IA Data by Schools (4) in AF Network

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Read in the data

```
UP <- read.csv(file="/Users/bcarancibia/DATA_eliza/UP.csv", head=TRUE, sep=",")
AMISTAD <- read.csv(file="/Users/bcarancibia/DATA_eliza/AMISTAD.csv",head=TRUE,sep=",")
HARTFORD <- read.csv(file="/Users/bcarancibia/DATA_eliza/HARTFORD.csv",head=TRUE,sep=",")
BHS <- read.csv(file="/Users/bcarancibia/DATA_eliza/BHS.csv",head=TRUE,sep=",")
```

Take a look at the summary information

```
summary(UP)
```

```
##      Scholar      Raw.Score..out.of.79.   Percentage
##  Min.   : 1.0   Min.   :10.0           Min.   :12.66
##  1st Qu.:21.5   1st Qu.:33.5           1st Qu.:42.41
##  Median :42.0   Median :49.0           Median :62.03
##  Mean   :42.0   Mean   :45.9           Mean   :58.11
##  3rd Qu.:62.5   3rd Qu.:58.0           3rd Qu.:73.42
##  Max.   :83.0   Max.   :72.0           Max.   :91.14
```

```
summary(AMISTAD)
```

```
##      Scholar       Raw.Score..out.of.79.   Percentage
##  Min.   :  1.0   Min.   : 8.0           Min.   :10.13
##  1st Qu.: 33.5   1st Qu.:38.5           1st Qu.:48.73
##  Median : 66.0   Median :54.0           Median :68.35
##  Mean   : 66.0   Mean   :50.0           Mean   :63.29
##  3rd Qu.: 98.5   3rd Qu.:63.0           3rd Qu.:79.75
##  Max.   :131.0   Max.   :76.0           Max.   :96.20
```

```
summary(HARTFORD)
```

```
##      Scholar      Raw.Score..out.of.79.   Percentage
##  Min.   : 1.0   Min.   : 9.00          Min.   :11.39
##  1st Qu.:12.5   1st Qu.:34.50          1st Qu.:43.67
##  Median :24.0   Median :47.00          Median :59.49
##  Mean   :24.0   Mean   :47.36          Mean   :60.41
##  3rd Qu.:35.5   3rd Qu.:63.00          3rd Qu.:80.38
##  Max.   :47.0   Max.   :77.00          Max.   :97.47
```

```
summary(BHS)
```

```
##      Scholar       Raw.Score..out.of.79.   Percentage
##  Min.   :  1.00   Min.   :16.00          Min.   :20.25
##  1st Qu.: 26.25   1st Qu.:41.00          1st Qu.:51.90
```

```
##  Median : 51.50    Median :56.00       Median :70.89
##  Mean   : 51.50    Mean   :52.37       Mean   :66.29
##  3rd Qu.: 76.75    3rd Qu.:64.75       3rd Qu.:81.96
##  Max.   :102.00    Max.   :74.00       Max.   :93.67
```

The First column means nothing since it just a list of students.

Time to graph it

```
require(ggplot2)
```

```
## Loading required package: ggplot2
```

```
up_fig1 <- ggplot(UP, aes(x=Percentage)) + geom_histogram(aes(fill = ..count..))
amistad_fig1 <- ggplot(AMISTAD, aes(x=Percentage)) + geom_histogram(aes(fill = ..count..))
hartford_fig1 <- ggplot(HARTFORD, aes(x=Percentage)) + geom_histogram(aes(fill = ..count..))
bhs_fig1 <- ggplot(BHS, aes(x=Percentage)) + geom_histogram(aes(fill = ..count..))

