

- Excellence in graphics consists of complex ideas communicated with clarity, precision and efficiency
- Graphics can reveal the underlying data that may be lost in simple summary measures

- Consider the following four datasets (Anscombe's Quartet)

I		II		III		IV	
x	y	x	y	x	y	x	y
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

- Each dataset has the same
 - Mean of x, var of x
 - Mean of y, var of y
 - Best fit regression line: $y = 3 + 0.5 * x$
 - Correlation
 - Statistical significance

