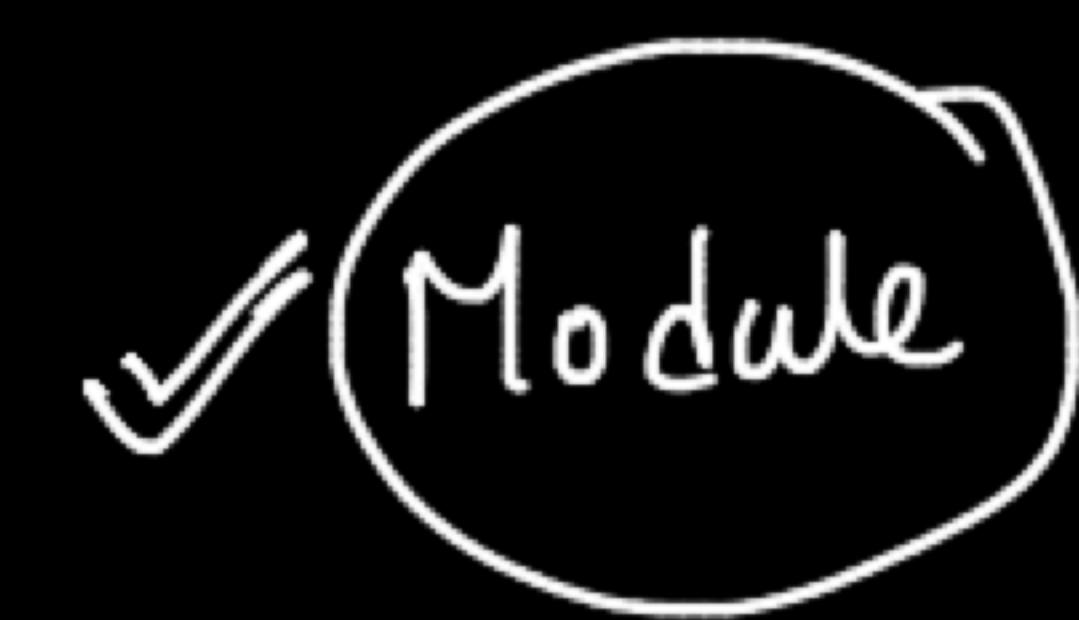


## Agenda

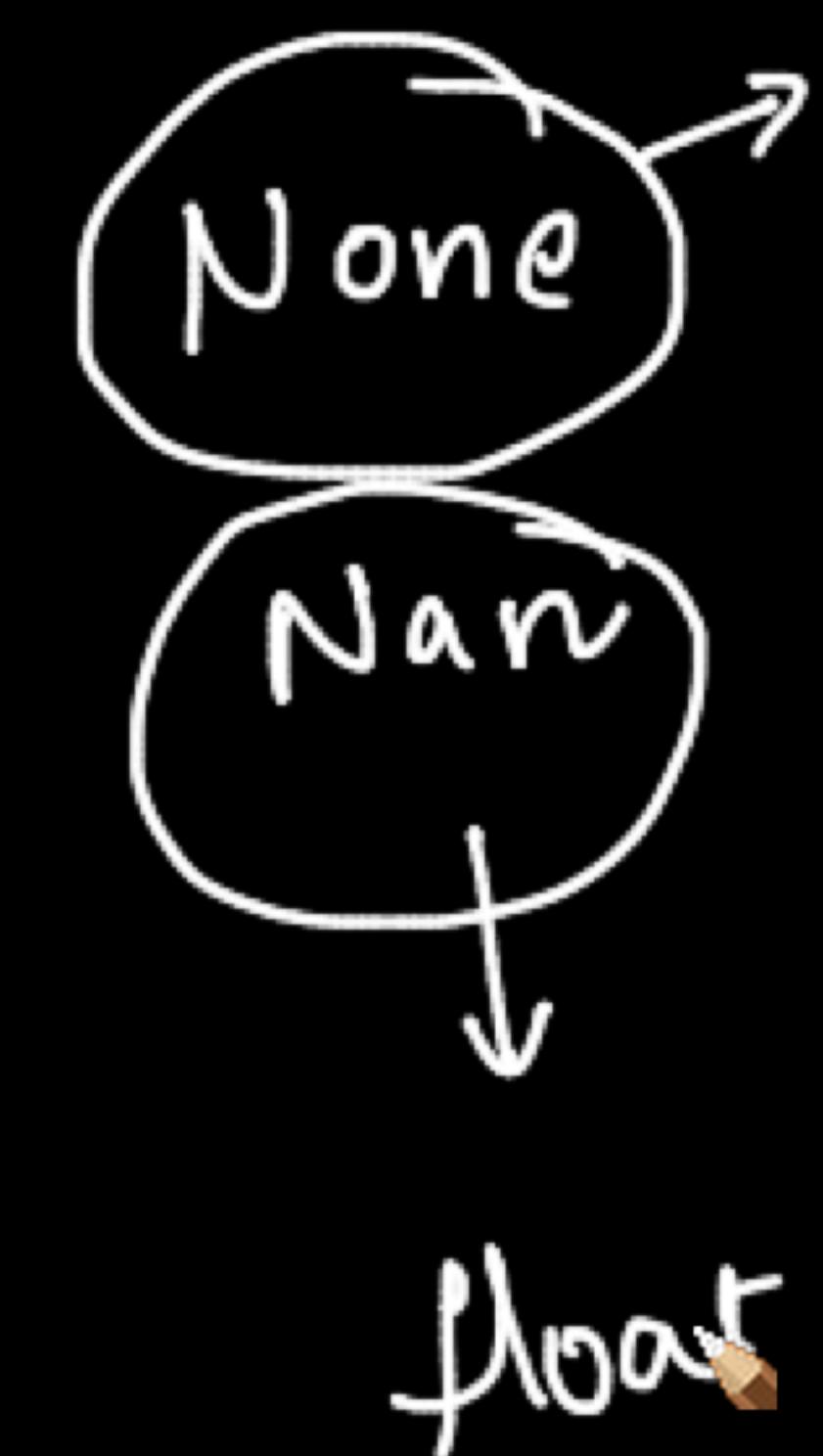
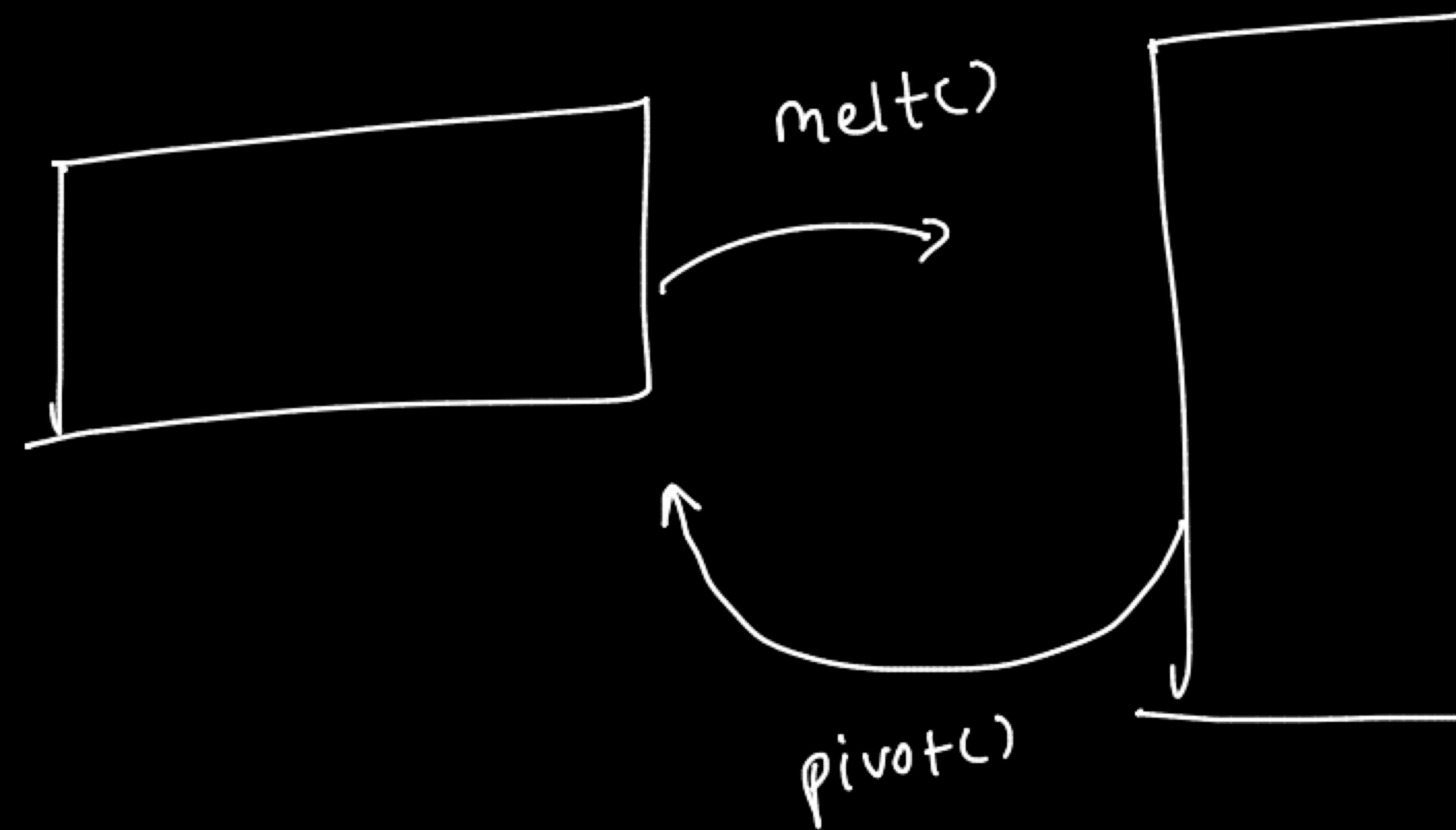
- \* Pandas cut()
- \* String functions
- \* Handling datetime
- \* writing to a file
- \* Uses/ necessity of **Matplotlib**
- \* Tencent Usecase
- \* Anatomy
- \* Types of Data visualization.

