A Minimal Demo of knitr

Yihui Xie

March 5, 2014

You can test if **knitr** works with this minimal demo. OK, let's get started with some boring random numbers:

```
set.seed(1121)
(x <- rnorm(20))

## [1] 0.14496 0.43832 0.15319 1.08494 1.99954 -0.81188 0.16027 0.58589 0.36009
## [10] -0.02531 0.15088 0.11008 1.35968 -0.32699 -0.71638 1.80977 0.50840 -0.52746
## [19] 0.13272 -0.15594

mean(x)

## [1] 0.3217

var(x)

## [1] 0.5715</pre>
```

```
set.seed(1121)
(x <- rnorm(30))

## [1] 0.14496 0.43832 0.15319 1.08494 1.99954 -0.81188 0.16027 0.58589 0.36009
## [10] -0.02531 0.15088 0.11008 1.35968 -0.32699 -0.71638 1.80977 0.50840 -0.52746
## [19] 0.13272 -0.15594 0.06415 -0.07236 0.08807 0.29775 -0.66460 -1.15103 0.40493
## [28] -0.46179 -0.79187 0.08349

sum(x)

## [1] 4.232

mean(x)

## [1] 0.1411

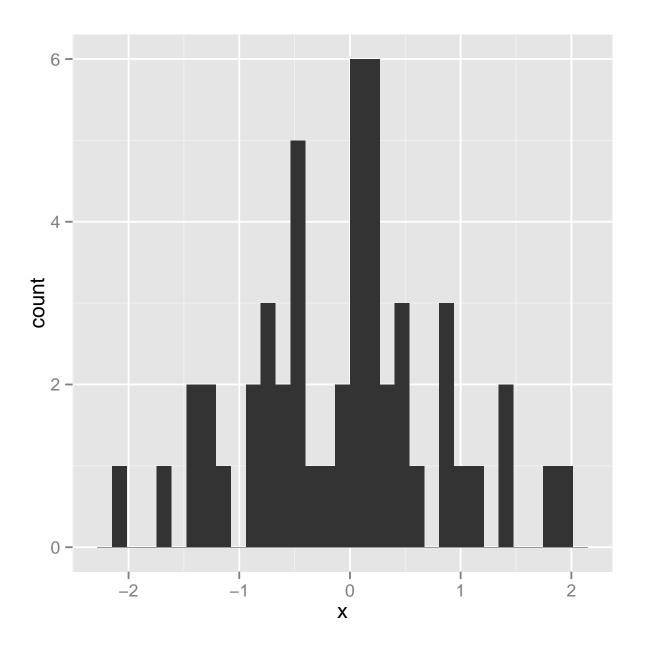
var(x)
## [1] 0.5246</pre>
```

```
set.seed(1121)

x <- rnorm(50)

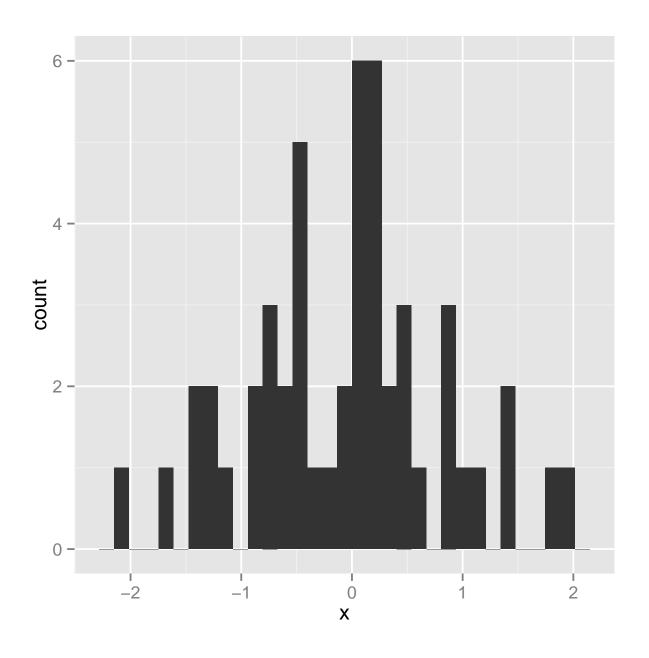
library(ggplot2)
qplot(x, geom = "histogram")

## stat_bin: binwidth defaulted to range/30. Use 'binwidth = x' to adjust this.</pre>
```



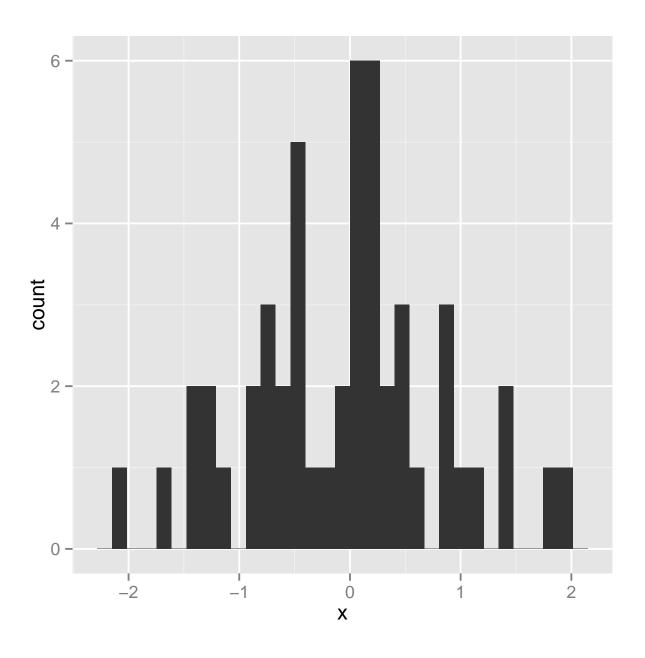
 $Knitr\ options:\ message = FALSE,\ warning = FALSE$

```
set.seed(1121)
x <- rnorm(50)
library(ggplot2)
qplot(x, geom = "histogram")</pre>
```

