

# Dummy example of a conditional Sweave file for worksheets

Tuxette (also known as NV<sup>2</sup>)

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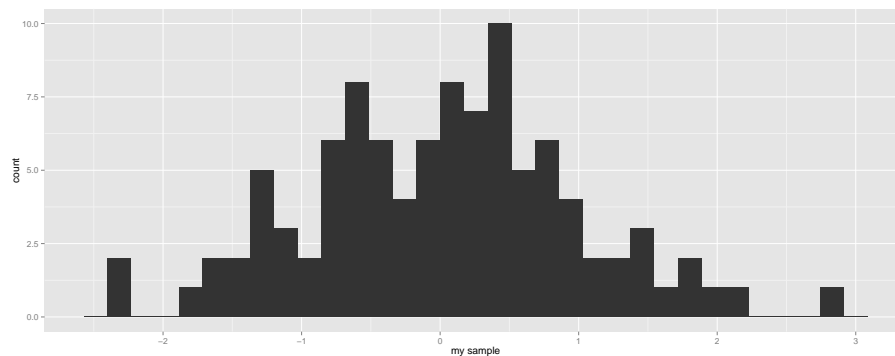
This file illustrates how to include computable R code in a worksheet in a way that a single file can be computed to produce either a student version (with only the instructions) and a teacher version (with the correction). The method uses Sweave<sup>1</sup> (and the R package **knitr**<sup>2</sup> under RStudio environment) and the  $\TeX$ command `\if`.

*This is the students' 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`:



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

<sup>2</sup><http://yihui.name/knitr/>