gg-plot

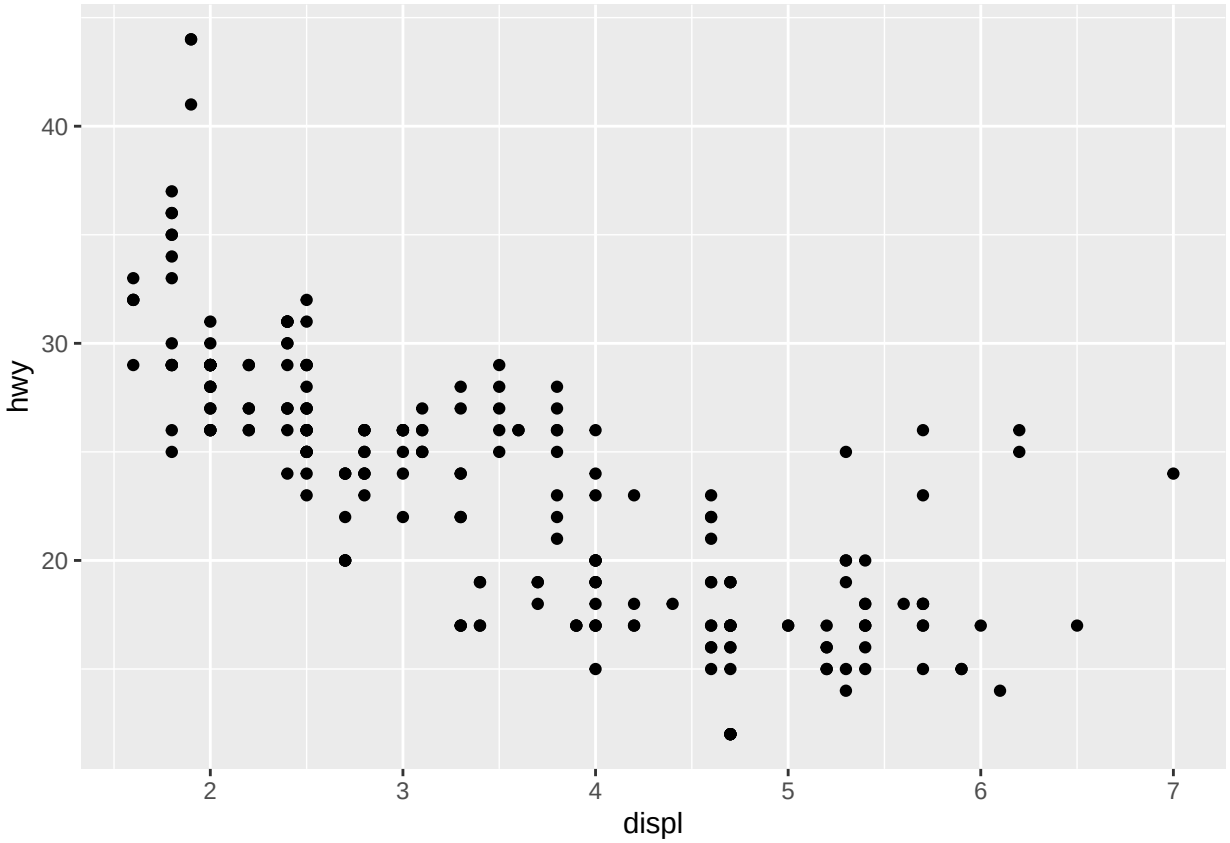
17F-8002

11/16/2021

