

Dummy example of a conditional Sweave file for worksheets

Tuxette (also known as NV²)

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This file illustrates how to include computable R code in a worksheet in a way that a single file can be computed to produce either a student version (with only the instructions) and a teacher version (with the correction). The method uses Sweave¹ (and the R package **knitr**² under RStudio environment) and the \TeX command `\if`.

This is the teacher's version...

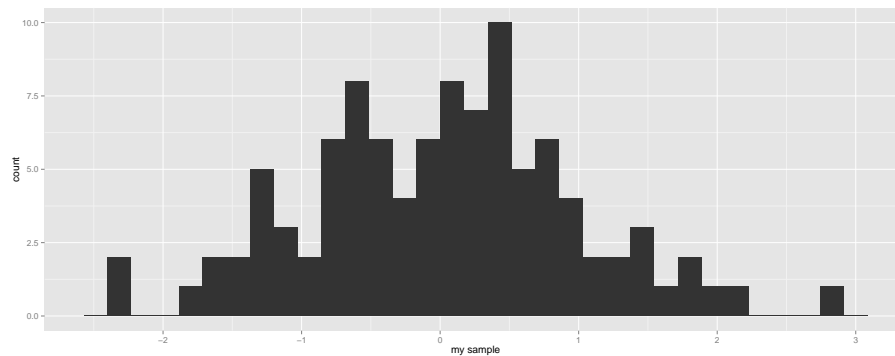
Instructions: Run the following command line:

```
a.pretty.sample <- rnorm(100, 0, 1)
```

to generate a random sample of size $n = 100$ of i.i.d. observations coming from a Gaussian distribution $\mathcal{N}(0, 1)$. Using the R package **ggplot2**, draw this pretty histogram that displays the empirical distribution of `a.pretty.sample`:

Answer:

```
qplot(a.pretty.sample, geom="histogram") + xlab("my sample")
```



¹<https://www.stat.uni-muenchen.de/~leisch/Sweave/>

²<http://yihui.name/knitr/>