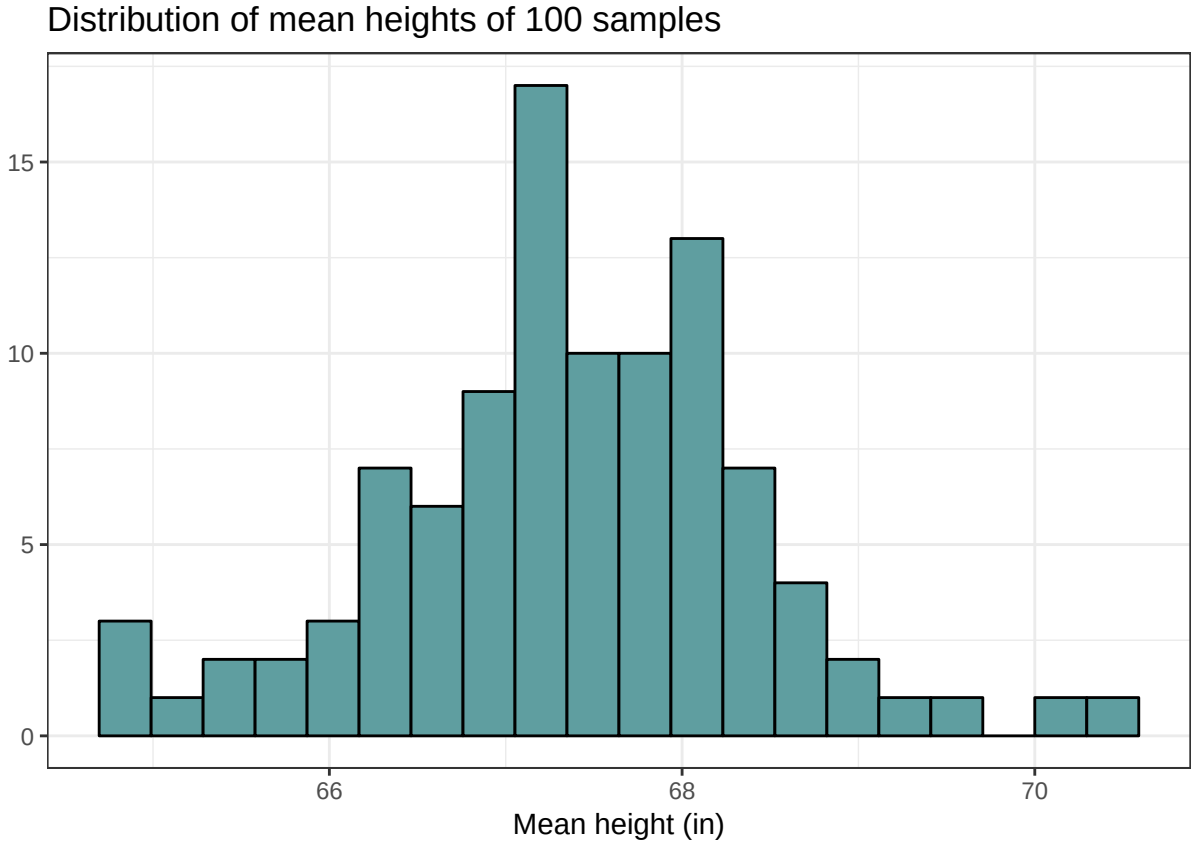
# Week 7 plots

*Stat 201: Statistics I*

*March 10, 2019*

```
metro.hgts <- read.csv("../../../Data/metro_hgts_sample_stats.csv")
```