up_fig1
```
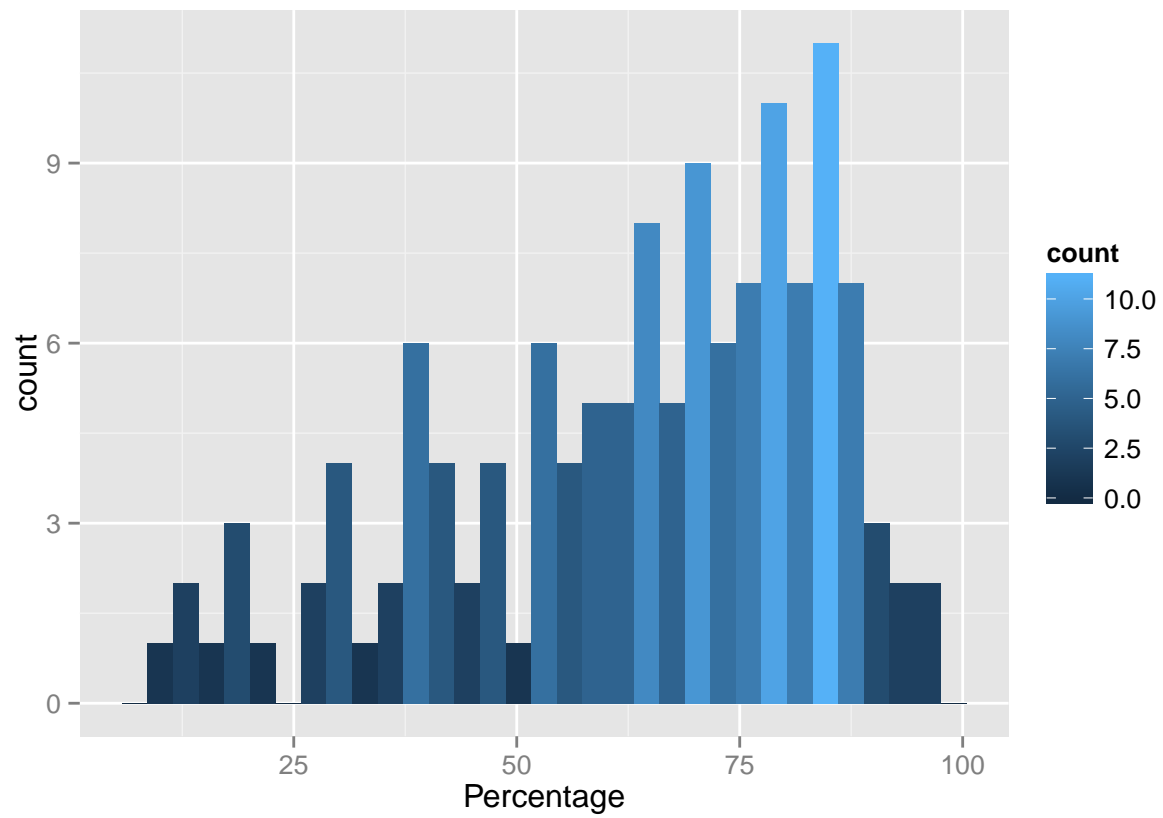
```
## stat_bin: binwidth defaulted to range/30. Use 'binwidth = x' to adjust this.
```
