

# Maternal Smoking and Infant Health I

*Michael Knopf, Lecture 2*

*September 16, 2014*

This write-up was created using the knitr package in R.

```
data = read.table("http://www.stat.berkeley.edu/~statlabs/data/babiesI.data",
                  header = TRUE);
nsmokers = data$bwt[data$smoke==0];
smokers = data$bwt[data$smoke==1];
```

*Summary of birthweights for babies born to non-smokers*

```
summary(nsmokers)
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	55	113	123	123	134	176

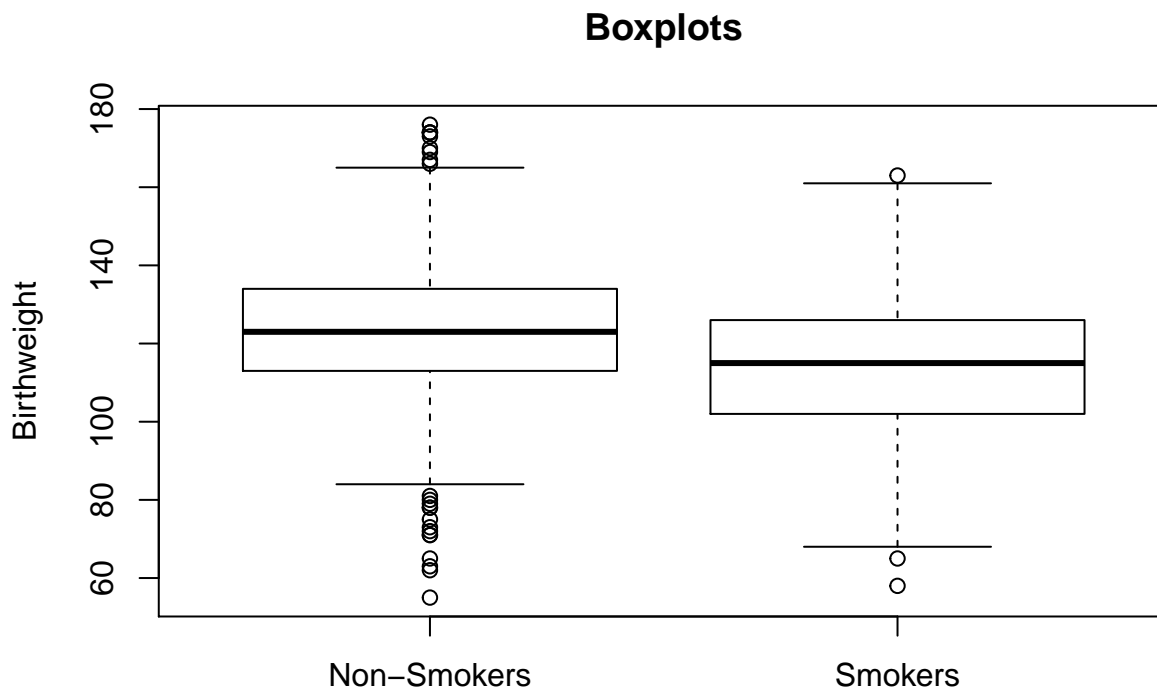
*Summary of birthweights for babies born to smokers*

```
summary(smokers)
```

##	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
##	58	102	115	114	126	163

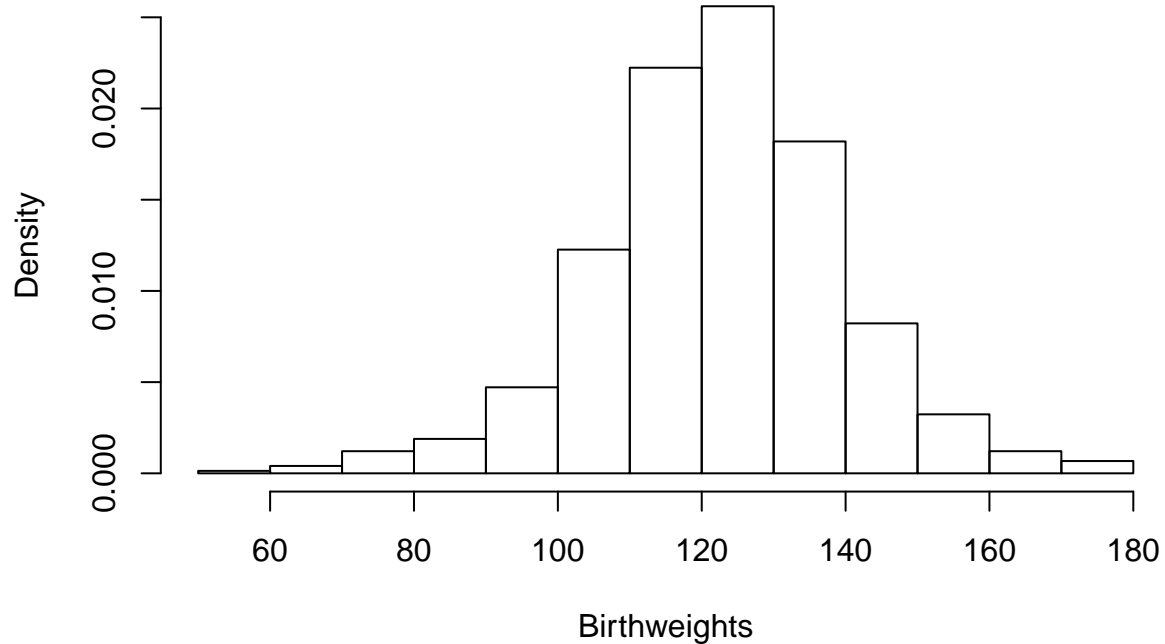
*Graphical comparisons of the two distributions*

```
boxplot(main = "Boxplots", nsmokers, smokers,
        ylab = "Birthweight", names = c("Non-Smokers", "Smokers"))
```



```
hist(nsmokers, freq = FALSE, main = "Histogram of Non-Smokers",
     xlab = "Birthweights", xlim = c(50,180), ylim = c(0,0.025))
```

### Histogram of Non-Smokers



```
hist(smokers, freq = FALSE, main = "Histogram of Smokers",
     xlab = "Birthweights", xlim = c(50,180), ylim = c(0,0.025))
```

### Histogram of Smokers