{ Numpy &  
Pandas }  
Assignment

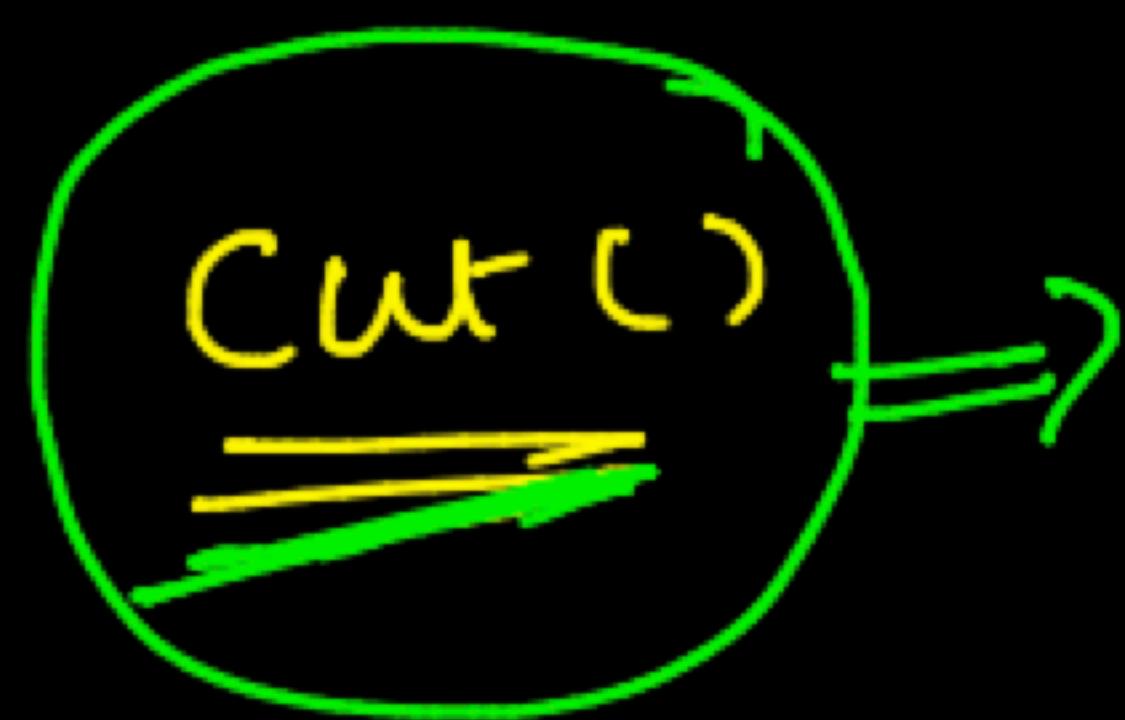


Restructuring  
Data

melt()

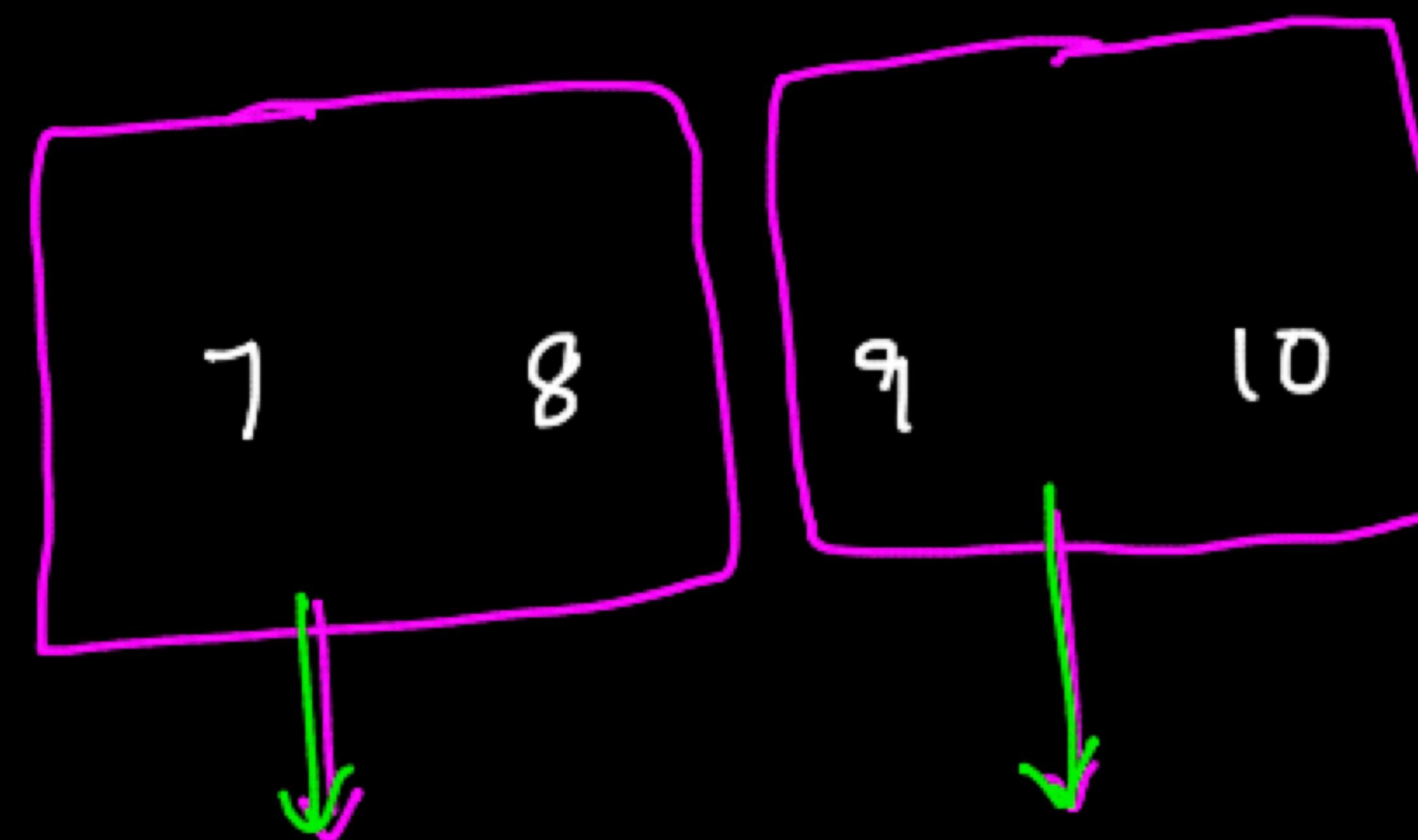
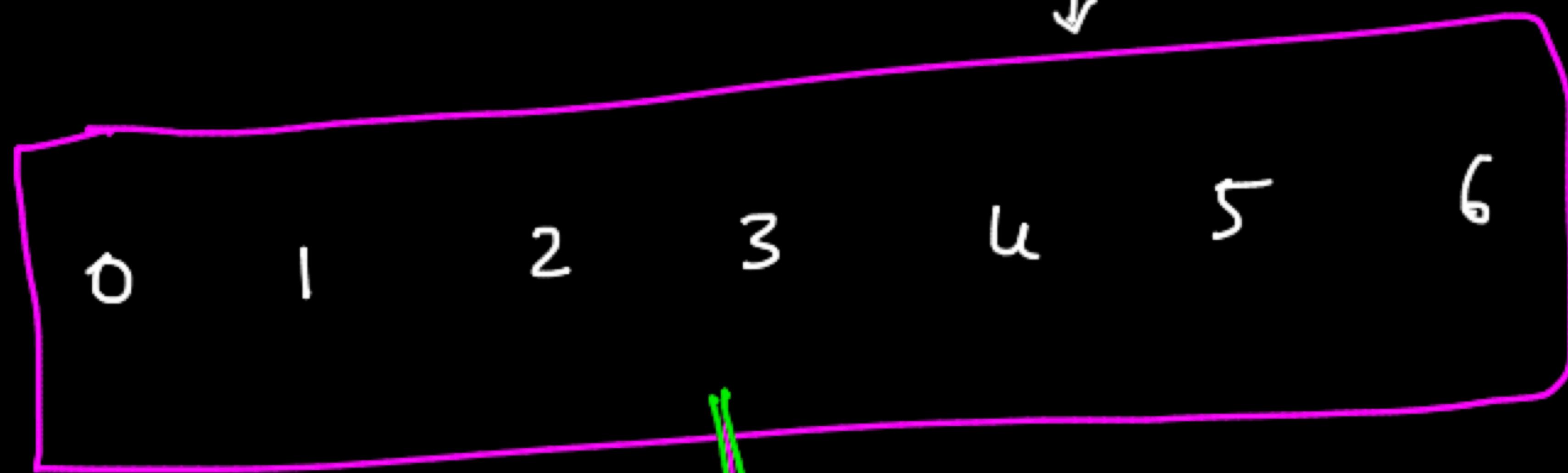


