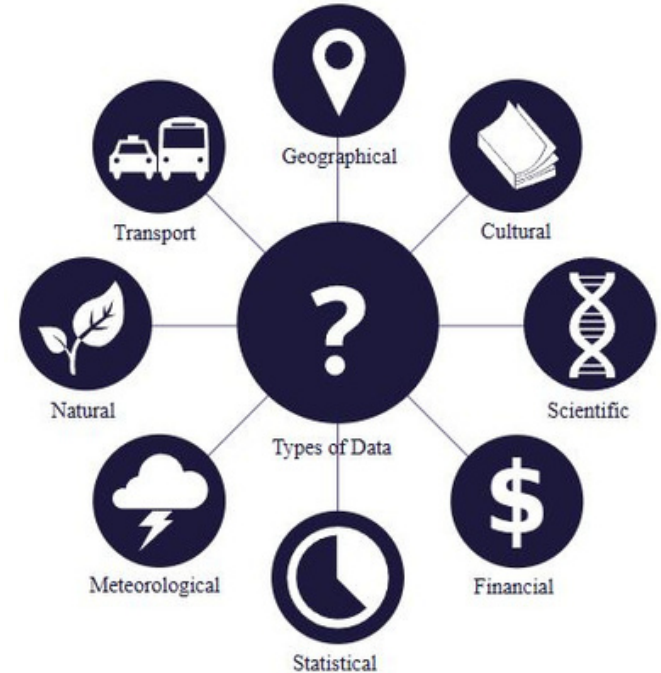**DATA** - Raw facts and figures ,
Records , files , images , audio , video etc

DATA - After analysing / studying -> we get INFORMATION

881.47

Bar Chart

BEST FOR: Comparing discrete categories or showing simple distributions.
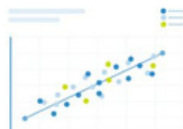
Line Chart

BEST FOR: Showing trends over time or continuous data.

Pie Chart

BEST FOR: Illustrating the composition or proportion of parts within a whole.

Scatter Plot

BEST FOR: Presenting the relationship between two variables.

Histogram

BEST FOR: Showing the distribution of continuous data.

Heat Map

BEST FOR: Visualizing density and distribution in large datasets.

✳ **Sales Performance Dashboard**

Value Average:

1,6 Billion
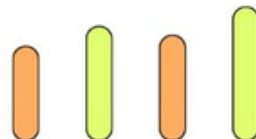
Functional Product Ratio

2:6

Customer Loyalty Percentage Level
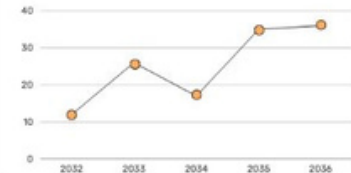
96%

Branding Exposure Effectivity Level

92%

Quarterly Sale Development

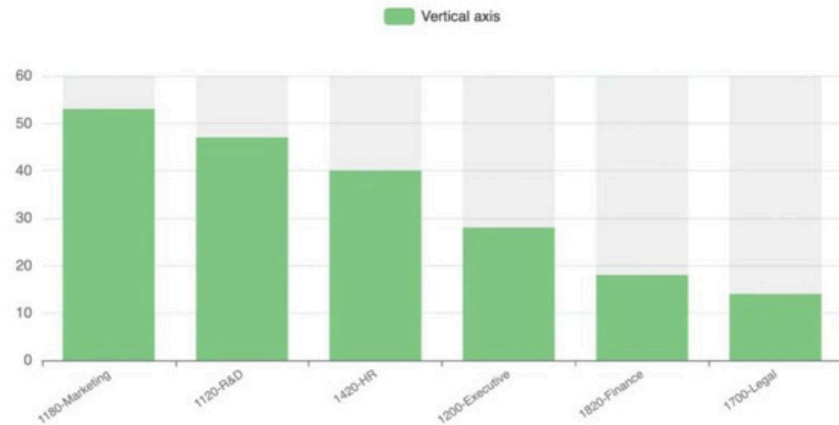Quarter 1 Quarter 2 Quarter 3 Quarter 4

Annual Sales Development

40
30
20
10
0

2032 2033 2034 2035 2036

zenphi

Demos Workspace ▾ › Spaces › 🌐 Supplier Invoice Pro... › Tables › Supplier Invoices

Supplier Invoices

Space | Tasks

← Supplier Invoices | 👁 Hide fields | ≡ Filter | ↕ Sorted by 1 fields | ≣ | 🔍 Sea...

