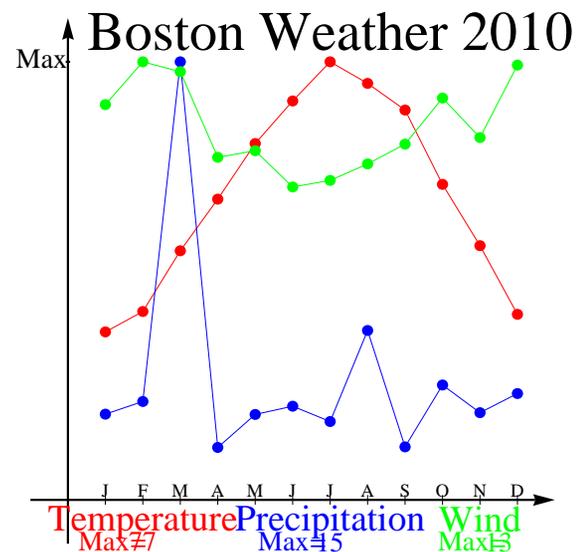


Lecture 1: Worksheet

Month	Year	Temperature	Precipitation	Wind
01	2010	29.6	2.91	12.0
02	2010	33.2	3.34	13.3
03	2010	43.9	14.87	13.0
04	2010	53.0	1.78	10.4
05	2010	62.8	2.90	10.6
06	2010	70.3	3.18	9.5
07	2010	77.2	2.66	9.7
08	2010	73.4	5.75	10.2
09	2010	68.7	1.80	10.8
10	2010	55.6	3.90	12.2
11	2010	44.8	2.96	11.0
12	2010	32.7	3.61	13.2

To illustrate how algebra enters, lets add up all the rows and divide by the number of rows. This is called the average. We can also look at the average square distance to the mean, this is the standard deviation.

Month	Year	Temperature	Precipitation	Wind
6.5	2010	53.7667	4.13833	11.325



- 1 Can you give a rough estimate the standard deviation of the Temperature?
- 2 We will define correlation later. But if you look at the data, can you see some correlations?
- 3 Would there be other ways to visualize the temperature, precipitation and wind data?
Brain storm.