=>

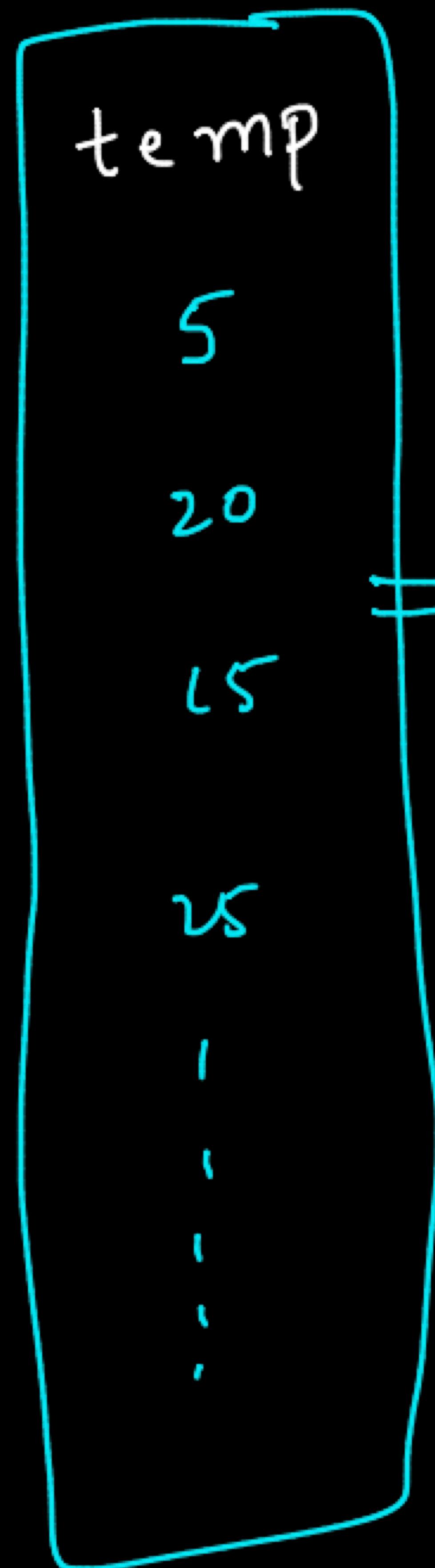


NPS => Net Promoter

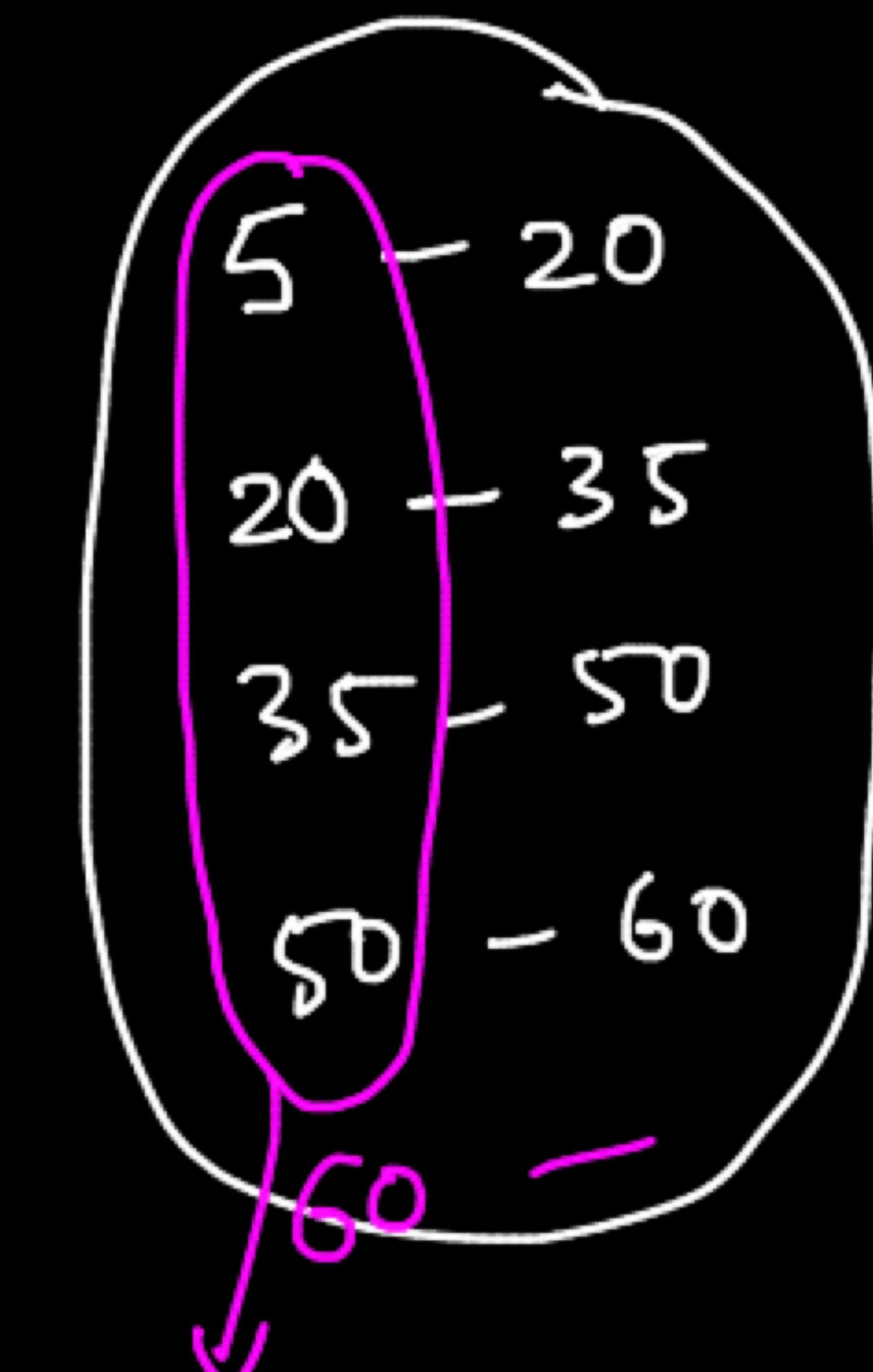
Juniper  
Caterpillar



