

Statistic Exercise R Mark Down

Hyeonho Lee

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Exercise

Data import

```
Auto <- ISLR::Auto
```

```
##   mpg cylinders displacement horsepower weight acceleration year origin
## 1  18         8          307         130   3504          12.0    70      1
## 2  15         8          350         165   3693          11.5    70      1
## 3  18         8          318         150   3436          11.0    70      1
## 4  16         8          304         150   3433          12.0    70      1
## 5  17         8          302         140   3449          10.5    70      1
## 6  15         8          429         198   4341          10.0    70      1
##                                     name
## 1 chevrolet chevelle malibu
## 2      buick skylark 320
## 3    plymouth satellite
## 4      amc rebel sst
## 5      ford torino
## 6      ford galaxie 500
```

Fit the model

```
lm.fit <- lm(mpg~horsepower, data=Auto)
```

Table

Table 1: Summary

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	39.9358610	0.7174987	55.65984	0
horsepower	-0.1578447	0.0064455	-24.48914	0

Plot

