15-06-2025

Agenda:
→ git - II
→ Data visualization

→ git init : initilize a new git repository.

```
|— A ← git init ( content of folder
|        A )
|— B
|— C
↑
git init → A, B, C & all contents
```
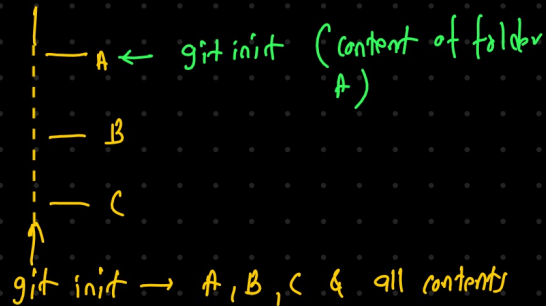
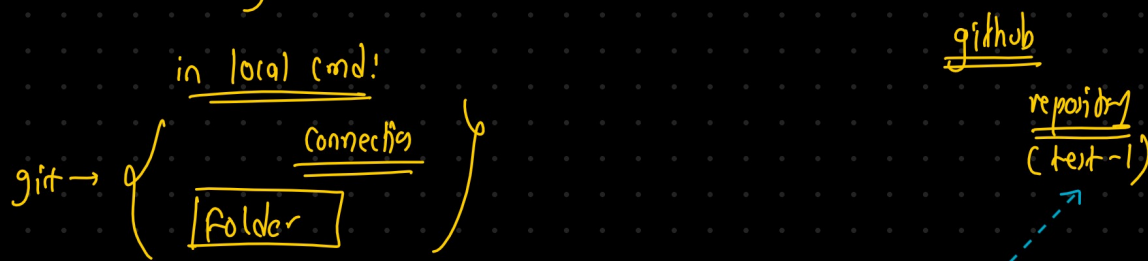→ git add "file_name"
        or
      '.' → all

→ add files in staging, makes them ready for the next commit.

4-apples → bought
✓ -ve
3-apples

→ git commit —m "bought apple"   → record the staged changes
                                         as a new commit.
        "bought everything"

→ git config --global user.email } configure git (only 1 time)
                        user.name

when creating repository for the first time :—

in local cmd:

github

repository
(test - 1)

git → { connection
      folder }

→ git remode add origin "https link of remote github repo url"

→ git push -u origin main
                    → branch ← master
      --set-upstream

→ git clone url
      → bring files from remote repo to local system

----

git clone "url"
      ↓
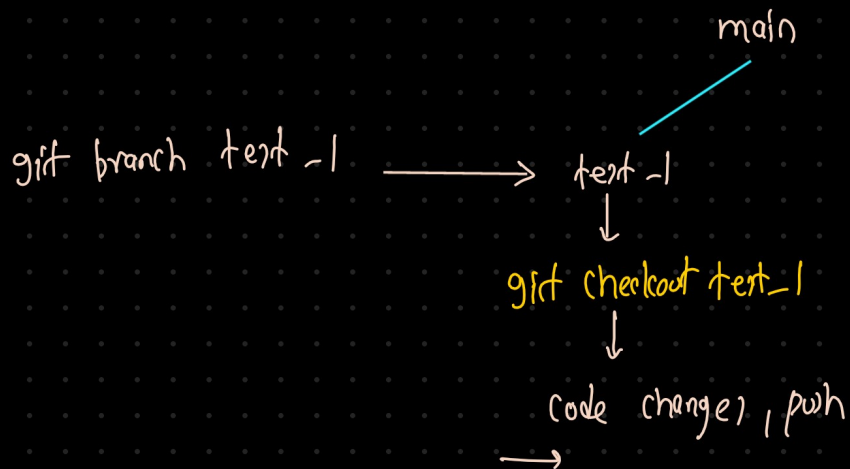
→ .git
→ files
→ url of remote repo
→ changed 1 file.
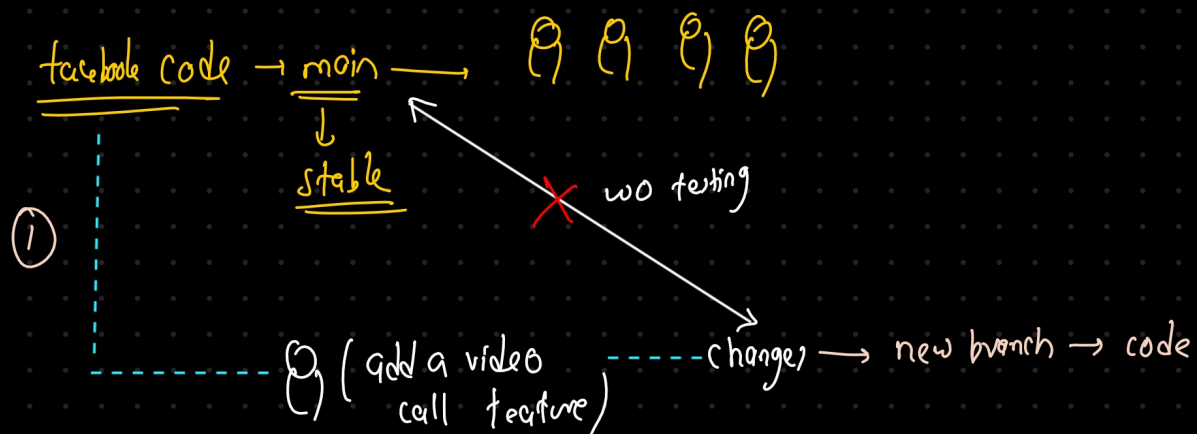
git init