Pfizer



presure



Type

low

med

High

v. High

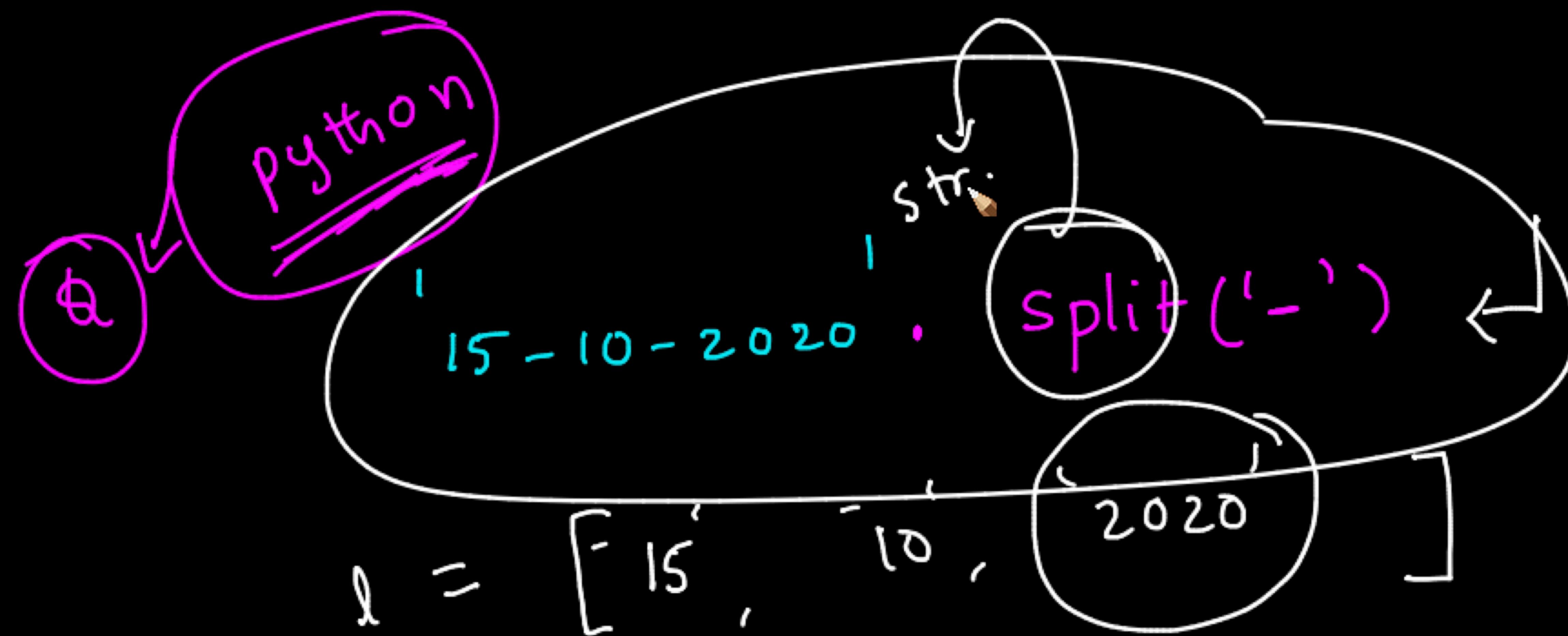
bins

[5, 10, 20, 35, 50, 60]