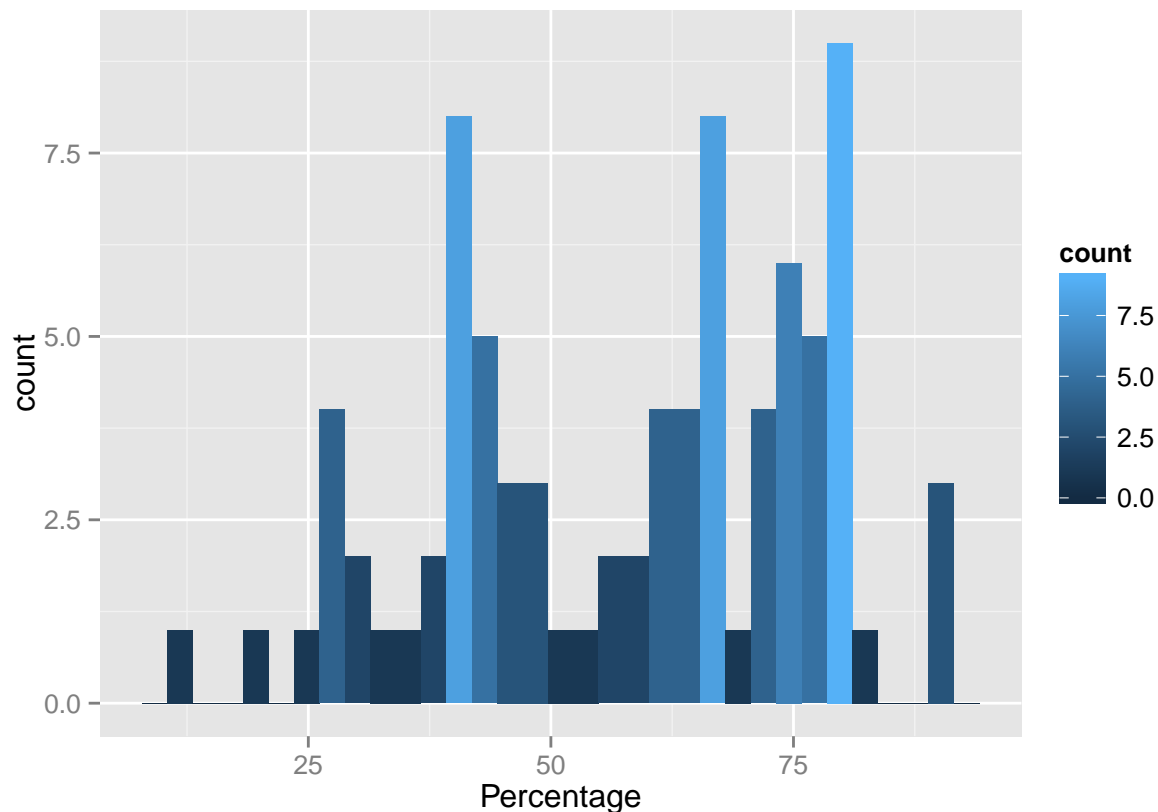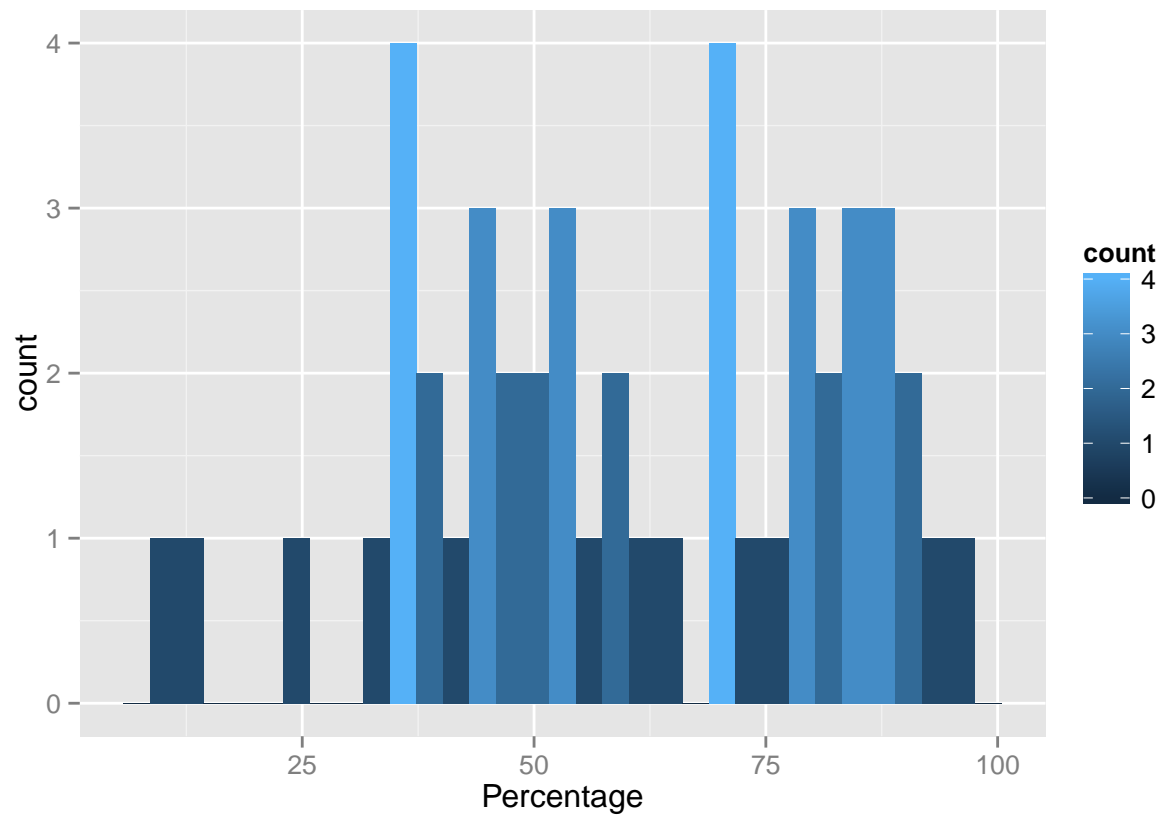


```
amistad_fig1
```

