Dependance of Fuel Efficiency on Transmission Type

Peter Thompson

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Executive Summary

stuff

```
quick summary
library(ggplot2)
str(mtcars)
## 'data.frame': 32 obs. of 11 variables:
   $ mpg : num 21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
   $ cyl : num 6646868446 ...
## $ disp: num 160 160 108 258 360 ...
## $ hp : num 110 110 93 110 175 105 245 62 95 123 ...
## $ drat: num 3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
## $ wt : num 2.62 2.88 2.32 3.21 3.44 ...
## $ qsec: num 16.5 17 18.6 19.4 17 ...
## $ vs : num 0 0 1 1 0 1 0 1 1 1 ...
## $ am : num 1 1 1 0 0 0 0 0 0 ...
## $ gear: num 4 4 4 3 3 3 3 4 4 4 ...
## $ carb: num 4 4 1 1 2 1 4 2 2 4 ...
h<-ggplot(data=mtcars,aes(y=mpg,x=wt,colour=factor(am),pch=factor(cyl))) + geom_point(size=
print(h)
mainly interested in mpg vs am.
consider mpg vs am mpg vs am + disp mpg vs am + disp + cyl mpg vs am + 
disp + cyl + wt
fit<-lm(data=mtcars,mpg ~ factor(am))</pre>
fit2<-lm(data=mtcars,mpg ~ factor(am) + disp</pre>
```

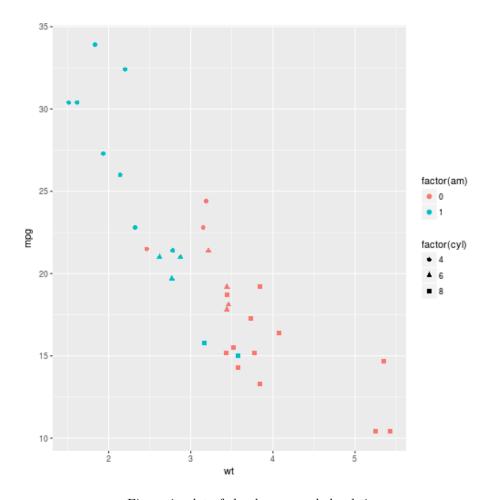


Figure 1: plot of chunk unnamed-chunk-1

```
fit3<-lm(data=mtcars,mpg ~ factor(am) + disp + wt )</pre>
```

Appendix