Blackboard

filter the rows containing 'hydrochloride' in their drug name



$l[-1]$  or  $l[2]$  ✓

'Satisf' + 'Atcha'  
conjunctional  
⇒ '(Satisf Atcha)'

'Satisf' \*<sup>2</sup> →  
↓  
satisfsatisf

# Data visualization?

Q

Where is all Data visualization helpful?

✓ Exploratory

⇒ Data analysis,

Ex

EDA

✗ Explanatory

⇒ Story telling

# Art & Science

Q) What is the science in Data visualization?

i) Anatomy of a plot

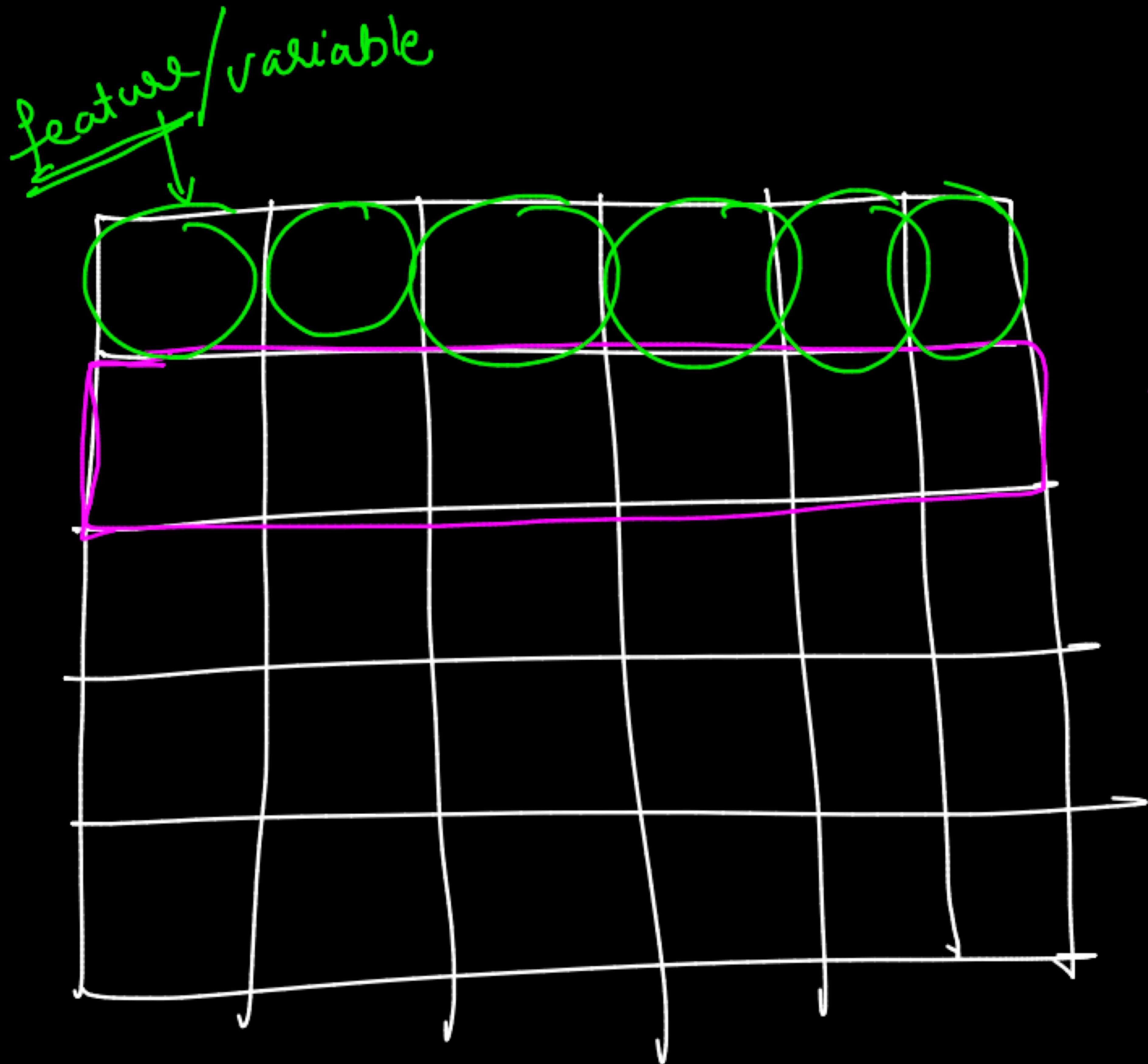
ii) How to use the right plot for a given data

Q) What is the Art in Data visualization?