```
## stat_bin: binwidth defaulted to range/30. Use 'binwidth = x' to adjust this.
```
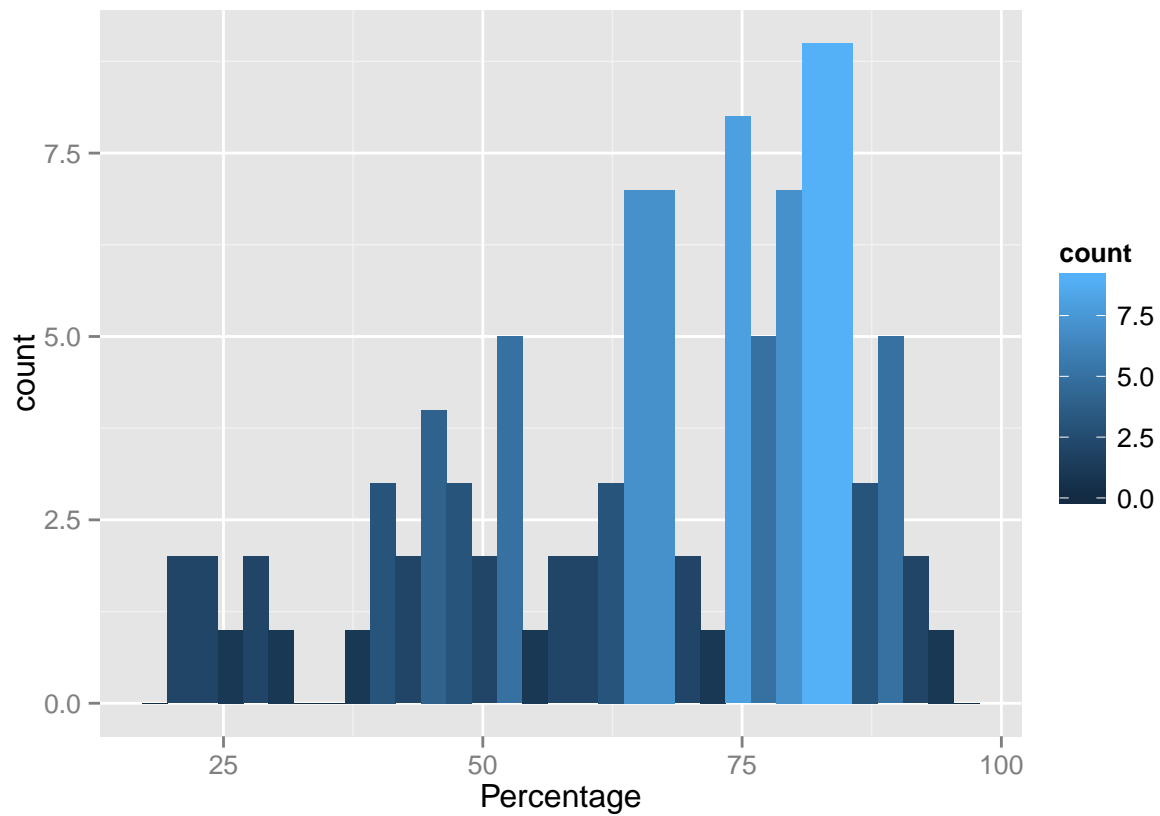
hartford_fig1

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