#		T Invoice Number		T Supplier Name		📅 Issue Date		📅 Due Date
1	⋮	28-370-2581		Salesforce		2021-11-23, 02:00 AM		2020-12-3, 02:00
2	⋮	39-501-0561		Quickbooks		2021-11-19, 02:00 AM		2021-5-3, 03:00
3	⋮	71-228-7840		Quickbooks		2021-11-16, 02:00 AM		2021-9-27, 03:00
4	⋮	94-632-1029		Apple		2021-11-10, 02:00 AM		2021-4-17, 03:00
5	⋮	68-047-5709		GitHub		2021-11-8, 02:00 AM		2021-4-4, 03:00
6	⋮	40-642-3354		Google		2021-11-8, 02:00 AM		2021-5-20, 03:00
7	⋮	63-488-9304		NYT		2021-11-2, 02:00 AM		2021-6-30, 03:00
8	⋮	11-907-9857		Xero		2021-10-30, 03:00 AM		2021-8-13, 03:00
9	⋮	66-812-7883		Sendgrid		2021-10-29, 03:00 AM		2021-6-28, 03:00
10	⋮	30-396-8102		Sendgrid		2021-10-24, 03:00 AM		2021-1-19, 02:00
11	⋮	76-793-1356		NYT		2021-10-24, 03:00 AM		2021-2-1, 02:00
12	⋮	90-170-2148		GitHub		2021-10-23, 03:00 AM		2021-7-13, 03:00 AM
13	⋮	79-559-0222		Xero				
14	⋮	79-378-1199		Sen...				
15	⋮	40-317-9353		Xero				
16	⋮	46-544-2827		Appl...				
17	⋮	79-736-3057		Xero				
18	⋮	44-919-1783		NYT				
19	⋮	63-134-2765		GitH...				
20	⋮	17-557-1220		NYT				

200 records

New series chart

🟩 Vertical axis

Categories: 1180-Marketing, 1120-R&D, 1420-HR, 1200-Executive, 1820-Finance, 1700-Legal

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My Tasks by Supplier

🟥 Salesforce
🟥 NYT
🟥 Quickbooks
🟥 Xero
🟥 Apple
🟥 Forbes
🟥 GitHub
🟥 other

Pie segments: Salesforce, NYT, Quickbooks, Xero, Apple, Forbes, GitHub, other

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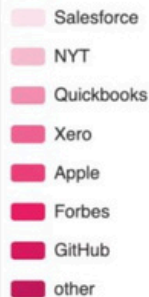
In progress

9
Invoices

Processed

42
Invoices

69.00 GBP

DATA

Numerical

NON Numerical

1 , 2 , 3
80 ,90 ,100 ,etc
Anything in number

A , b , c

My name is xyz

Red , blue , green

Have a good day

Python Programming

ANYTHING NON Number

DATA

Numerical

Discrete
(Countable)