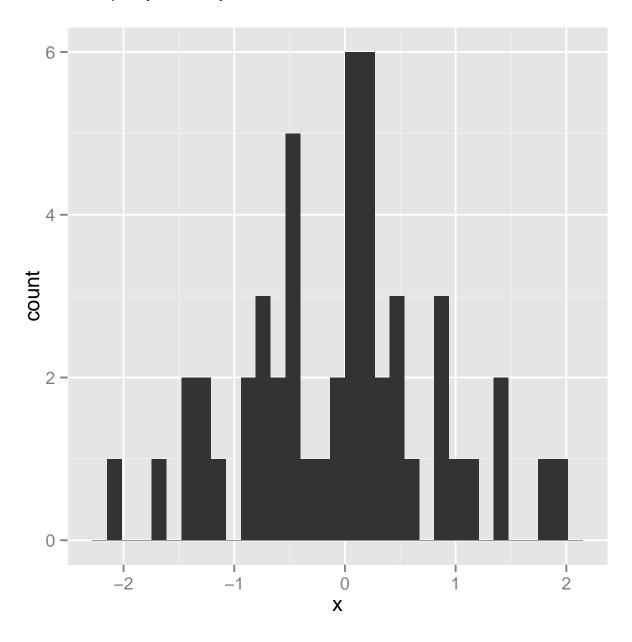


Knitr options: message=FALSE, tidy=FALSE Note that the spacing of the code is different than on the previous page.

```
set.seed(1121)
x<-rnorm(50)
library(ggplot2)
qplot(x,geom="histogram")</pre>
```

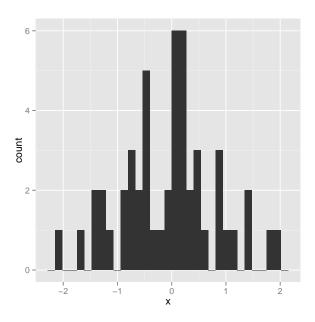


Knitr options: depends on='pretty-histogram1', message=FALSE, echo=FALSE I'm using the previously generated x, not re-generating it. Note that now only the plot shows up.

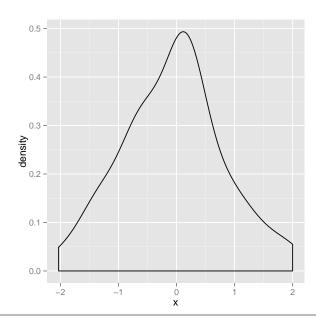


 $Knitr\ options:\ depends on = 'pretty-histogram1',\ message = FALSE,\ out.width = '.49 \setminus textwidth' \ and the state of t$

```
qplot(x, geom = "histogram")
```



qplot(x, geom = "density")

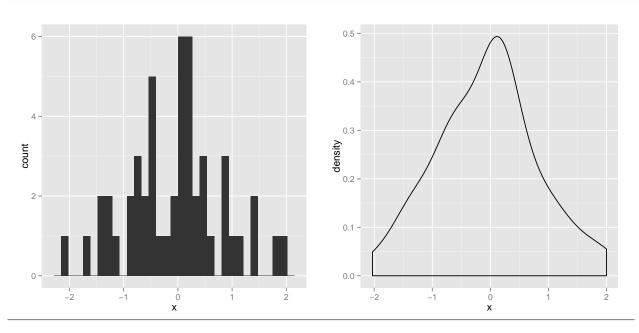


 $Knitr\ options:\ depends on = 'pretty-histogram1',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.show = 'hide' = '.$

```
qplot(x, geom = "histogram")
qplot(x, geom = "density")
```

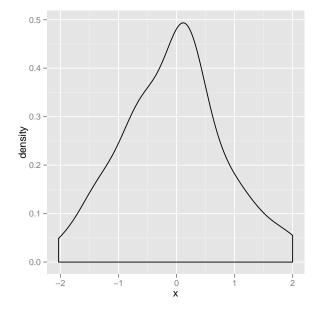
 $Knitr\ options:\ depends on = 'pretty-histogram1',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.show = 'hold' = '.$

```
qplot(x, geom = "histogram")
qplot(x, geom = "density")
```



 $Knitr\ options:\ depends on = 'pretty-histogram1',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.keep = 'last',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.keep = 'last',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.keep = 'last',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.keep = 'last',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.keep = 'last',\ message = FALSE,\ out.width = '.49 \setminus textwidth',\ fig.keep = 'last',\ message = FALSE,\ fig.keep = 'last',\ message = FALS$

```
qplot(x, geom = "histogram")
qplot(x, geom = "density")
```



Including pictures directly: code chunk options - include=FALSE

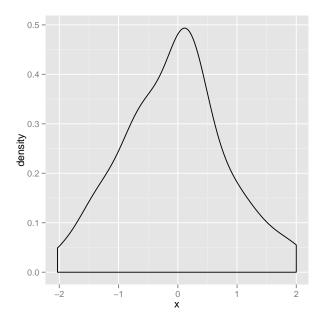


Figure 1: What a nice figure

Do this by using

\begin{figure}[h!]
\centering
\includegraphics[keepaspectratio=TRUE,width=.5\textwidth]{figure/lots-of-plots5}
\caption{What a nice figure}
\end{figure}