bhs_fig1
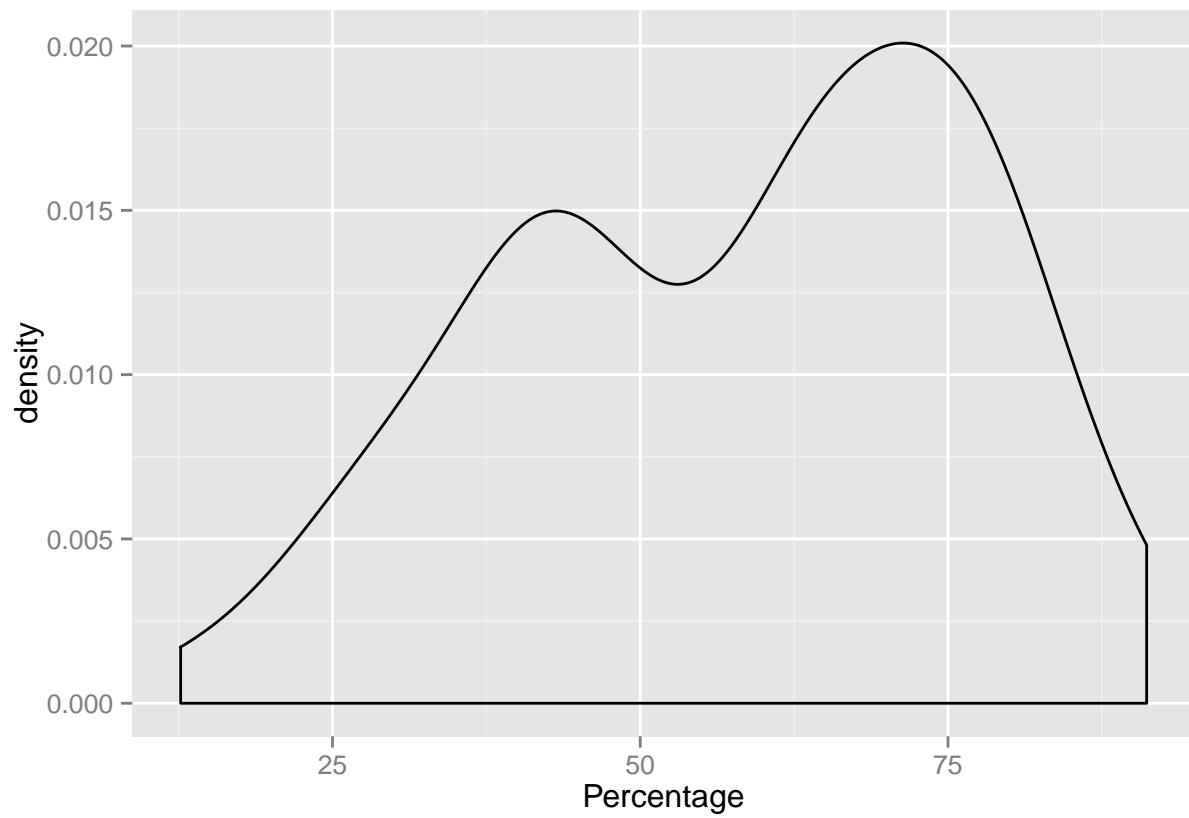
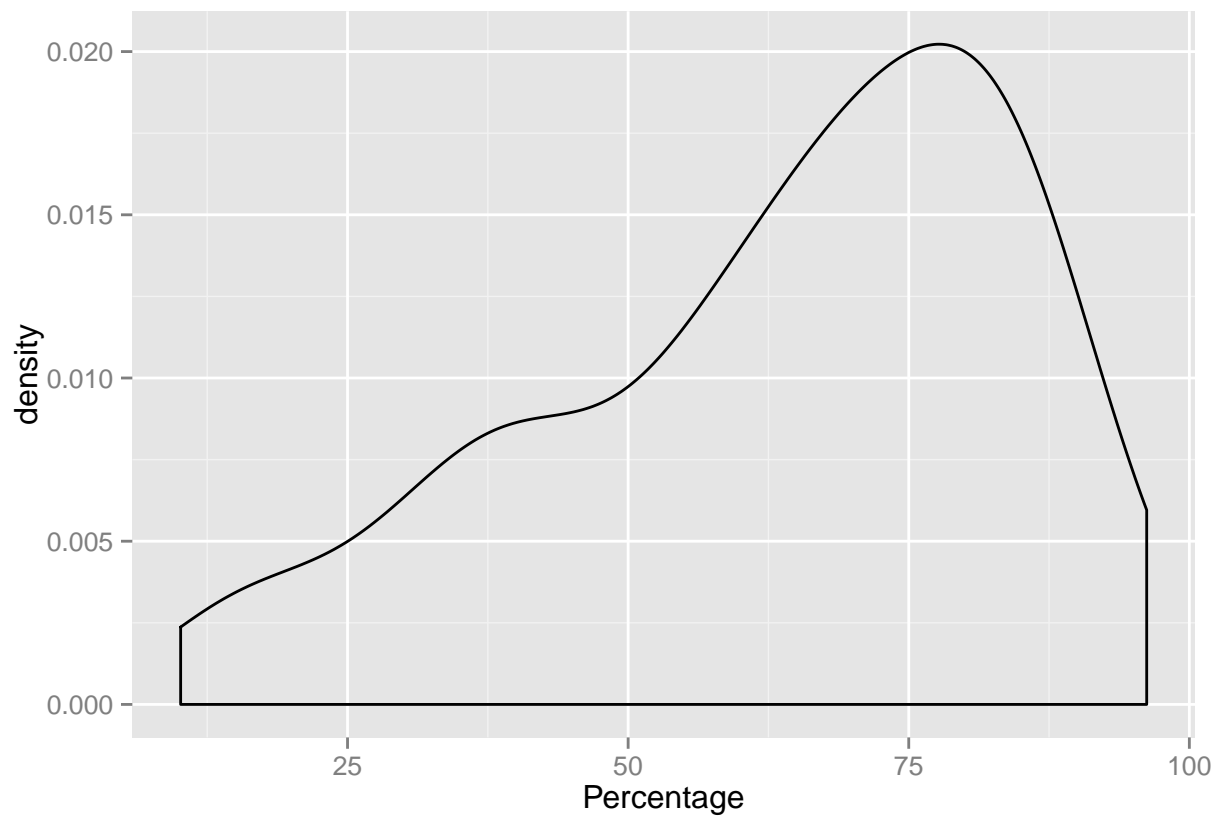## stat_bin: binwidth defaulted to range/30. Use 'binwidth = x' to adjust this.

