

A test document

1 Always-visible code

Let's pretend we're writing a real lab handout. We'd start with some example code that the students might want run, but the code shown here wouldn't actually work as written.

```
# This would cause an error if actually executed
model = lm( your dummy ~ formula here, data = your data frame)
```

But here's some code that does execute properly, because both of the chunk options `echo` and `eval` are `TRUE`:

```
# Generate some data
x = seq(1,10)
y = x * 3 + rnorm(10,3,2)
# Run a correlation test
cor.test(x,y)

##
## Pearson's product-moment correlation
##
## data:  x and y
## t = 14.789, df = 8, p-value = 4.3e-07
## alternative hypothesis: true correlation is not equal to 0
## 95 percent confidence interval:
##  0.9239779 0.9959263
## sample estimates:
##          cor
## 0.9821992
```

By default, knitr adds two hashmarks ahead of the output that is returned by R, as seen above for the output of the correlation test.

2 Hiding instructor code

Next we'll write some R chunks that only show up when `showInstruct=TRUE`. If this is the instructor version, you should see some R code to generate more data and another correlation test. But if this is the student version, there should be no R code immediately below this line in the PDF document.

If the instructor code was activated, you should have seen a chunk of R output above this line in the PDF document.

Exercise: In the student version, this boxed section would contain a question to be answered.

We can also include some regular text that will only appear in the instructor version. A box with text should appear below in the PDF document if the instructor version is active, but in the student version the next section will start instead.

3 Figures

Including a figure in the student and instructor version is fairly straightforward if you're used to writing TeX code.

```
plot(x,y, type = 'b', las = 1, main='Student version')
```

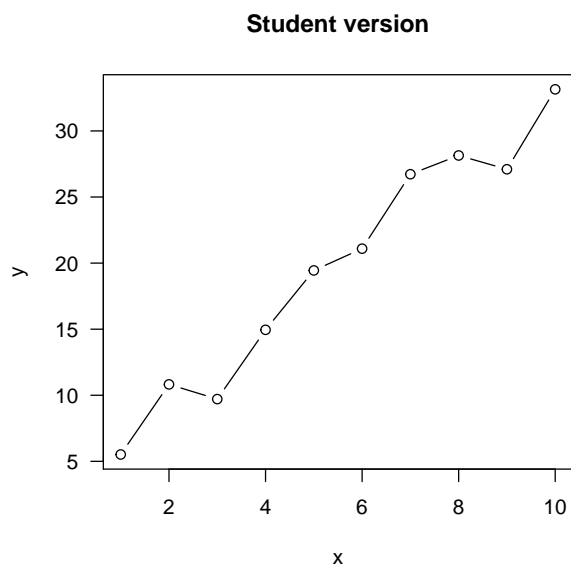


Figure 1: A simple plot, included by default in both student and instructor versions of the handout.

Next we'll try the instructor-only plotting. A figure should only show up when you have set `showInstruct=TRUE` up near the start of the .Rnw document (line 63 on this file). But if this is the student version, there will be nothing after this line.