Document Summaries

Statistics for all documents

Barometer

	Barometer
Measure	Baro
sum	358549.6
min	979.6
max	1035.6
count	355
mean	1009.999
variance	97.136
standard deviation	9.856

Rainfall

	Rainfall
Measure	mm
sum	546.7
min	0.0
max	23.2
count	353
mean	1.549
variance	11.022
standard deviation	3.32

Indoor Temperature

	Indoor Temp Readings			
Measure	Humidity	Temp	Temp (Low)	Temp (High)
sum	17176	7727.071	7276.8	8330.9
min	37	18.04	14.9	19.7
max	59	29.21	28.2	31.1
count	354	354	354	354
mean	48.52	21.828	20.556	23.534
variance	26.848	4.225	5.768	2.887
standard deviation	5.182	2.055	2.402	1.699

Outside Temperature

	Outdoor Temp Readings		
Measure	Temp	Temp (Low)	Temp (High)
sum	3954.301	2792.3	5511.1
min	-1.81	-4.1	1.5
max	26.38	18.7	38.5
count	355	355	355
mean	11.139	7.866	15.524
variance	28.596	23.737	49.344
standard deviation	5.347	4.872	7.025

Statistical Differences

There are two files.

- A list of outdoor temperature readings
- An edited version of outdoor temperature readings

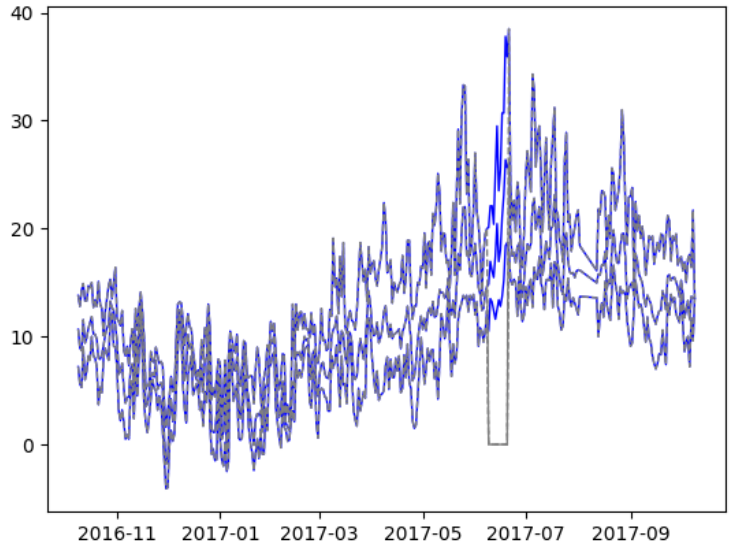
The edited version imagines that from 2017-06-09 to 2017-06-20 the thermometer was broken and only reported 0.0°C for all measures.

The statistics for the two files are this:

	Outdoor Temp Readings			**Edited Temp Readings**		
Measure	Temp	Temp (Low)	Temp (High)	Temp	Temp (Low)	Temp (High)
sum	3954.301	2792.3	5511.1	3721.921	2626.4	5187.7
min	-1.81	-4.1	1.5	-1.81	-4.1	**0.0**
max	26.38	18.7	38.5	26.06	18.0	38.5
count	355	355	355	355	355	355
mean	11.139	7.866	15.524	10.484	7.398	14.613
variance	28.596	23.737	49.344	29.595	24.217	51.159
standard deviation	5.347	4.872	7.025	5.44	4.921	7.153

Comparing the stats between them only identifies one measure that looks a bit strange. Most of the stats are very similar. A minimum value of 0.0°C for the column of Temperature (High) doesn't strike me as correct. If I saw this, I would try find that value in the source data. I would then obviously see the error.

However, in general, stats only give you a one-dimensional picture of your data. The best way to assess whether you have any data quality issues would be to visualise it.



In the above image the solid blue line is the original data. The dashed grey line is the altered data set. They overlap completely for the most part, but the altered incorrect data is immediately obvious.