You can see a lot from the data, what is most interesting is if you look at the actual shape of the curves

```
up_fig2 <- ggplot(UP, aes(x=Percentage)) + geom_density()
amistad_fig2 <- ggplot(AMISTAD, aes(x=Percentage)) + geom_density()
hartford_fig2 <- ggplot(HARTFORD, aes(x=Percentage)) + geom_density()
bhs_fig2 <- ggplot(BHS, aes(x=Percentage)) + geom_density()

up_fig2
```
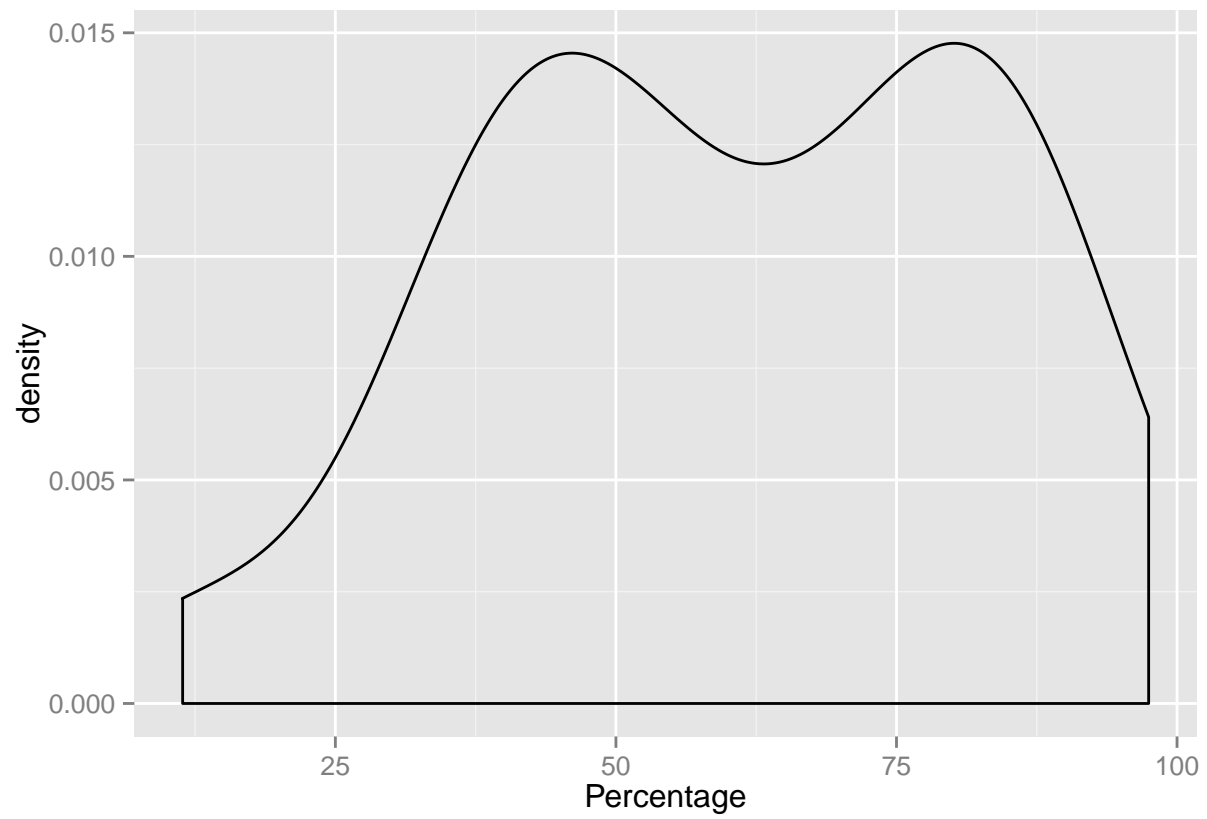
amistad_fig2