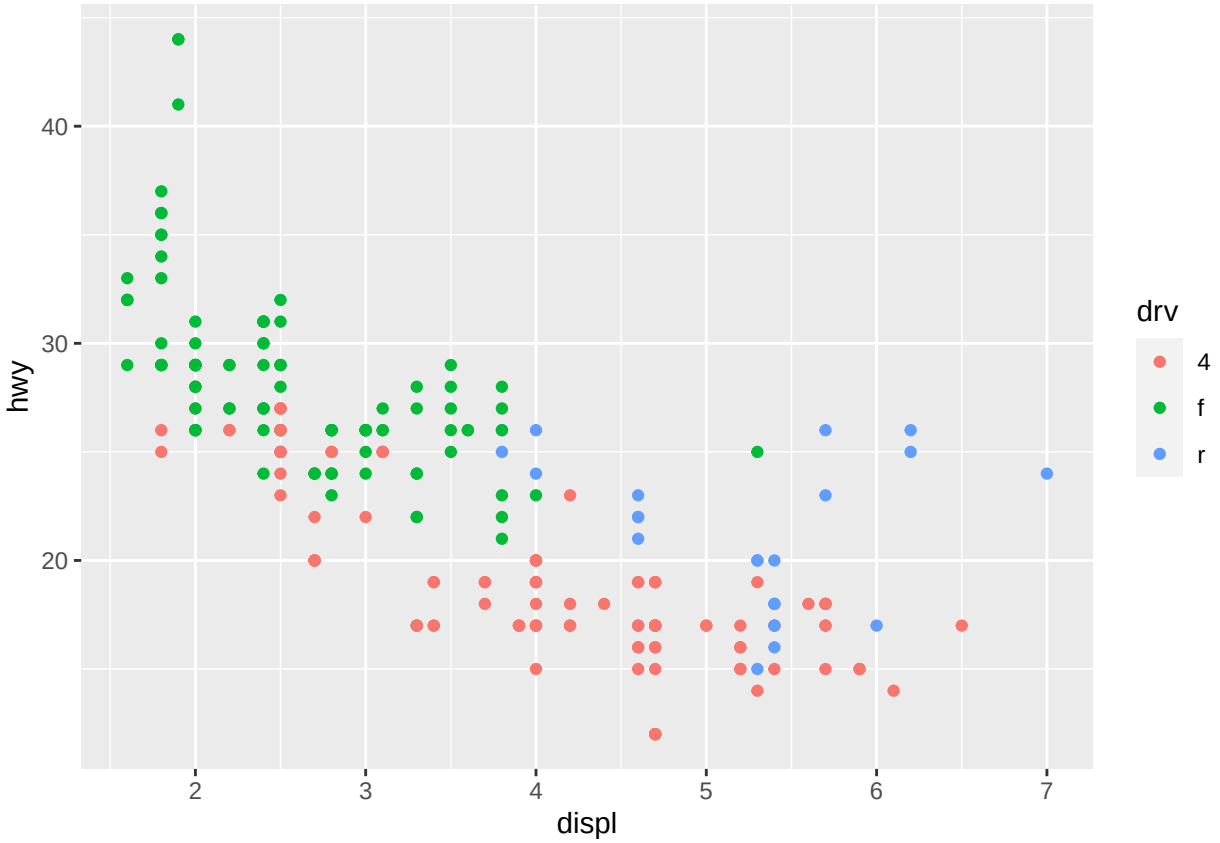
```
 library(ggplot2)
str(mpg)
```