git add .

git commit -m "change"

git remote

git push -u origin main   /   git push

→

remote	error	local
— f1		— f1
— f2		— f2
— f3		— f3

→ git pull

←

— add .
— commit
— push

updated

---

facebook code → main → 🧍 🧍 🧍 🧍

↓
stable

① ✗ wo testing

🧍 (add a video
call feature)

----changes → new branch → code

---

main

git branch test_1 ⟶ test_1

↓

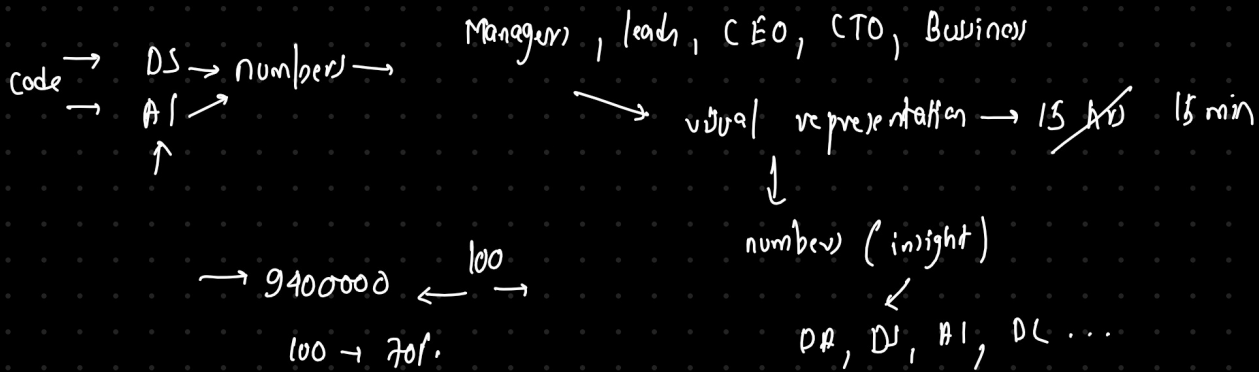git checkout test_1

↓

code changes, push

→
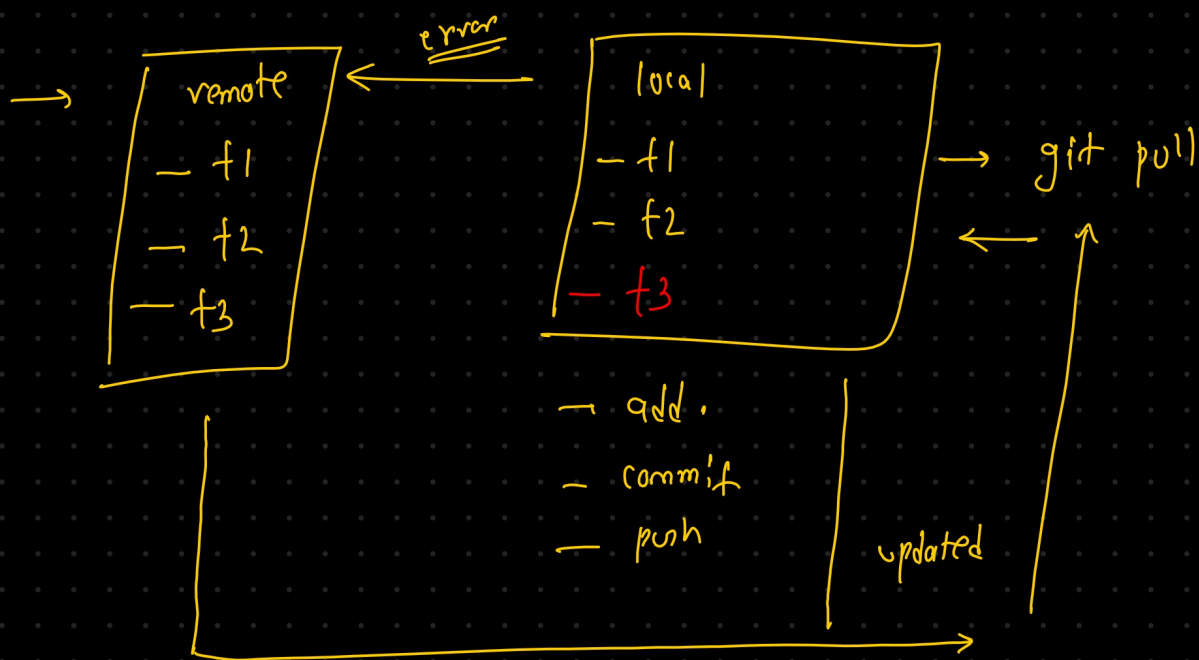
Data visualization
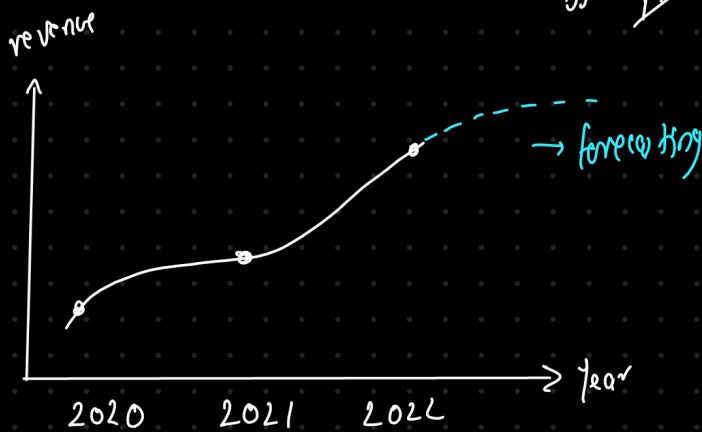
graphical representation of information and data,

- — easier to see patterns
- — trends
- — outlies
- — insights

99% | 1% ←

Code → DS → numbers →   Managers, leads, CEO, CTO, Business
   → AI ↗
   ↑   → visual representation → 15 AD   15 min
