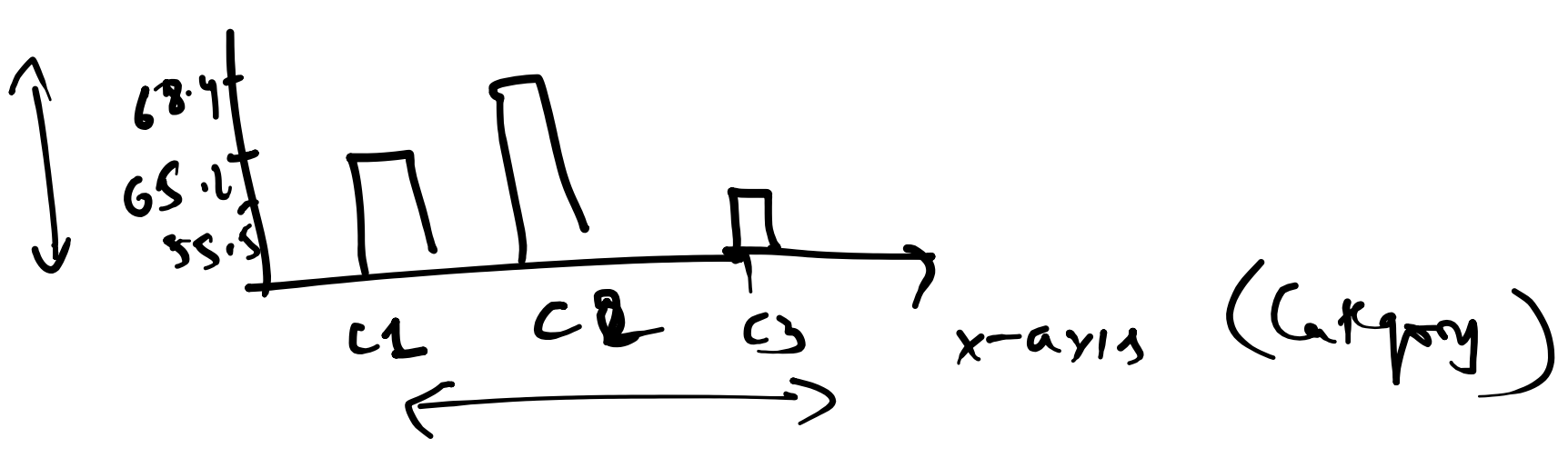
↳ hello world → data sci

" Real world data "