50% , 25

Any single

numerical value

EG : movie ratings

Continuous
(Non - Countable)
Class intervals

1 ,2, 3, 4, 5, 180 , 200 ,

10-20 , 20-30 , 30 - 40

Anything continuous in

nature Eg: stock prices

Weather Data

NON Numerical

Categorical

Red , blue , green

A grade , C+ grade ,

GOod , bad etc

Any category

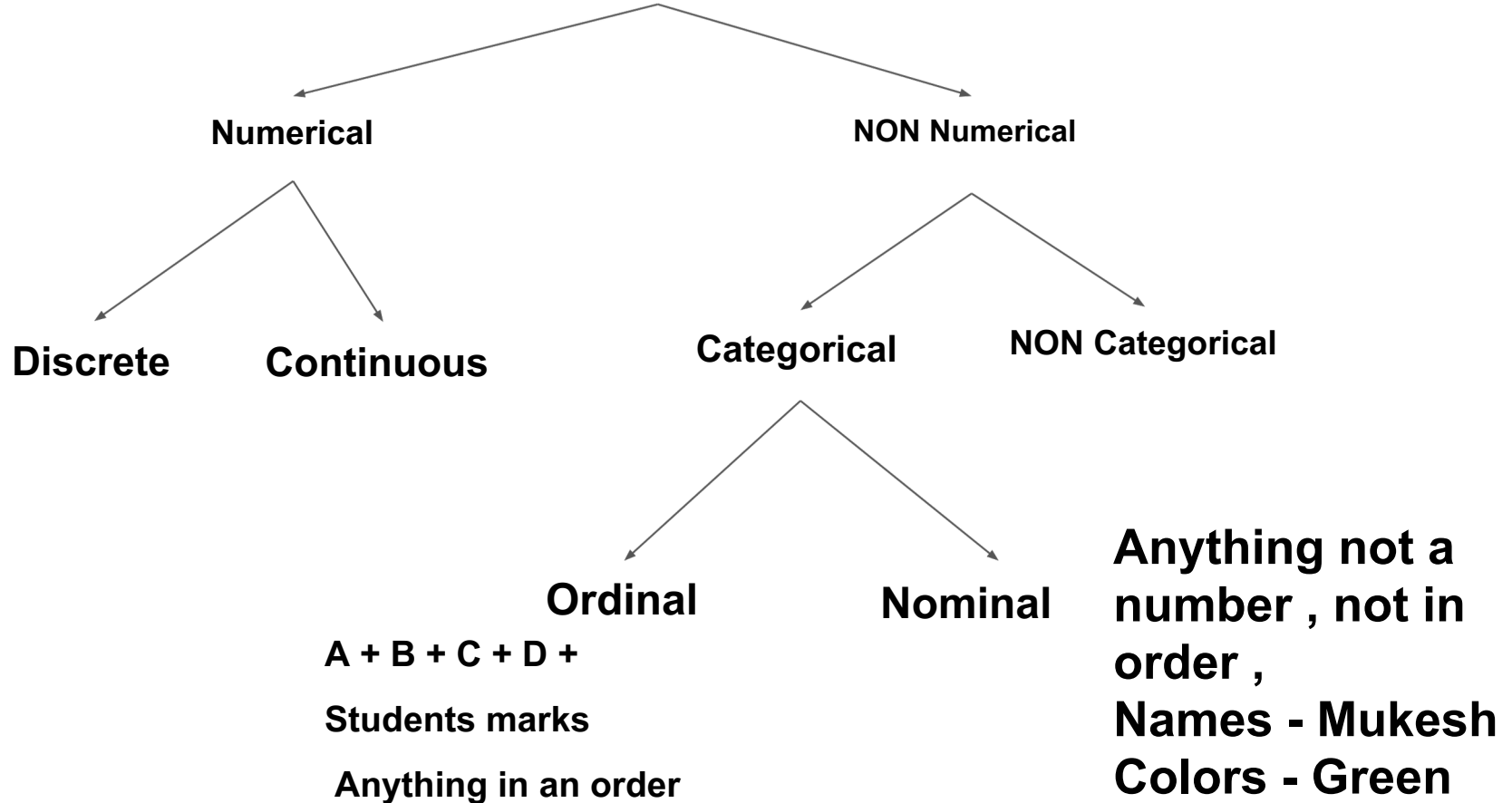### NON Categorical

English sentence

I am a student

Instagram comments

DATA

```
                    DATA
                   /      \
          Numerical        NON Numerical
           /    \              /        \
    Discrete  Continuous  Categorical   NON Categorical
                              /    \
                        Ordinal    Nominal
```

Numerical

Discrete   **Continuous**

NON Numerical

Categorical   NON Categorical

Ordinal   **Nominal**

A + B + C + D +

Students marks

Anything in an order

Anything not a number , not in order , Names - Mukesh Colors - Green

DATA

Numerical

NON Numerical

Discrete   **Continuous**

Categorical   **NON Categorical**

Count Plot   Histogram,
                   Distribution plot

Ordinal   **Nominal**   Word clouds

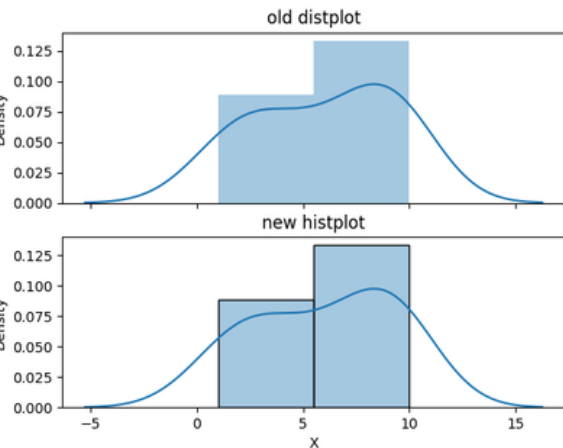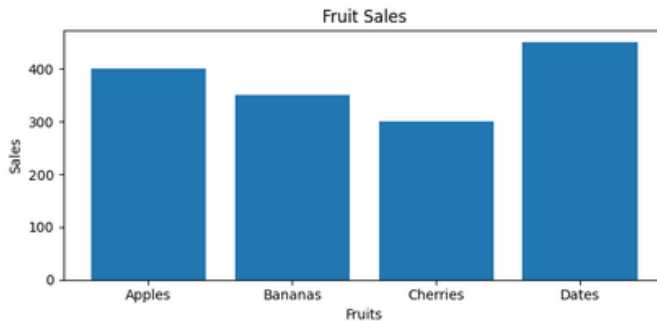**Pie Plot ,**   Box plot , violon plot

