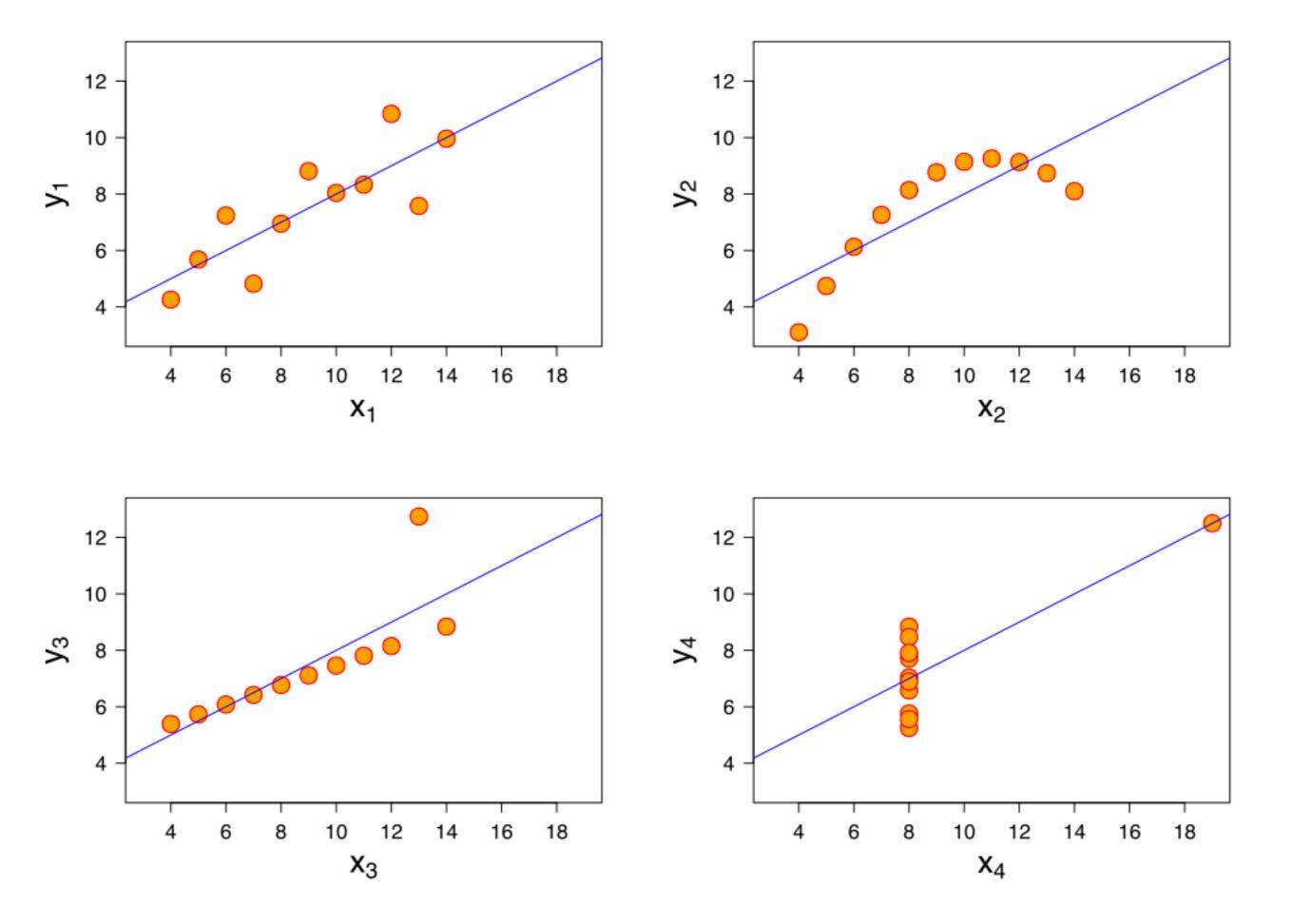
# Why we visualise Visual Perception

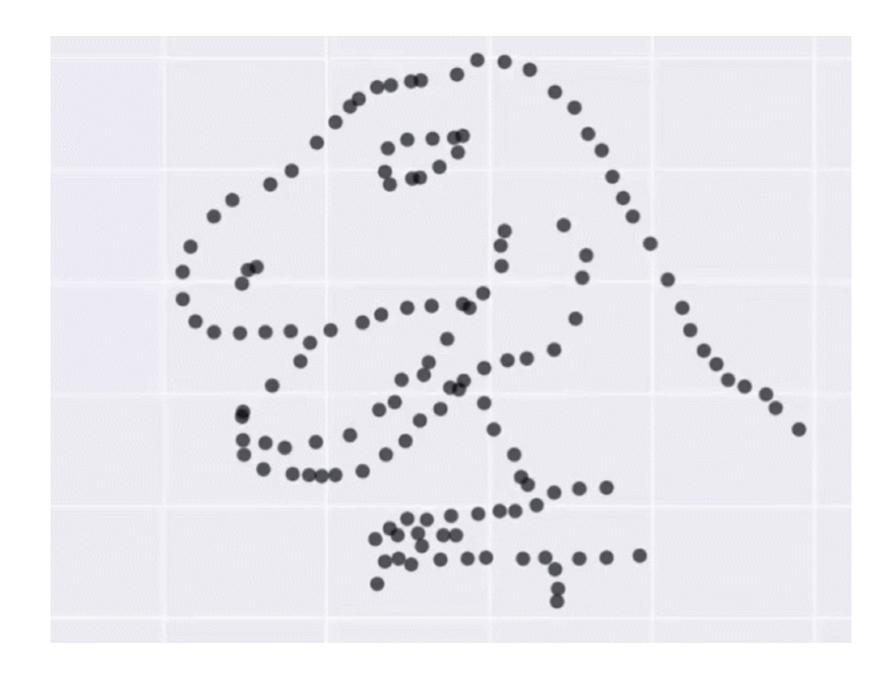
4 data tables

I		II		III		IV	
X	у	х	у	Х	у	Х	у
10	8.04	10	9.14	10	7.46	8	6.58
8	6.95	8	8.14	8	6.77	8	5.76
13	7.58	13	8.74	13	12.74	8	7.71
9	8.81	9	8.77	9	7.11	8	8.84
11	8.33	11	9.26	11	7.81	8	8.47
14	9.96	14	8.1	14	8.84	8	7.04
6	7.24	6	6.13	6	6.08	8	5.25
4	4.26	4	3.1	4	5.39	19	12.5
12	10.84	12	9.13	12	8.15	8	5.56
7	4.82	7	7.26	7	6.42	8	7.91
5	5.68	5	4.74	5	5.73	8	6.89

Mean of x	9
Variance of x	11
Mean of y	7.5
Variance of y	4.125
Correlation x and y	0.816
Linear Regression line	y = 3 + 0.5x
Coefficient of determination of the LR	0.67

sharing the same summary statistics





Why?

