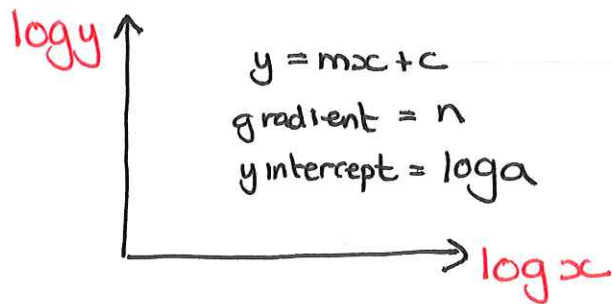


- Regression

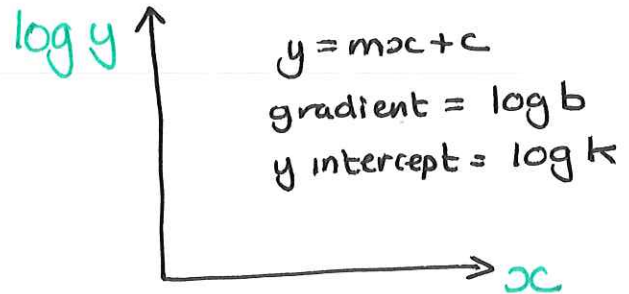
$$y = ax^n$$

$$\log y = \log a + n \log x$$



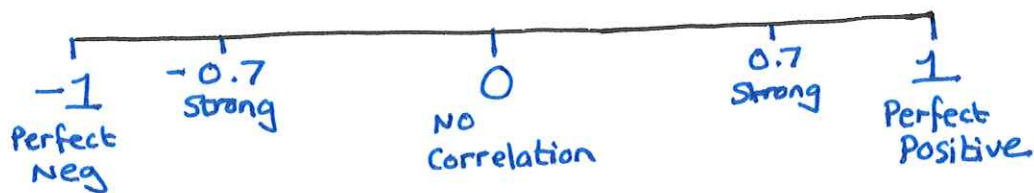
$$y = kb^x$$

$$\log y = \log k + x \log b$$



- Product Moment Correlation Coefficient

$$\text{pmcc } (-1 \leq r \leq 1)$$



- Hypothesis Testing

$$H_0: p = 0$$

$$H_1: p > 0$$

positive

$$H_0: p = 0$$

$$H_1: p < 0$$

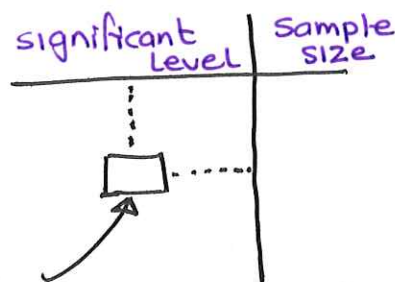
negative

$$H_0: p = 0$$

$$H_1: p \neq 0$$

any correlation

pmcc Table



minimum value need to be statistically significant (accept H_1)