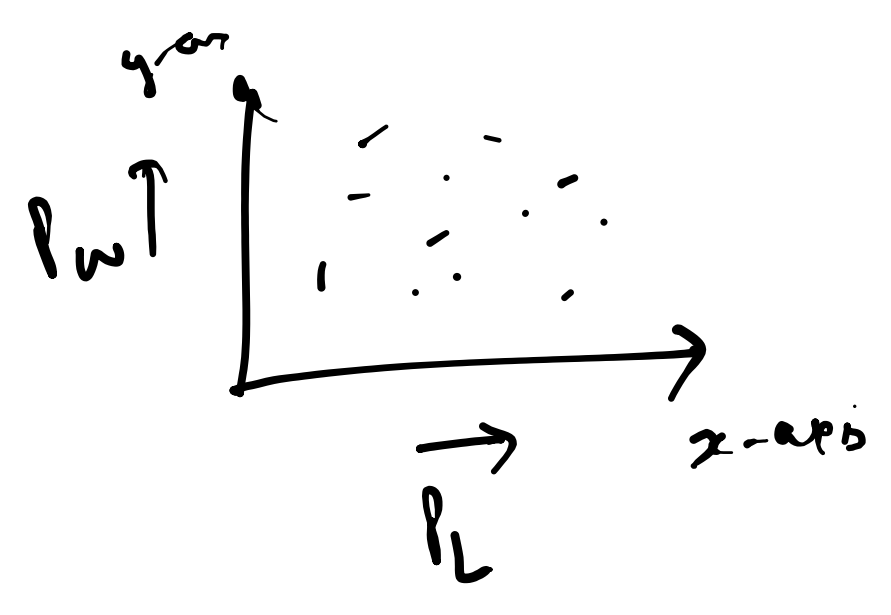


Histogram

(1) Barplot



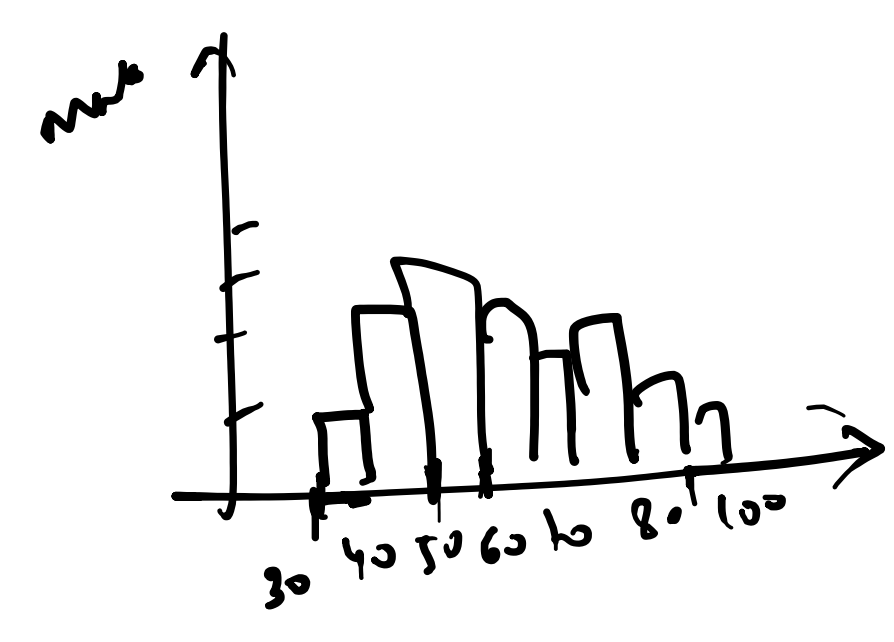
(2) scatterplot



