## Name

Note that here we can add any comments, etc to talk about what we're coding.

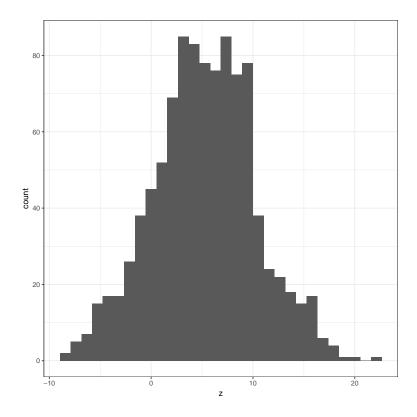
```
# <<label , options=TRUE, options=FALSE>>=
set.seed(12345)
x <- 5  # Five x's
y <- 5  # Five y's
# @</pre>
```

We can do some cool things with our code:

```
# Here echo =TRUE to show code, to hide from .pdf: echo=FALSE

# Code Setup/ and Formatting:
library(knitr)
# This code is for figures, which may be similarly customized output visualizations:
## See https://github.com/yihui/knitr/blob/master/inst/examples/knitr-themes.Rnw
## and https://github.com/yihui/knitr/blob/master/inst/misc/Sweavel.sty
# to fix arrow <_ issue vs <-
options(formatR.arrow=TRUE, width=78)

##! Changing out theme to "kellys"
##! For Printing, consider changing this to "moe" or "edit-xcode"
##! Check out Themes at: http://animation.r-forge.r-project.org/knitr/
theme = knit_theme$get("kellys")
knit_theme$set(theme)</pre>
```



Essentially this is just a beautiful cross between LATEX and R; a few things to note here:

- 1. Spell checker is a little more difficult in this format. Also the LaTeXcode will not auto-complete, making things difficult sometimes.
- 2. However, your code has to run 100% correctly from just what you enter, meaning any that reads this will have 100% reproducability!
- 3. You don't ever have to show your R code, you can have it running underneath (echo=FALSE). This means that you can actually write papers here like you would in LaTeXbut have your data and replication update automatically. This includes figure names, tables, and image customizations.
- 4. All of LaTeX commands work here as well, so creating tables, images, and references work as well!