```
## tibble [234 x 11] (S3: tbl_df/tbl/data.frame)
##  $ manufacturer: chr [1:234] "audi" "audi" "audi" "audi" ...
##  $ model       : chr [1:234] "a4" "a4" "a4" "a4" ...
##  $ displ       : num [1:234] 1.8 1.8 2 2 2.8 2.8 3.1 1.8 1.8 2 ...
##  $ year        : int [1:234] 1999 1999 2008 2008 1999 1999 2008 1999 1999 2008 ...
##  $ cyl         : int [1:234] 4 4 4 4 6 6 6 4 4 4 ...
##  $ trans       : chr [1:234] "auto(l5)" "manual(m5)" "manual(m6)" "auto(av)" ...
##  $ drv         : chr [1:234] "f" "f" "f" "f" ...
##  $ cty         : int [1:234] 18 21 20 21 16 18 18 18 16 20 ...
##  $ hwy         : int [1:234] 29 29 31 30 26 26 27 26 25 28 ...
##  $ fl          : chr [1:234] "p" "p" "p" "p" ...
##  $ class       : chr [1:234] "compact" "compact" "compact" "compact" ...
```

```
 qplot(displ , hwy ,  data= mpg)
```

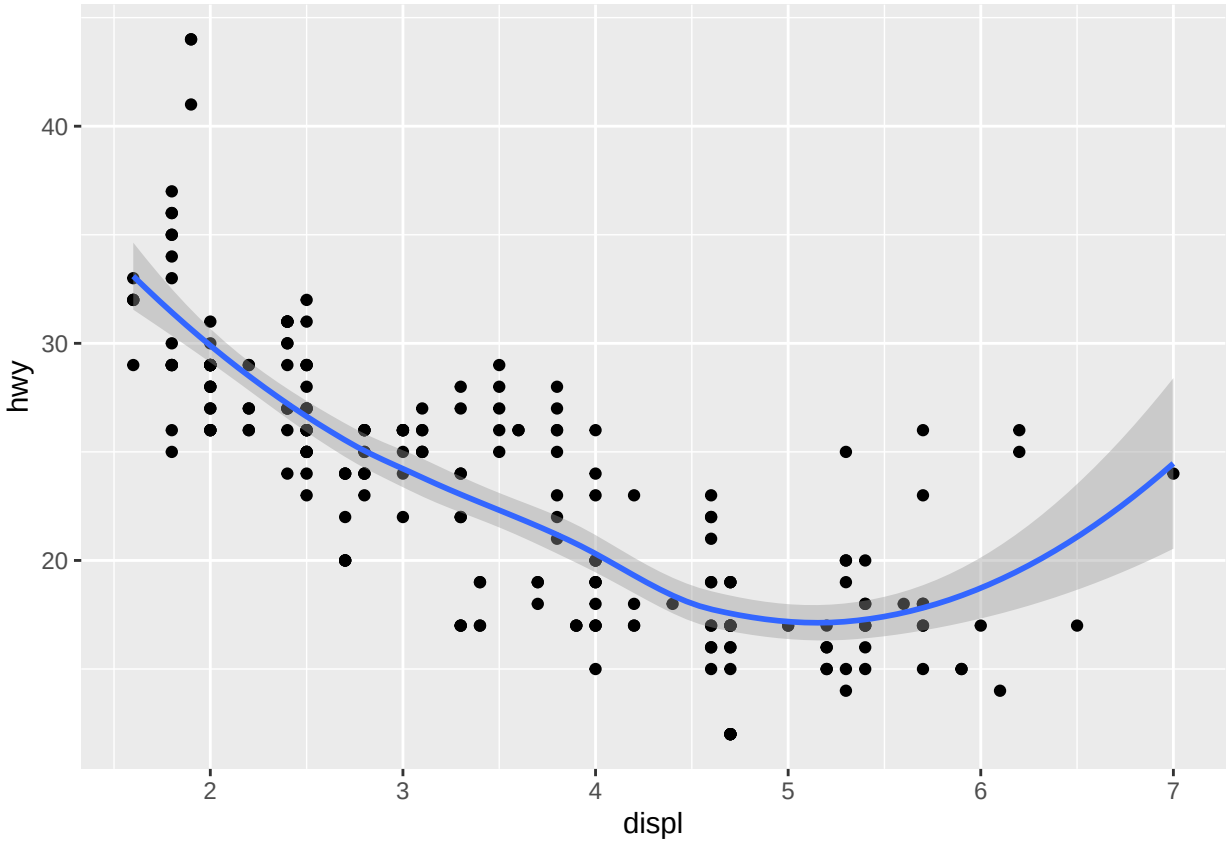



```
qplot(displ, hwy, data = mpg, color = drv)
```



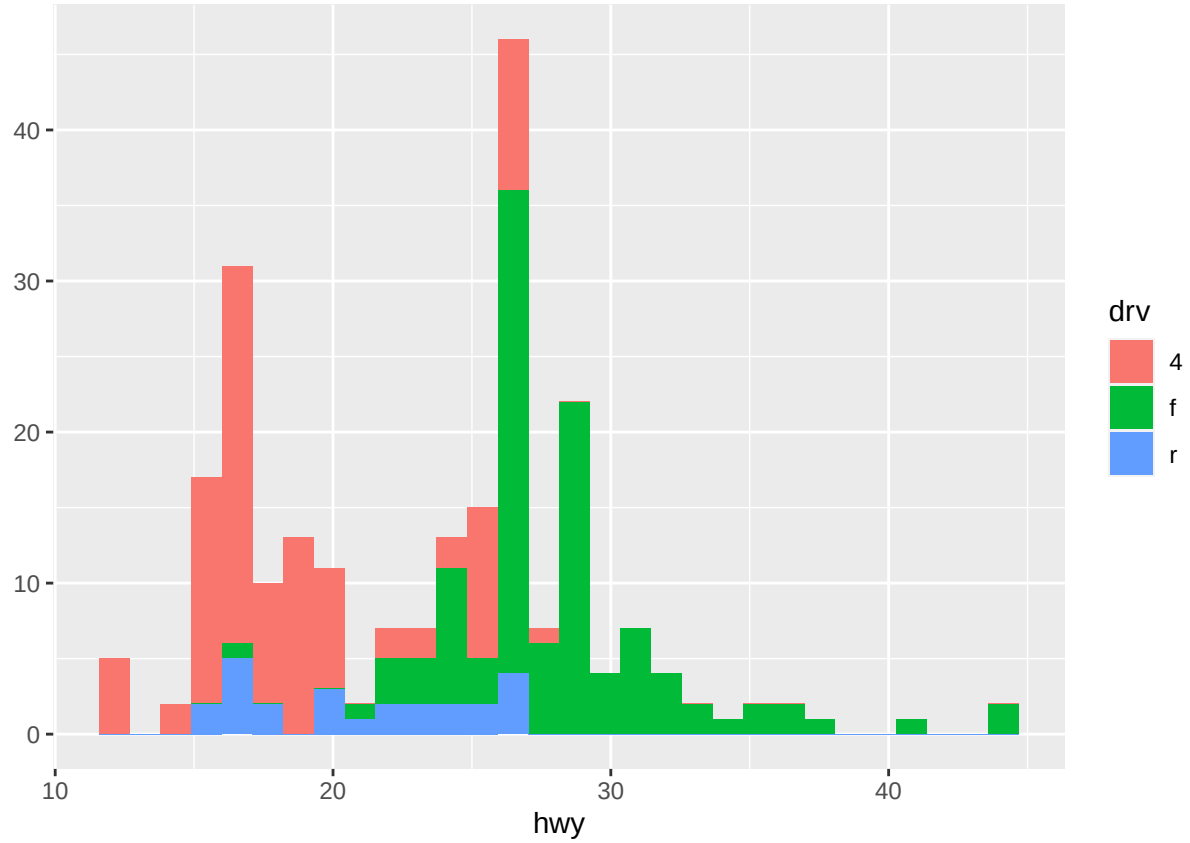

```
qplot(displ, hwy, data = mpg, geom = c("point", "smooth"))
```

```
## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```



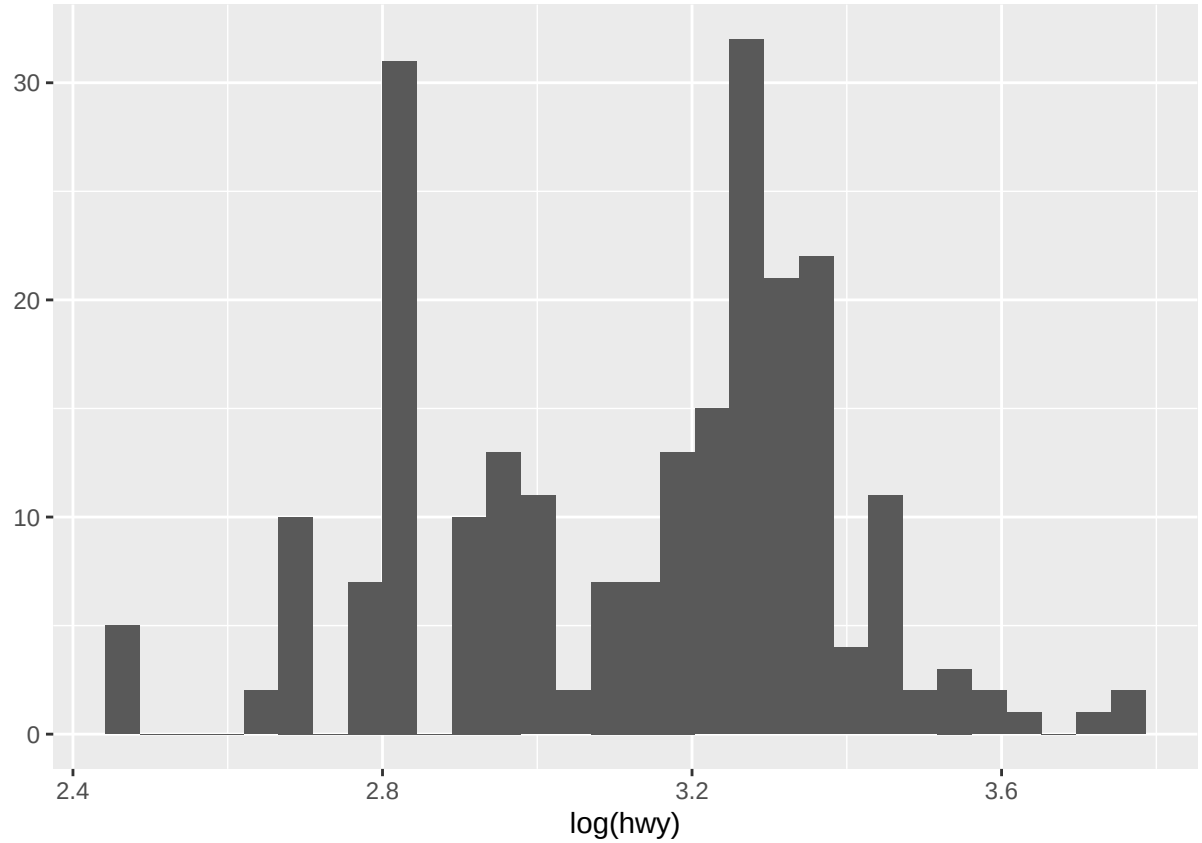

```
qplot(hwy, data = mpg, fill = drv)
```

