

FirstRScript.R

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```
# Explain what the heck this script is. What is it doing? What project is it associated with? Give as m  
  
# 6 September 2018  
# SFR
```

```
# Preliminaries  
library(ggplot2)  
set.seed(100)  
library(TeachingDemos)  
char2seed("this function creates a seed based on a phrase. Heckin cool!", set = FALSE)
```

```
## Warning in char2seed("this function creates a seed based on a phrase.  
## Heckin cool!", : probable complete loss of accuracy in modulus
```

```
## [1] 0
```

```
#char2seed("green tea", set = FALSE)
```

```
# Global variables  
nRep <- 10000 # number of values
```

```
# Create or read in data  
ranVar1 <- rnorm(nRep) #create nRep random variables from the standard normal distribution
```

```
#ranVar1 <- rnorm(n=nRep, mean=10, sd=3) #Can explicitly set parameters as well  
#print(ranVar1) #Print is fine as long as the thing your printing isnt huge
```

```
# Peek at the data  
head(ranVar1) # prints first six
```

```
## [1] -0.50219235  0.13153117 -0.07891709  0.88678481  0.11697127  0.31863009
```

```
tail(ranVar1) # prints last six values
```

```
## [1]  0.05280582 -1.18842617  0.36964111 -0.60814024  1.21073784  1.84563797
```

```
length(ranVar1)
```

```
## [1] 10000
```

```
str(ranVar1) # structure of the variable. Like type and stuff
```

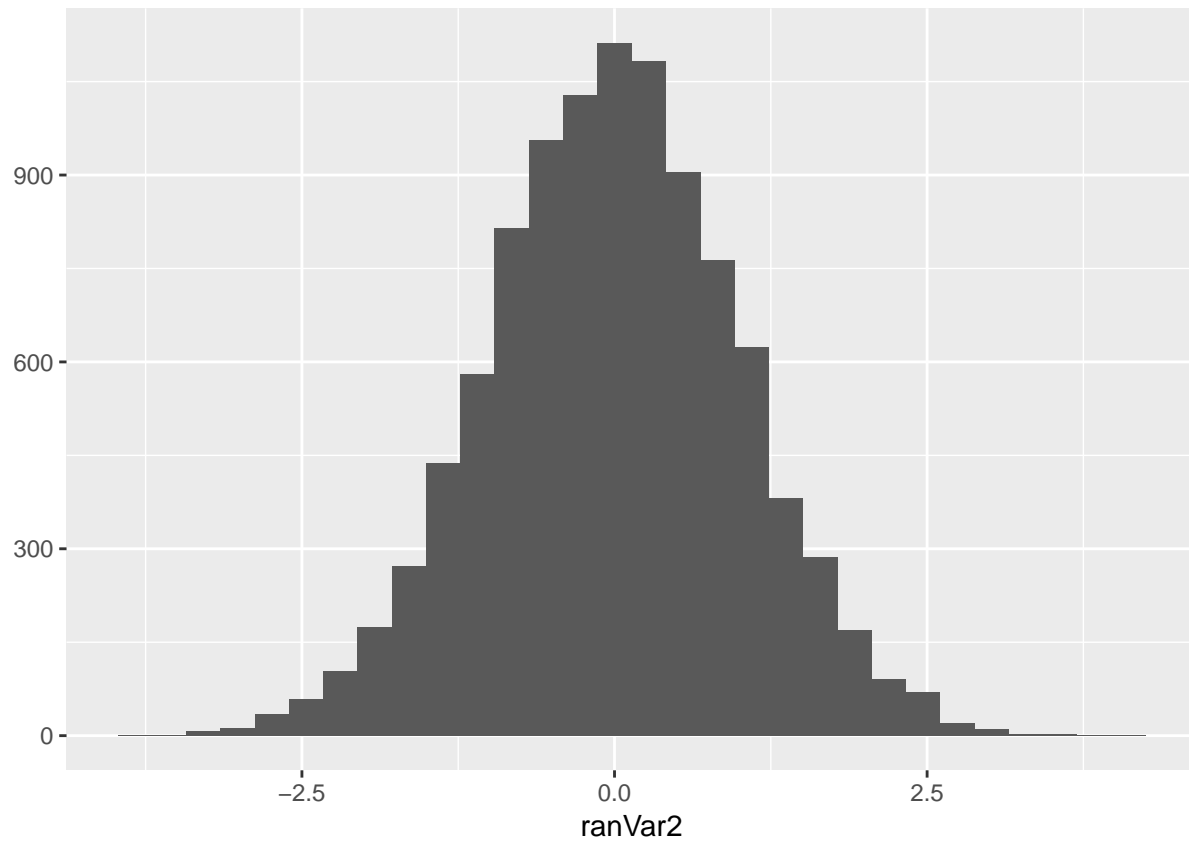
```
##  num [1:10000] -0.5022 0.1315 -0.0789 0.8868 0.117 ...
```

```
# Might also want to use the console to peek at data
```

```
# Create second variable  
ranVar2 <- rnorm(nRep)
```

```
#Visualize data  
qplot(x=ranVar2)
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



```
qplot(x=ranVar2,  
      color = I("black"),  
      fill = I("goldenrod"))
```

```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