(3) histogram

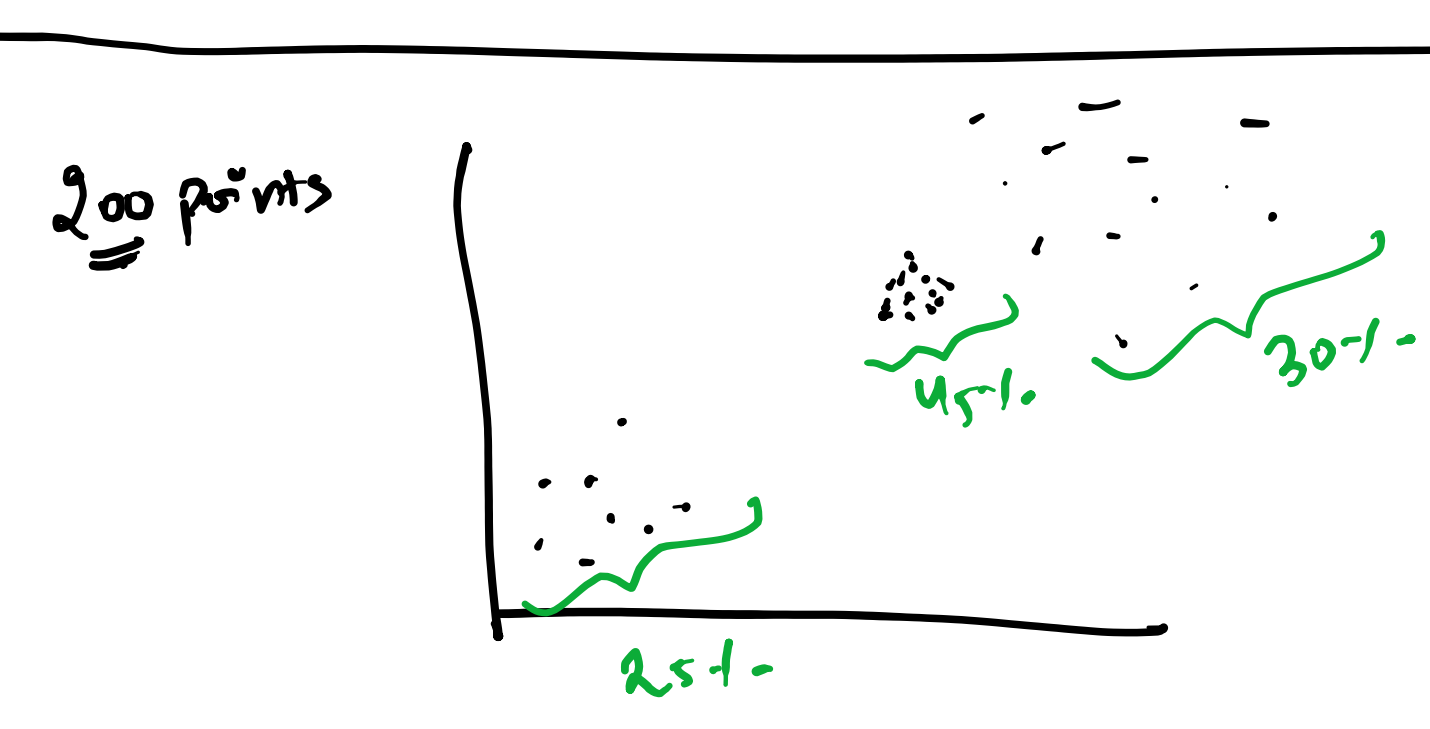
100 student

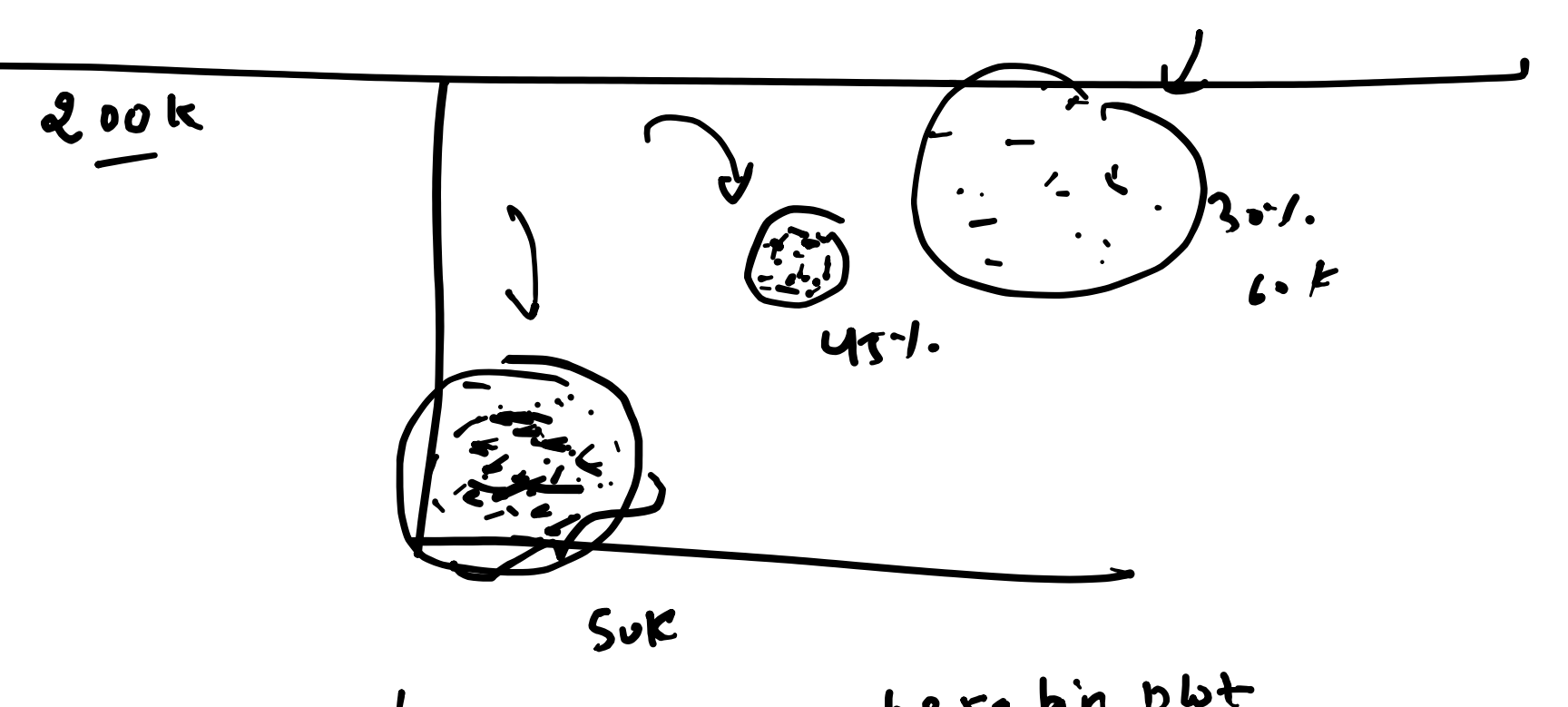