                                             ↓
                                        numbers (insight)
   → 9400000 ← 100 →   ↙
   100 → 70%.   DA, DS, AI, DL ...

facts ┐

DS → grade → Business → ✗

revenue   Facts
  ↑   ↓
  │   ___ ---   No.
  │   ●   → forecasting   ↓
  │   ●   mith
  │   ●   ↓
  │   ●   vaw
  │
  └────────────────────────→ year
    2020   2021   2022

                           Dashboards
                                      ↗
DA → Power BI
   ↘   → No → Tools → Data analysis →
     Tableu

DS → Python → Tools → yes →
AI   lib

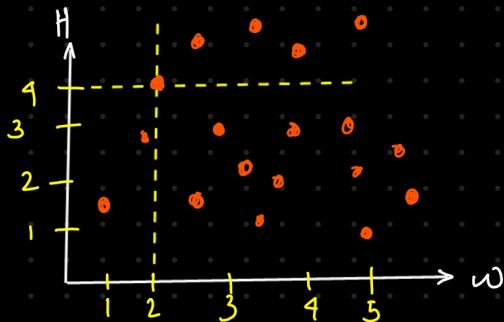→ Good color (visually pleasing)

→ Minimalism
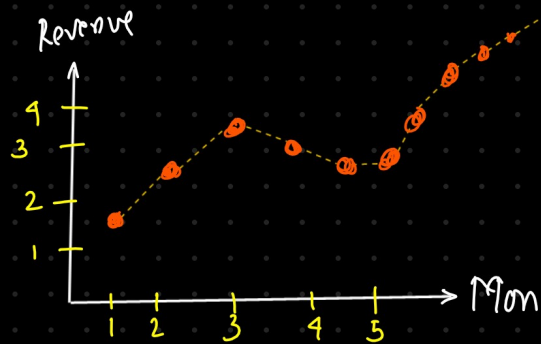

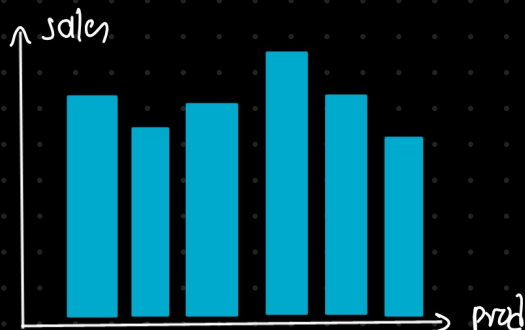→ Clear → easy to interpret   Bar, pie →

Scatter plot:

