

A test of Knitr, pgfplotstable and gnuplot with L^AT_EX

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First of all, let's see how does R behave.

```
data = read.table('datafile.txt');
first_col = data$V1
second_col = data$V2
mean(second_col) # Only the last line prints the output

## [1] 22.31191
```

Seems nice enough, isn't it? I can also inline R results, so I can say that there are 23 values in that datafile, and the maximum of the first column is 6000. I could include those values in more complicated equations, such as

$$\max\{\text{data}\} - \min\{\text{data}\} = 6000 - 5780 = 220$$

If the file changes, the results change too.

On to a more real-life example: using R to create a plot. Just disabling the code output with `echo = FALSE` and setting a label to refer to the figure 1

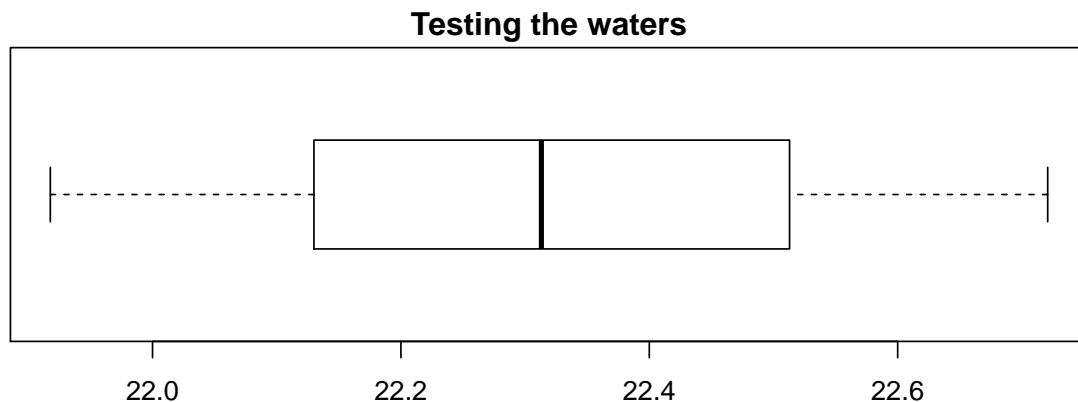


Figure 1: This is the caption for the figure

We could also include a Gnuplot script: just input the *.tex* file and the results shows in figure 2.

And, finally, the *pgfplotstable* sample: take a look at table 1.

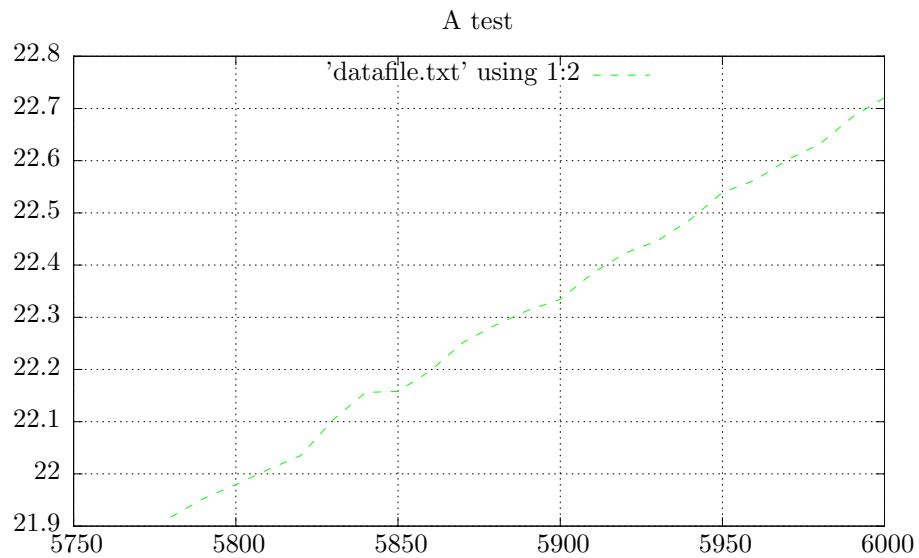


Figure 2: A graph directly from Gnuplot

Column 1	Column 2
5,780	21.92
5,790	21.95
5,800	21.98
5,810	22.01
5,820	22.04
5,830	22.1
5,840	22.16
5,850	22.16
5,860	22.2
5,870	22.25
5,880	22.29
5,890	22.31
5,900	22.33
5,910	22.38
5,920	22.42
5,930	22.45
5,940	22.49
5,950	22.54
5,960	22.56
5,970	22.6
5,980	22.63
5,990	22.68
6,000	22.72

Table 1: A test table.