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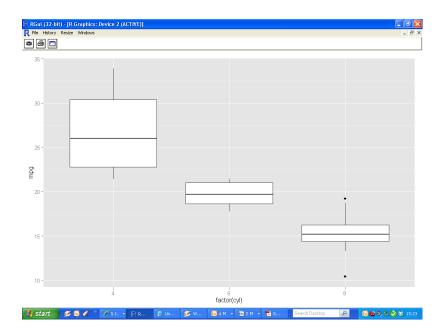
Boxplots

```
p <- ggplot(mtcars, aes(factor(cyl), mpg))

p + geom_boxplot()

qplot(factor(cyl), mpg, data = mtcars, geom = "boxplot")

p + geom_boxplot(aes(fill = cyl))</pre>
```

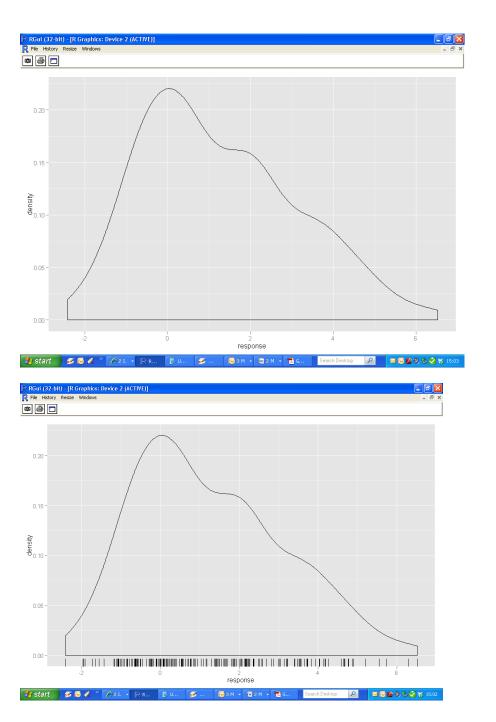




Density Functions

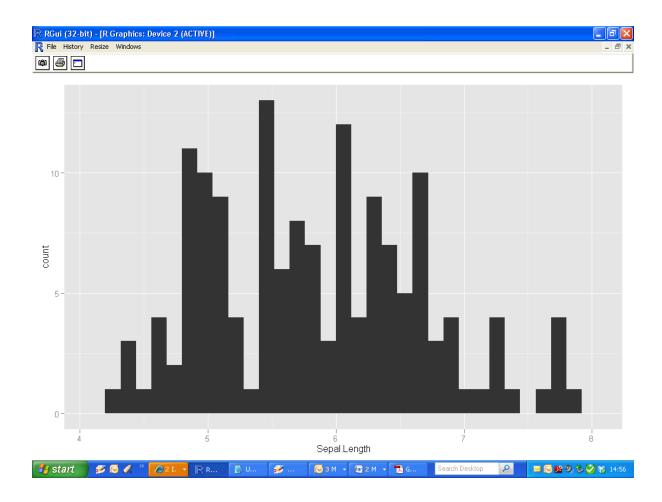
```
response <- c(rnorm(100), rnorm(100, mean=2, sd=2))
mygroup <- factor(c(rep('group a', 100), rep('group b', 100)))
d <- data.frame(response, mygroup)
rm(response, mygroup)

g <- ggplot(d, aes(x=response)) + geom_density()
g
g <- ggplot(d, aes(x=response)) + geom_density() + geom_rug()
g</pre>
```

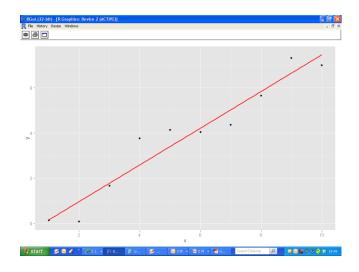


Histograms

```
qplot(Sepal.Length, data=iris, geom="histogram")
# Warning Message:
# stat_bin: binwidth defaulted to range/30.
# Use 'binwidth = x' to adjust this.
```

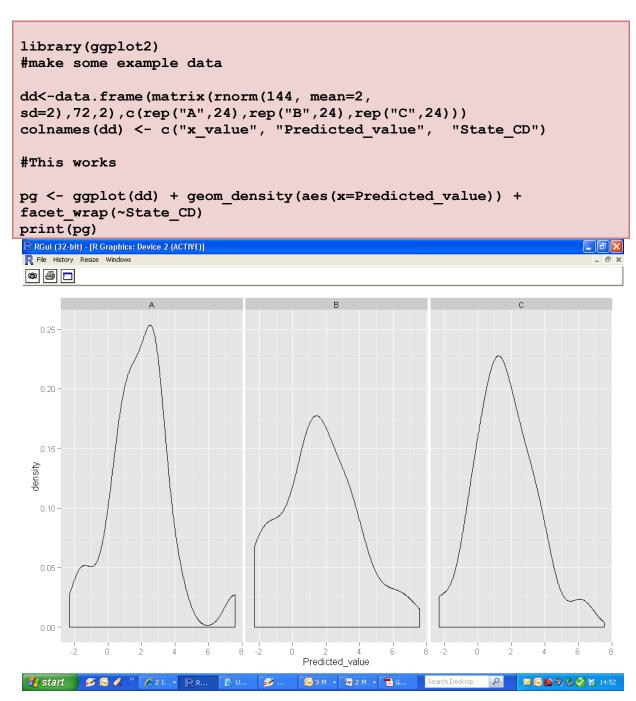


Linear regression Example

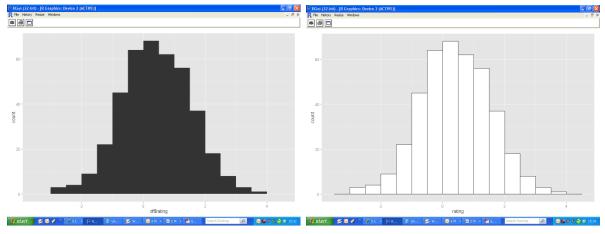


Stat_function

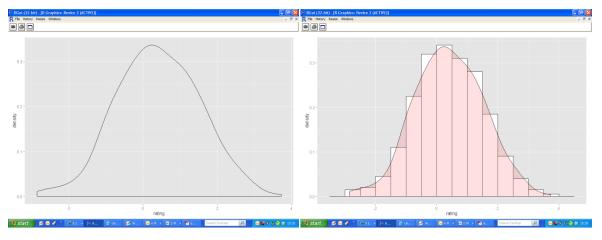
stat_function is designed to overlay the same function in every panel. (There's no obvious way tomatch up the parameters of the function with the different panels).



Plotting distributions



```
# Draw with black outline, white fill
ggplot(df, aes(x=rating)) + geom_histogram(binwidth=.5, colour="black",
fill="white")
```



Histogram and density plots with multiple groups

```
# Density plots with semi-transparent fill
ggplot(df, aes(x=rating, fill=cond)) + geom_density(alpha=.3)
```