P.A	W	H
0 N1	$x_1 = 2$	$y_1 = 4$
1 N2	x_2	y_2
2 N3	x_3	y_3

line - chart

Mon	Insurance_revenu
Jan	120000 $
Feb	140000 $
Mar	180000 $

Bar plot

prod	sales
A	$
B	$
C	$

Stacked Bar plot
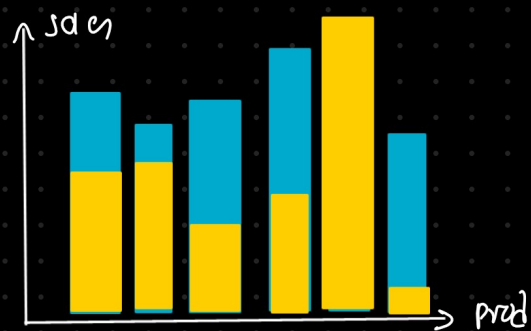
prod_food	sales	prod_elect	sales
A1	$	A2	$
B1	$	B2	$
C1	$	C2	$

pie chart

cat 1
cat 3 cat 2

Box plot / whisker plot

prod_C1	prod_C2	price_C1	price_C2
prod_1	prod_1	$	$
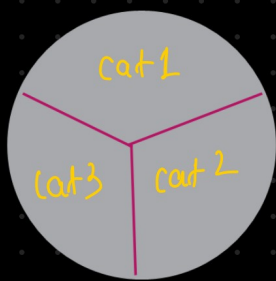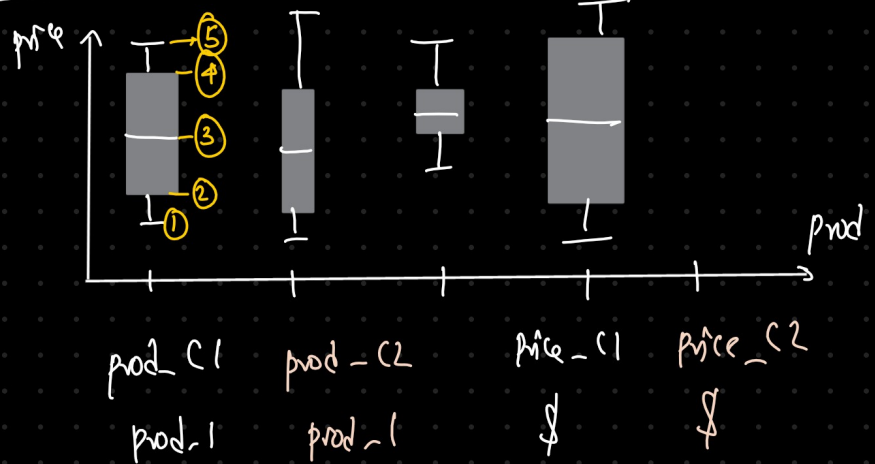
→ mean
→ outlier
→ 75% 50% 25%
→ distribution

group by

Name	Country	Salary
A	IND	1000
B	US	2000
C	CA	2000
D	IND	3000
E	US	1000
f	CA	4000

group('country')

A	IND	1000
D	IND	3000
B	US	2000
E	US	1000
C	CA	2000
f	CA	4000

Invoice	month	Revenue
1	2009-12	26
2	2010-01	22
3	2009-12	100
4	2010-01	2
5	2010-03	100
6	2010-04	200

get revenue for month

2009-12 → revenue → sum ( )

get revenue by month
→ groupby ('month')
→ 2009-12 ⟨ 26
            100
 2010-01 → 22
            2
 2010-03 → 100
 2010-04 → 200

2009 — 12	sum
2010 — 01	sum
2010 — 03	sum
2010 — 09	sum

plot

pointin →

→ (canva)
→ size

revenue ↑

→ month

Text = "person"

X, y
↓   ↓
1   1 + 2

person

person