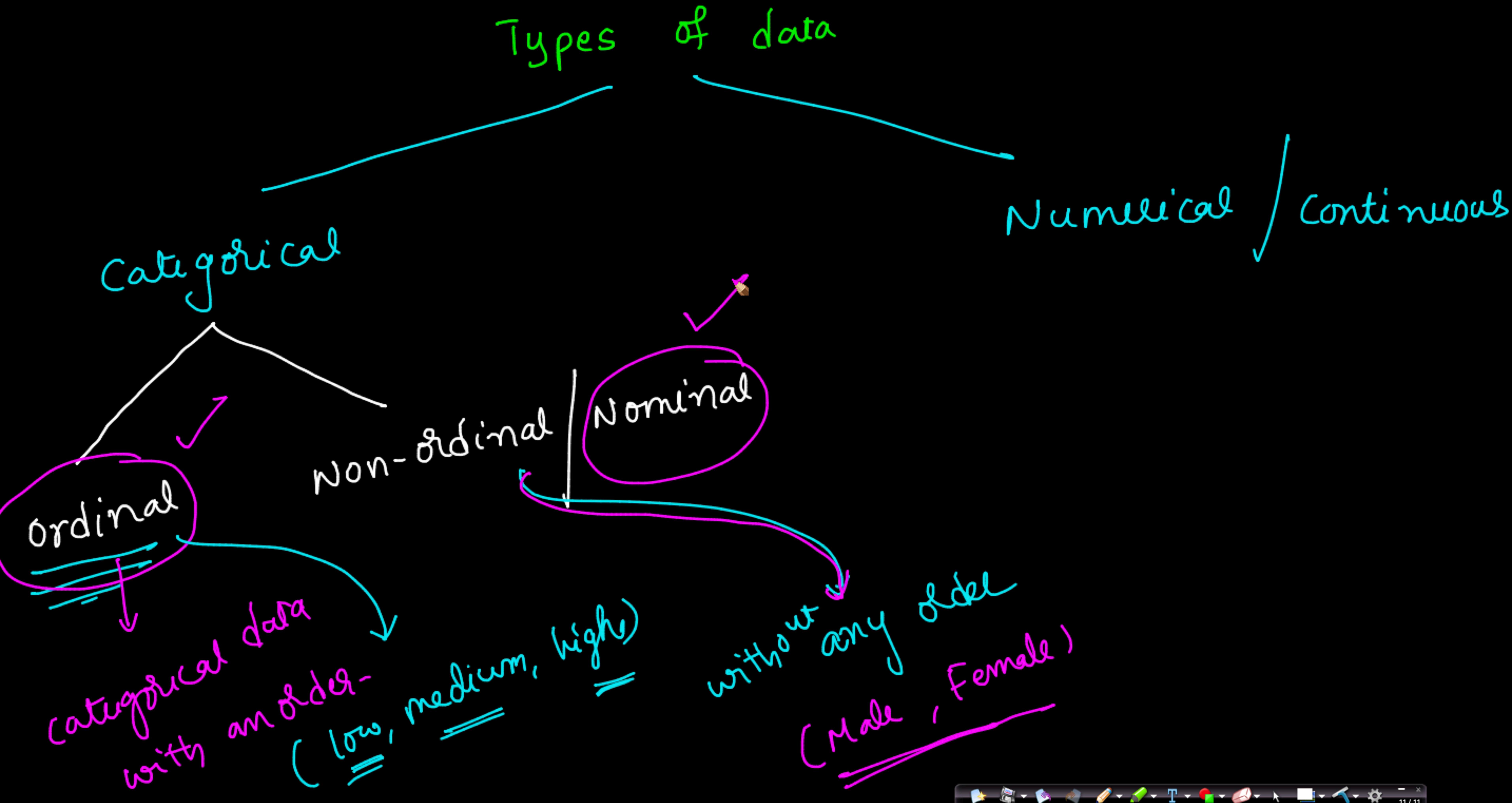
(1) ways to highlight the inf

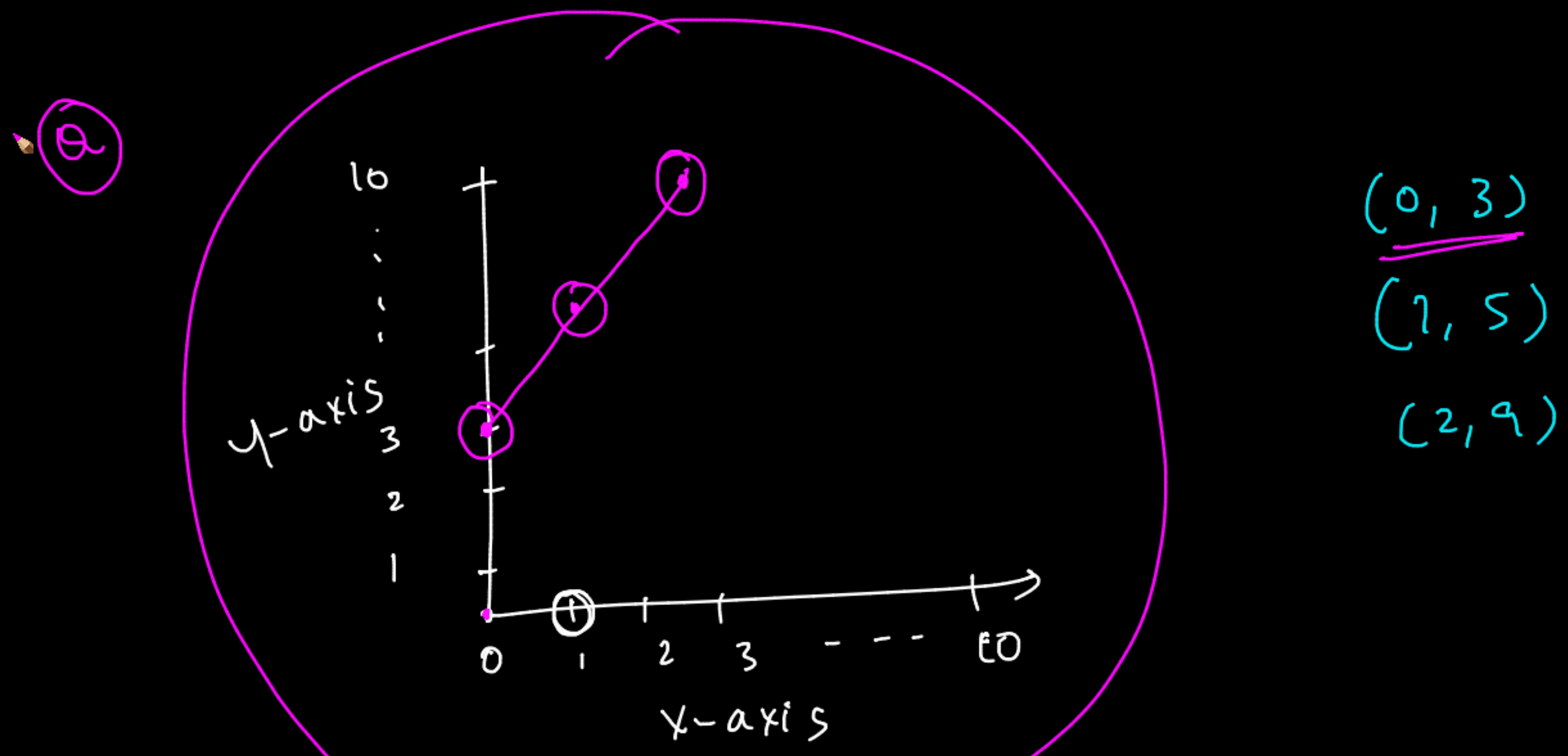
(2) right scale, labels, tick labels

Feature

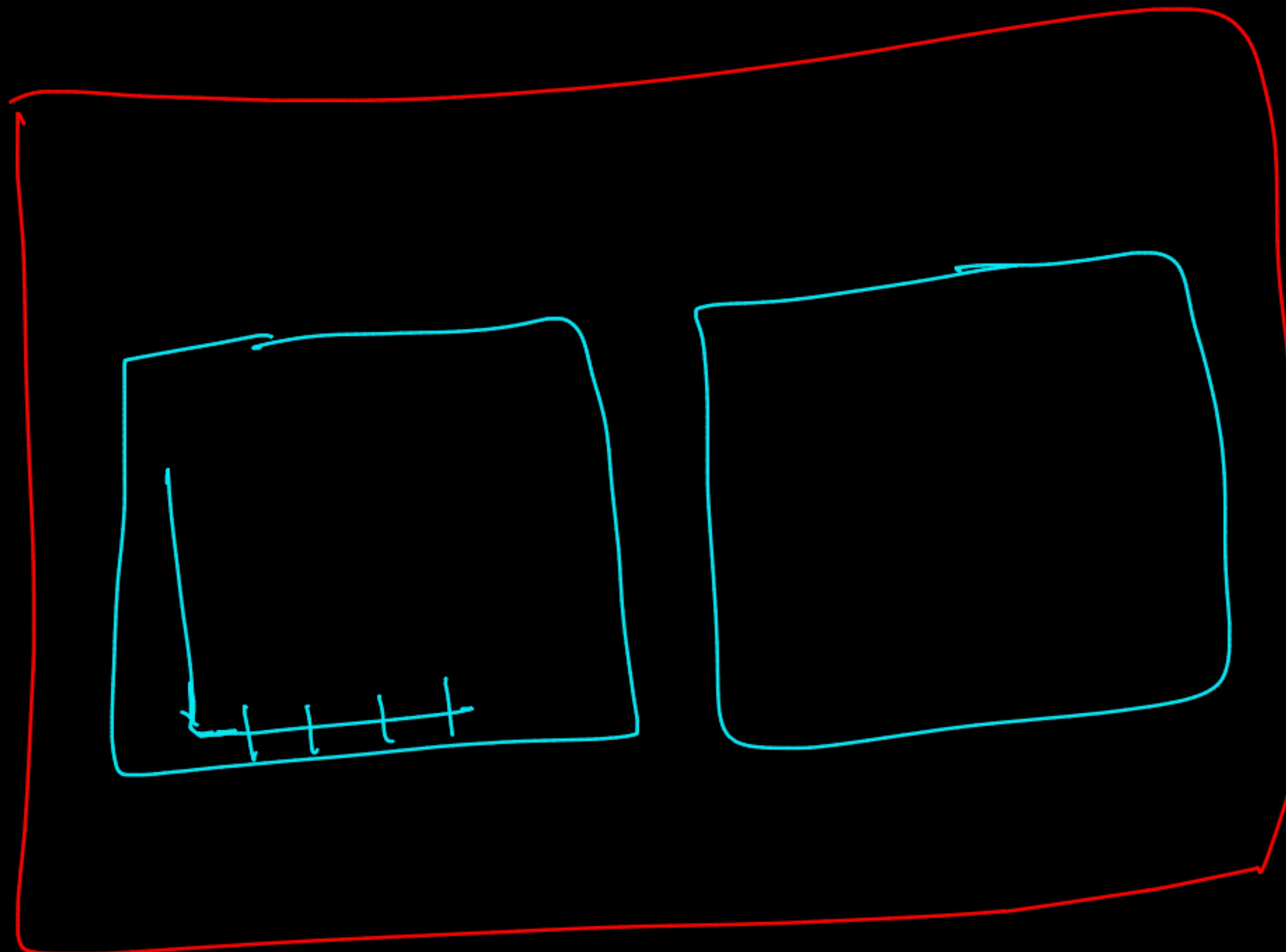


feature / variable  
record / data point /  
Sample





Pandas



# functional programming -

lambda :

anyonymous

def func(  
    return

ML - I

SDE - L

2  
3

Maple