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

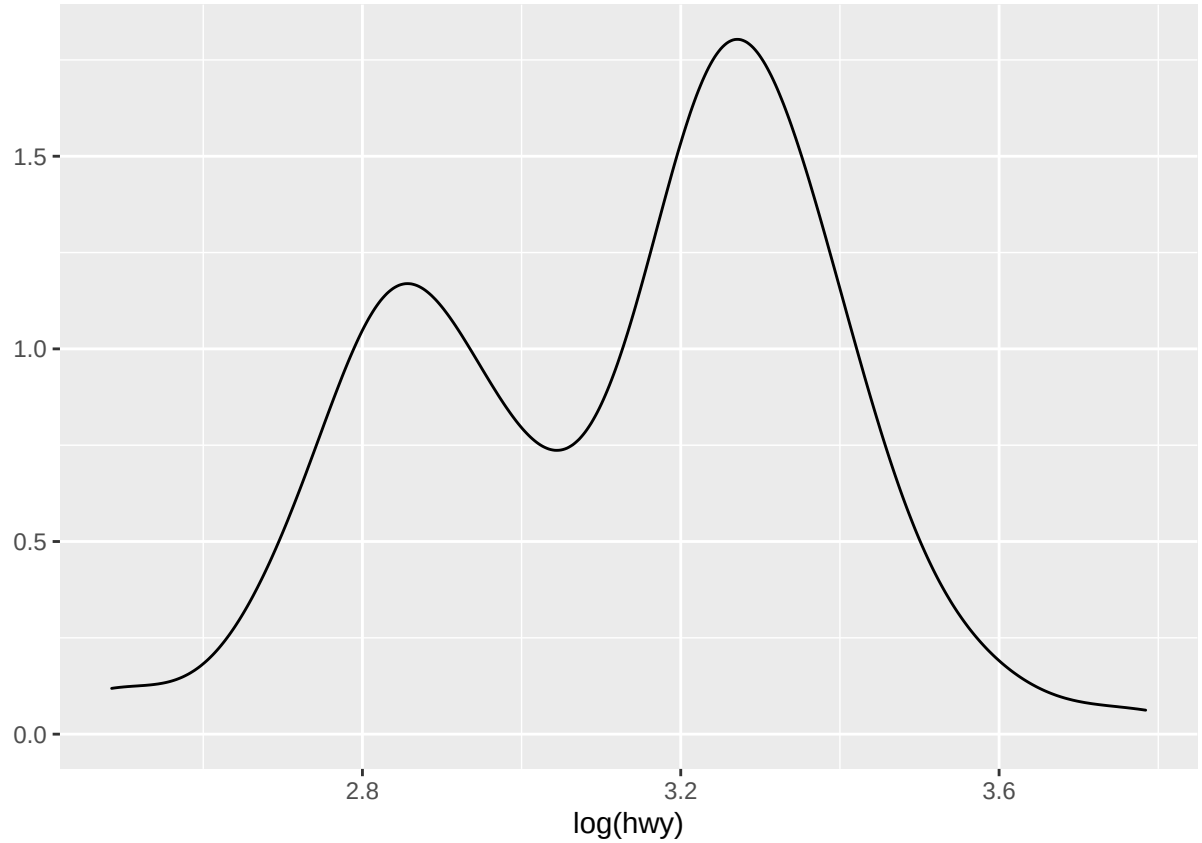



```
qplot(log(hwy), data    =   mpg)
```

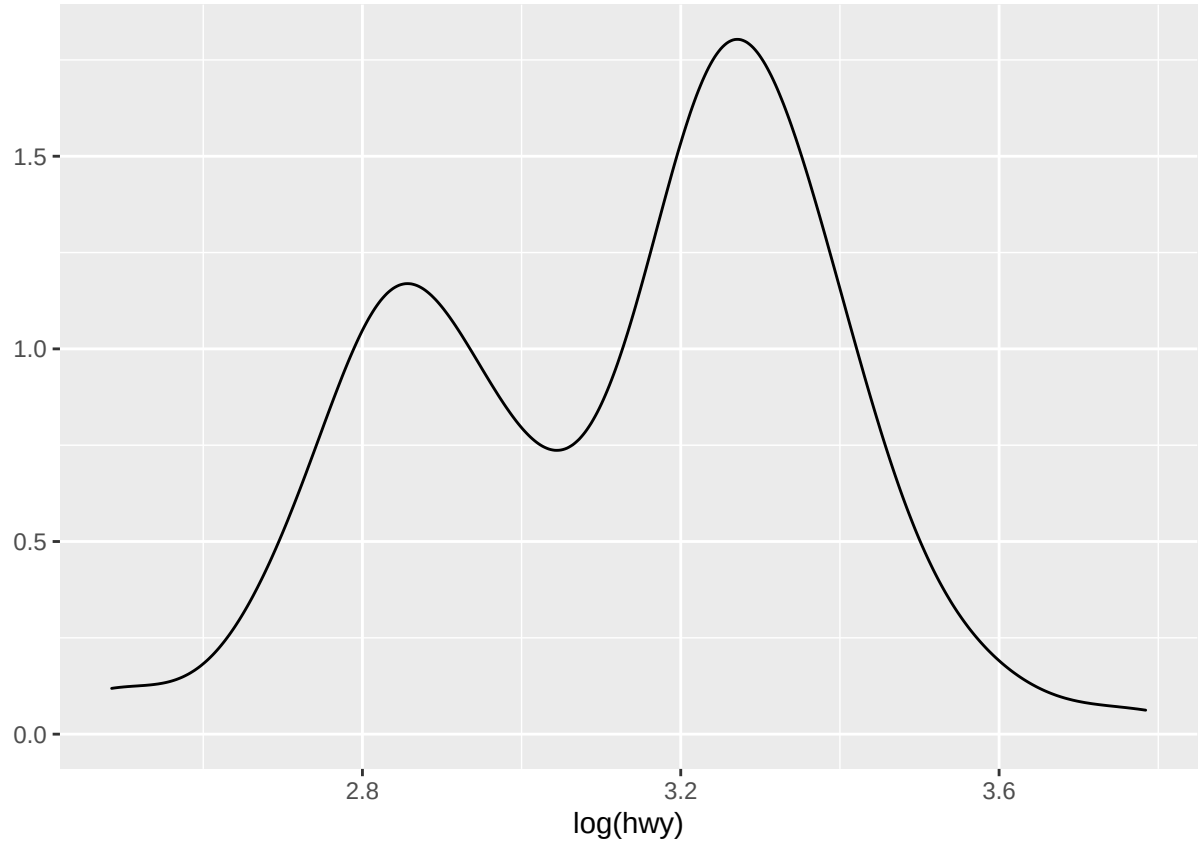
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```




```
qplot(log(hwy), data = mpg , geom = "density")
```




```
qplot(log(hwy), data = mpg , geom = "density")
```


1.5
1.0
0.5
0.0
2.8
3.2
3.6
log(hwy)