## sort of \



## Visual powers

66% of stimuli reaching the brain are visual (Zaltman 1996)

50% of brain is devoted to processing visual images (Bates & Cleese 2001)

80% of learning is visually based (Am. Optometric Assoc., 1991)

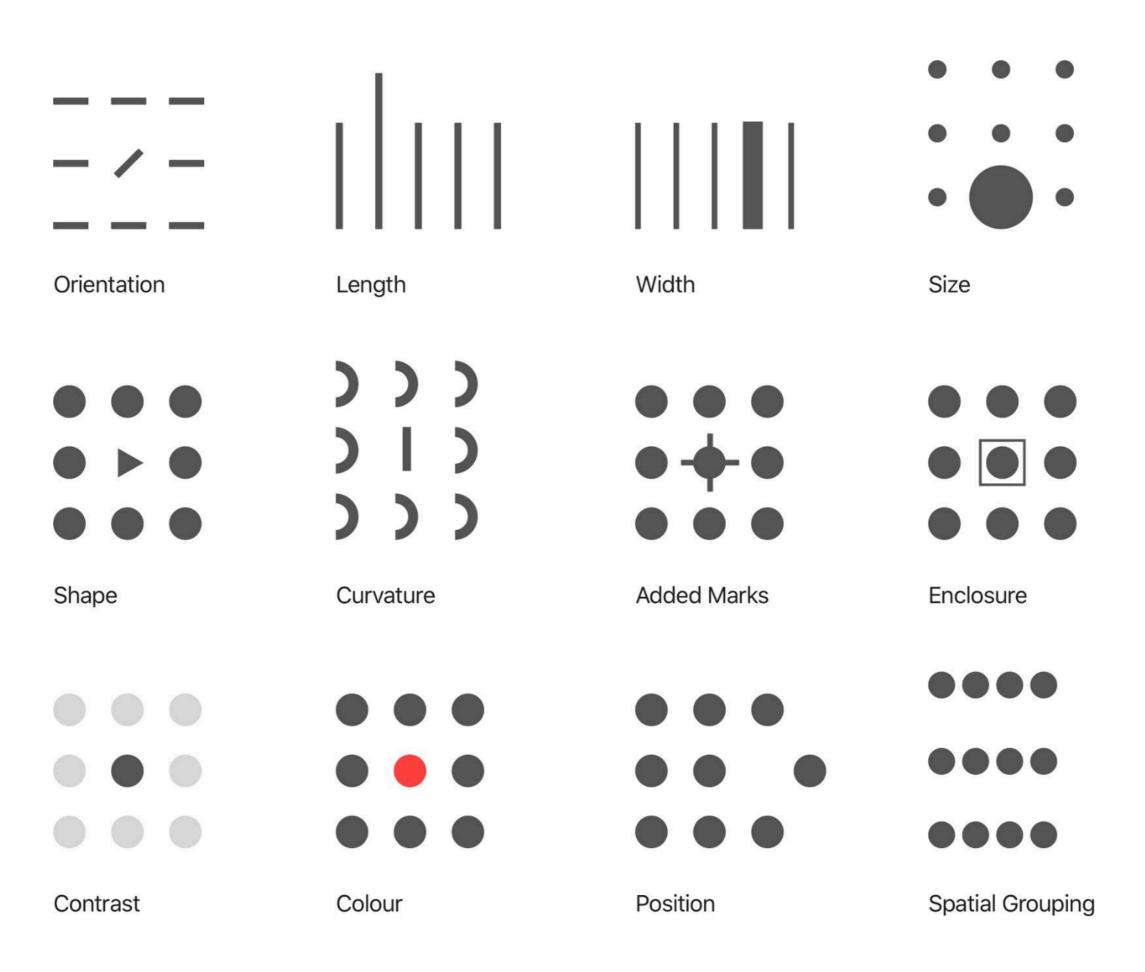
#### The secret

# Preattentive processing

## Preattentive processing

Processing of sensory information that stands out **before** the conscious mind starts to pay attention to any specific objects.



# Why do we visualise?

Our visual system is **fast** 

Our visual system is good at pattern recognition

Our visual system is good at providing an **overview** 

Our visual system allows us to **memorise** information as images