bar plot   Conitnous bar plots
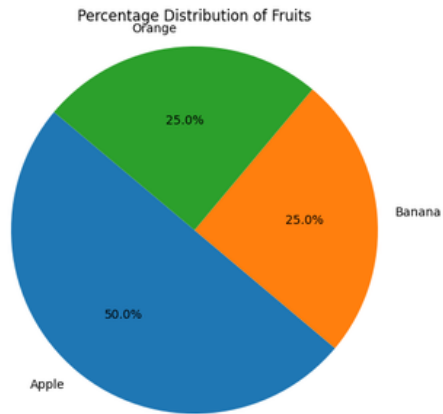
Count Plot   , Pie Plot

A bunch of relevant plots = Dashboard
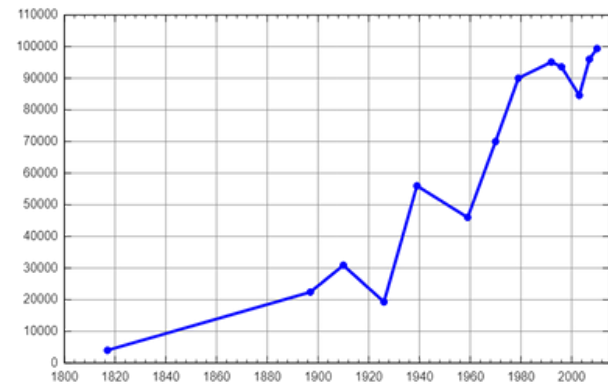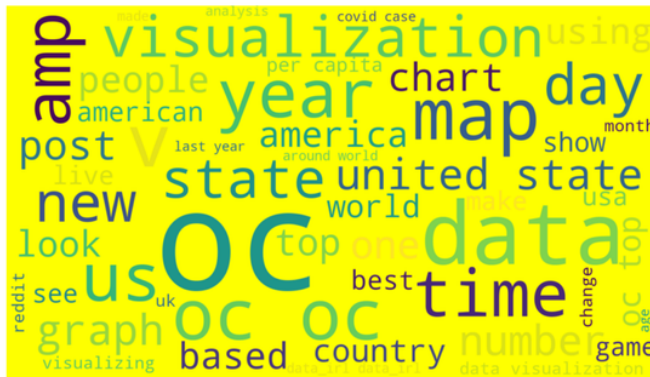
📊 **1. Discrete Data (Countable, Finite Values)**

Bar Plot – Comparing counts or frequencies of categories.

Count Plot – Shows the count of observations in each category.

Pie Chart – Displays proportional distribution (good for few categories).

Dot Plot – Visualizes individual data points for small datasets.

Histogram (with gaps) – If the discrete data has ordered numeric values.

📈 **2. Continuous Data (Infinite, Measurable Values)**

Histogram – Shows the distribution of data over continuous intervals.

Box Plot – Displays median, quartiles, and outliers.

Line Plot – Best for trends over time (time series).

Scatter Plot – Examines relationships between two continuous variables.

Density Plot (KDE) – Smoothed distribution of continuous data.

Violin Plot – Combines boxplot and density plot for distribution insights.

🏷️ 3. Categorical Data

✅ Ordinal (Ordered Categories)

Bar Plot – To compare frequencies while maintaining the order.

Box Plot – Compare distributions across ordered categories.

Point Plot – Highlights trends across ordered categories.

🚫 Nominal (Unordered Categories)

Bar Plot – Shows counts without concern for order.

Pie Chart – For proportional data representation.

Count Plot – Frequency of each category.

Mosaic Plot – Shows proportions across multiple variables.

📂 4. Non-Categorical Data (Mixed or Complex Data)

Heatmap – For correlation matrices or spatial data.

Pair Plot – Visualizes pairwise relationships (great for EDA).

Bubble Chart – Adds a size dimension to scatter plots.
Treemap – Hierarchical data visualization.

Boxen Plot – For large datasets to display data distribution.

Hexbin Plot – For dense scatter plots (bins similar data points).