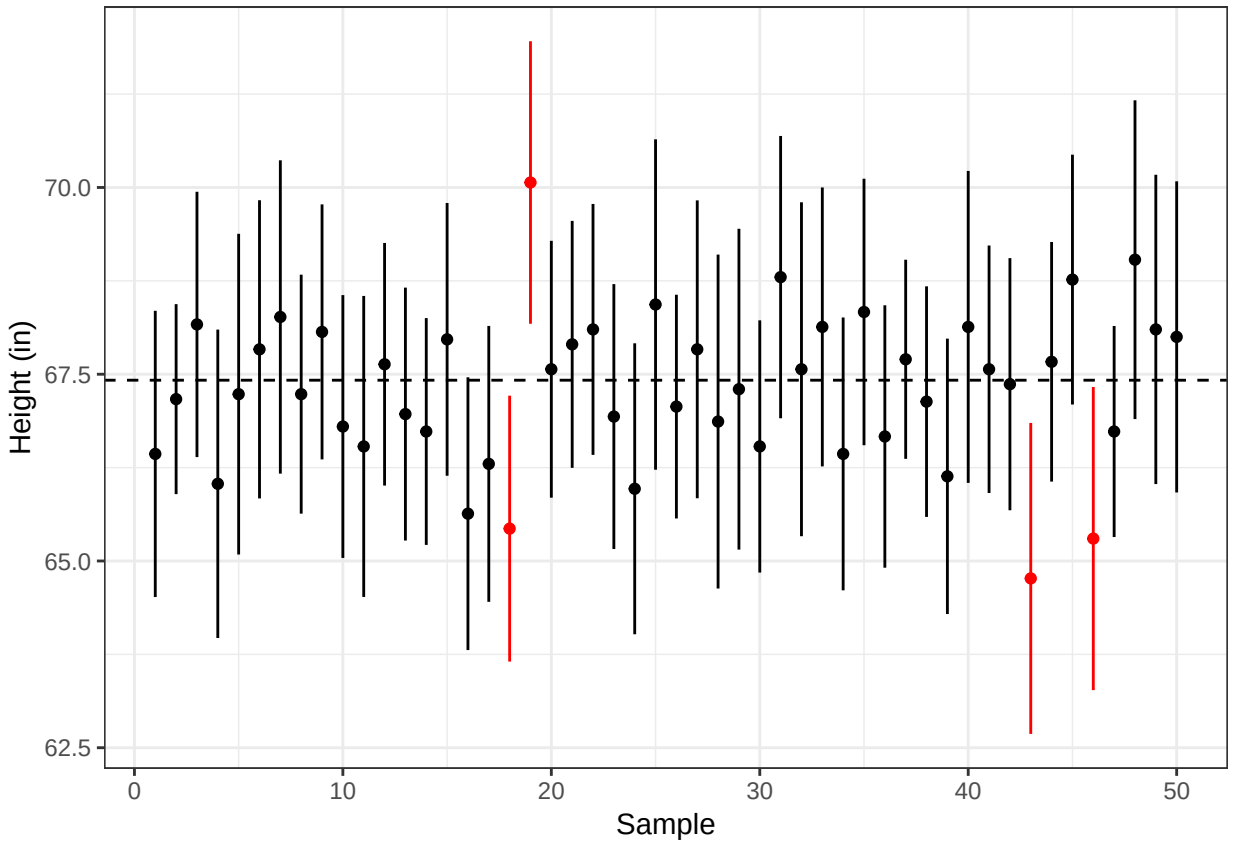
```
g <- ggplot(metro.hgts, aes(x=mean))
g <- g + geom_histogram(bins=20, fill="cadetblue", color="black")
#g <- g + geom_vline(xintercept = 67.42, color="red", linetype=2)
g <- g + theme_bw()
g <- g + labs(title="Distribution of mean heights of 100 samples",
              x="Mean height (in)", y="")

g
```




```
ggsave("../wk07_metro_hgts_hist.png", width=4.25, height=1.75)
```

```
g <- ggplot(metro.hgts[1:50,], aes(x=sample.num, y=mean, color=mean.in.ci))
g <- g + geom_hline(yintercept = 67.42, linetype=2)
g <- g + geom_point( show.legend = F)
g <- g + geom_linerange(aes(ymin=ci.low, ymax=ci.up), size=0.5, show.legend=F)
g <- g + theme_bw()
g <- g + scale_color_manual(values=c(no="red", yes="black"))
g <- g + labs(x="Sample", y="Height (in)")
```

```
g
```




```
ggsave("../wk07_metro_hgts_cis.png", width=5.5, height=3)
```