| 75, 89, 95, 36 .. |

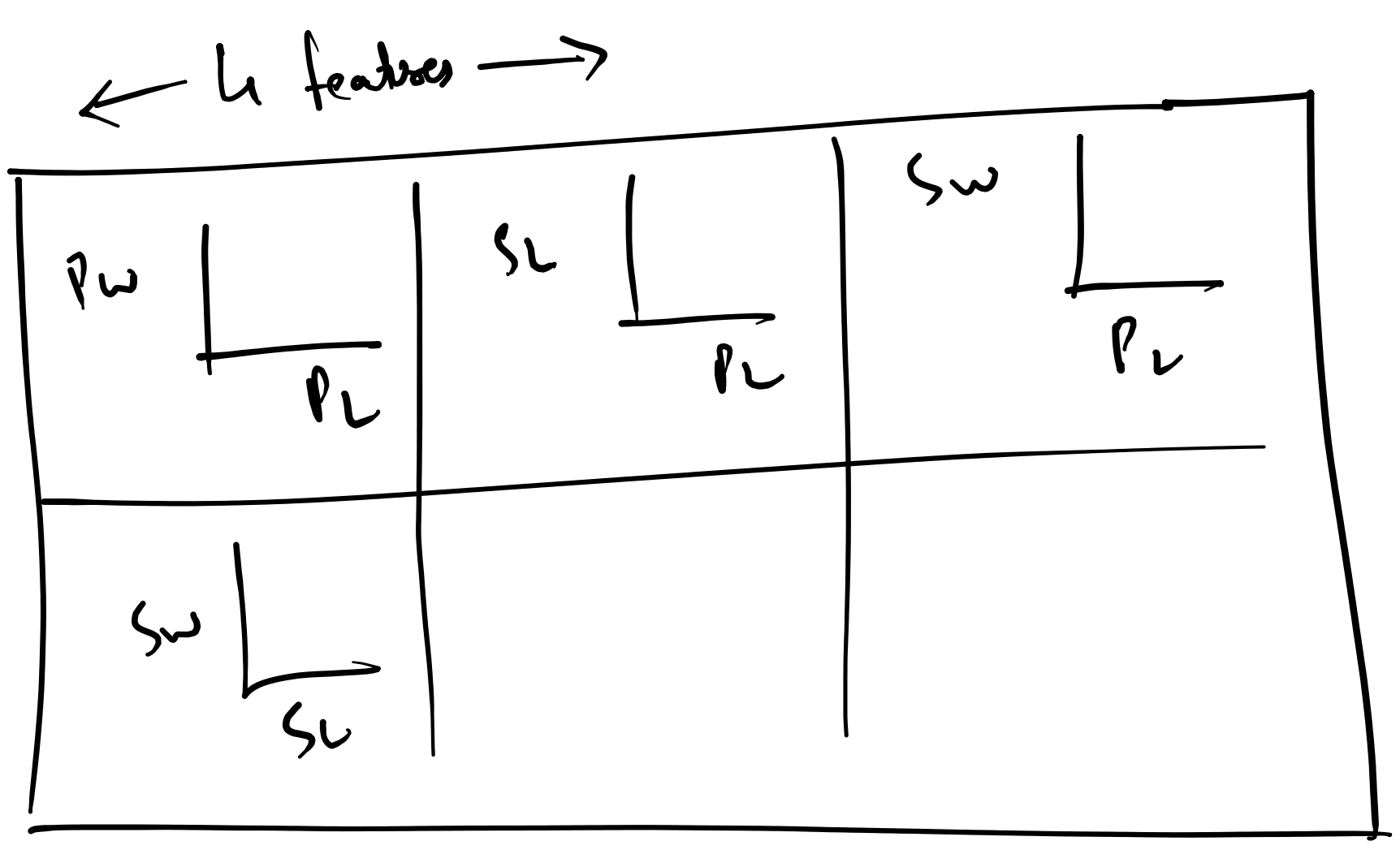


Kde = (kernel density Estimate) ≈ Smoothed version of histogram.

