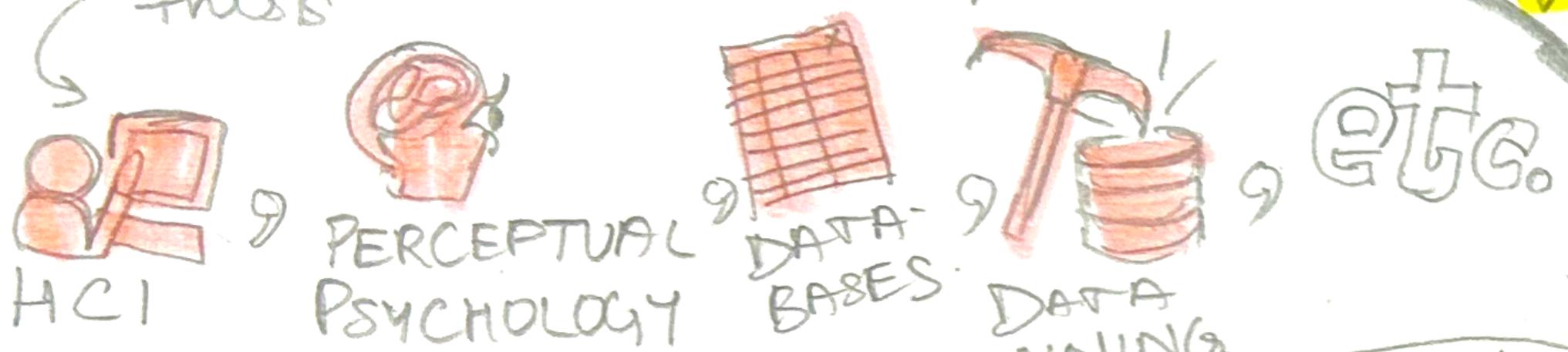


# CH 1 CH 3 Perception?

VISUALISATION?

① A tool that is useful for + communication. PS: VIZ >>> just COMPUTER GRAPHICS.



Basically...

INFO + GG = Pipeline (!)

VIZ Process?

Sort data → define Mapping → data viz → visuals

Attributes & define graphical objs.

$x_1 + x_2$  → START

EYE →法官 (Juges) → OBJECT PROPERTIES → interaction with data. → counting → EYE detects intensities ratio. → TASK OF 200-200s → SACCADIC MVMNT.

→ TARGET → BOUNDARY → (BLIND SPOT TES) → CONE → RODS → CLOUD → Light → Visible Spectrum → EYE'S RETINA → Anatomy of visual system.

Better power to perform relative judgement

CLASSIFICATION OF VIZ TECHNIQUES.  
2D-3D: Bar charts.  
Geometric: Scatterplots  
Iconic: Stars.  
Dense pixel displays  
Stacked displays.

# CH 4 Viz Foundations

① Everyone perceives things differently

different perceptions

⇒ illusions ⇒

improper relay of

PERCEPTION → ASPECTS WE CAN'T VIOLATE IN A

VIZ.

② PHYSIOLOGY.

↳ MAIN Comp. of Vision.

→ PHOTORECEPTORS

Light

Visible

Spectrum

Rainbow

Anatomy of visual system.

EYE's RETINA.

Rods

Cones

Dimensional storage

USEFUL FOR

Target

Boundary

Counting

SPATIAL

Object Properties

Judging

Interaction with data

Attributed & define graphical objs.

START

EYE

Task of 200-200s

Saccadic Mvmnt.

Relative judgement

to perform

judgement

power

better

PROCESSING.

DATA

RAW

usable

⇒ computer-

edible.

⇒ Errors

⇒ Missing

data.

→ 0 ≤ Meap ≤ 1

Meap =

correct understanding

Time

② EFFECTIVENESS.

→ 0 ≤ Meap ≤ 1

Meap =

correct understanding

Time

③ EXPRESSIVENESS.

→ 0 ≤ Meap ≤ 1

Meap =

correct understanding

Time

④ MAPPING.

→ Geometry

- Colour

- Sound

→ RENDERING

Computer graphics.

→ EFFECTIVENESS.

→ EXPRESSIVENESS.

→ MAPPING.

→ RENDERING

Computer graphics.

→ EFFECTIVENESS.

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<https://www.google.com/search?q=Dense+Pixel+display&tbs=isch&sa=X&ved=2ahUKEwiUkcTbuJuAAxVybmwGHcBPDRYQ0pQJegQIDRAB&biw=1512&bih=866&dpr=2>

<https://www.google.com/search?q=treemap+visualization&tbs=isch&sa=X&ved=2ahUKEwi0I31uZuAAxWFT2wGHZHpdwgQ0pQJegQIDBAB&biw=1512&bih=866&dpr=2#imgrc=HzgRluSo-2UQYM>