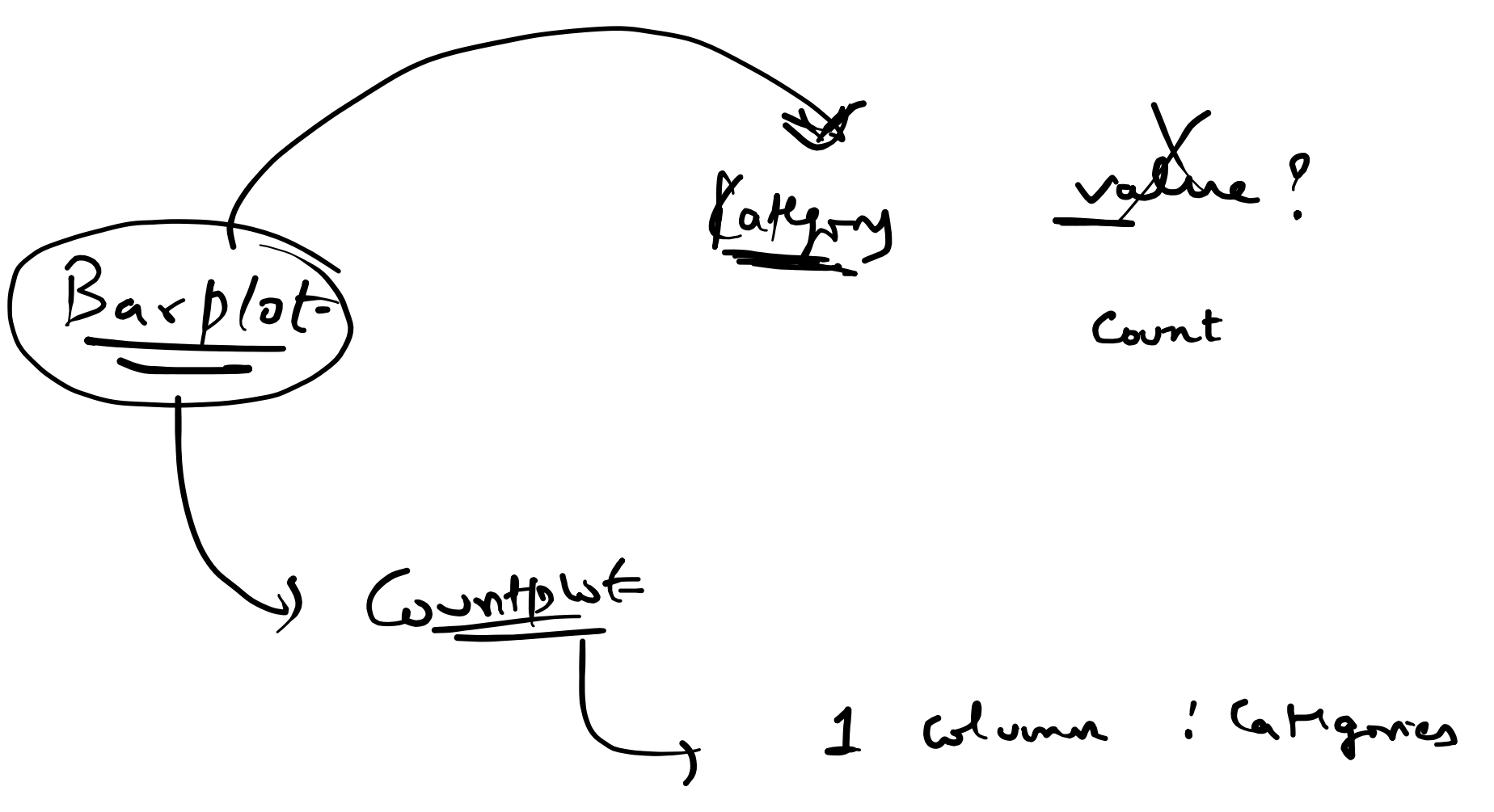
if PL < 2.1 cm :
print ('setosa')







Categorical Count (1)



Box & whisker plot

IQR : (75th – 25th Perc)

Choosing the right Viz / graph

Data
- → 1D
- → 2D
- → Multi-Dim

1D (Uni-Variate Analysis)

Categorical
- → Countplot
- → piechart

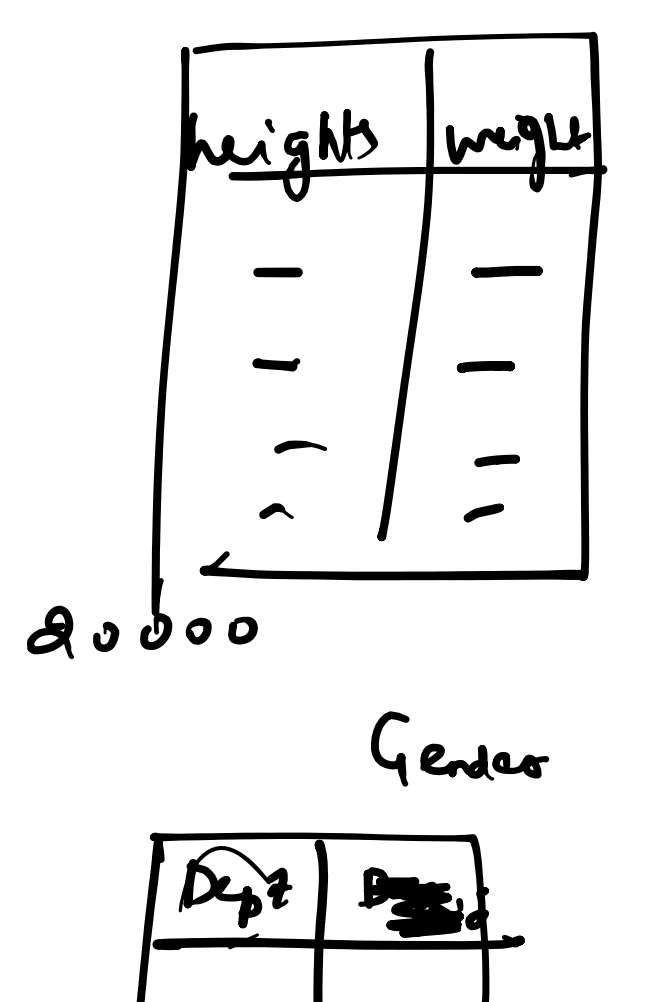
Continuous
- hist
- box plot
- kde
- line plot

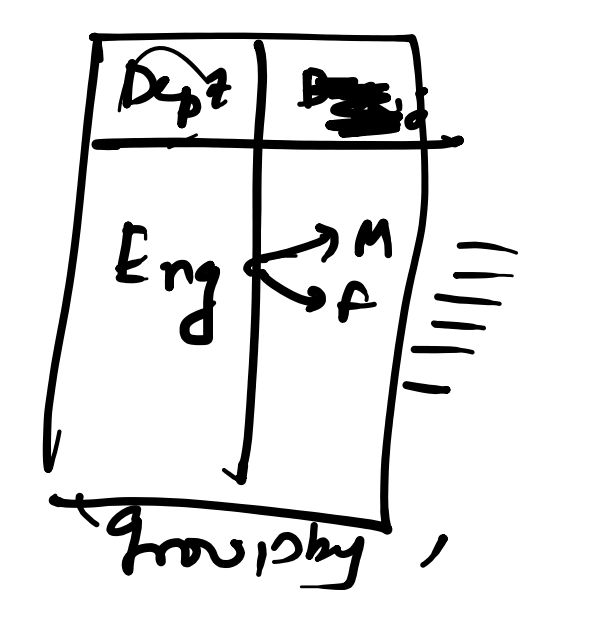
2D Data (Bi-Variate Analysis)

N-N
- ✓ Scatterplot
- ✓ line-plot
- hexabin
- jointplot
- ~~heatmap~~

N-C
- ✓ Box plot
- ✓ Countplot / Barplot
- violinplot
- piechart

C-C
- Cat plot
- Barplot 'hue'





Multi-Dim → 2 variable
- → 2D but using 'hue'
- → "Pairplot"