

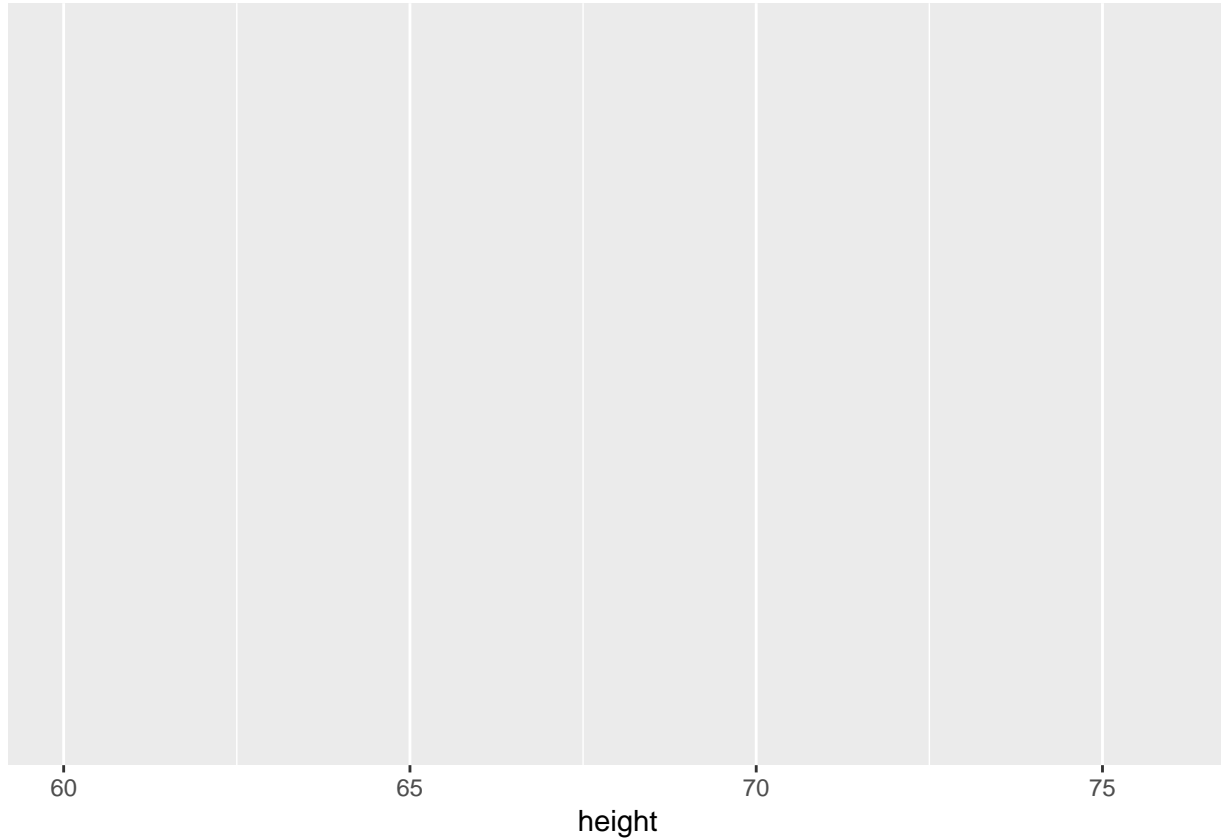
Introduction to Visualization in R

Pramod Duvvuri

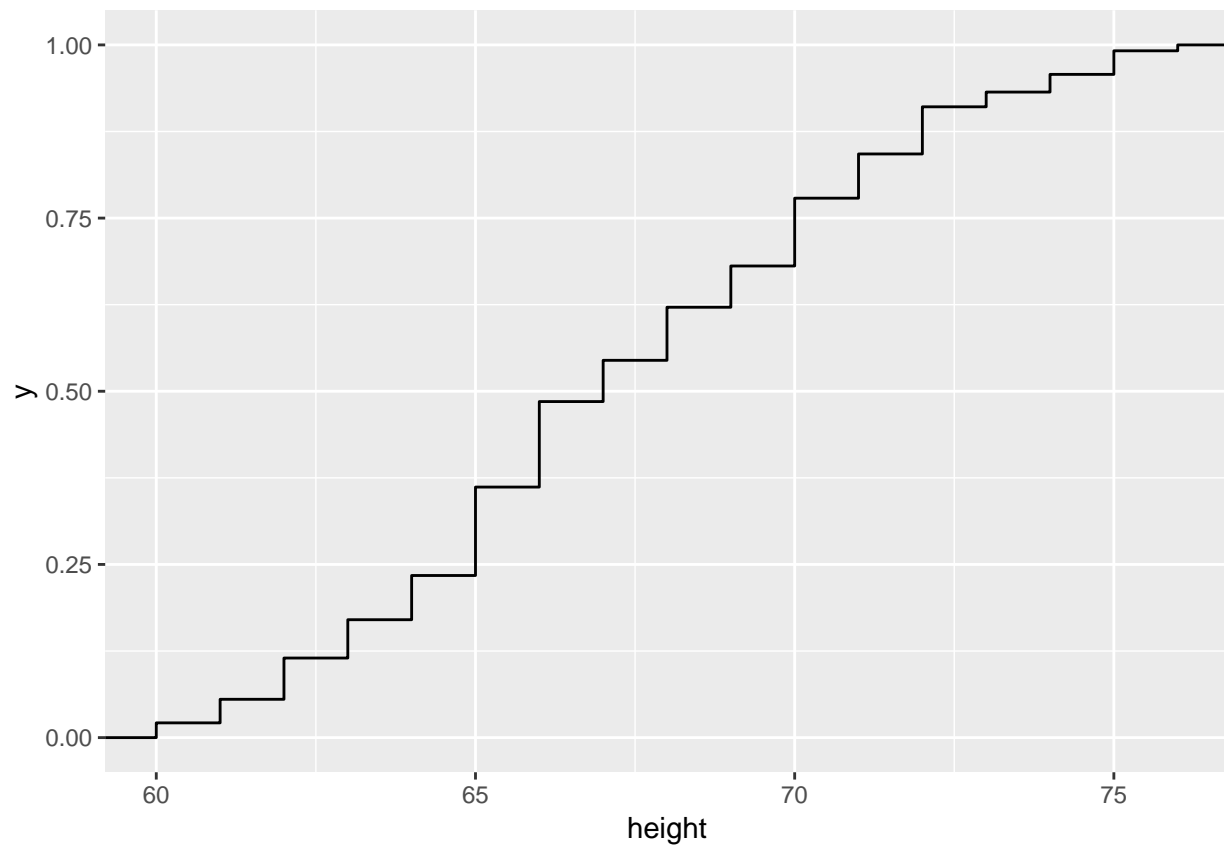
3/11/2019

```
library('lattice')  
library('ggplot2')
```

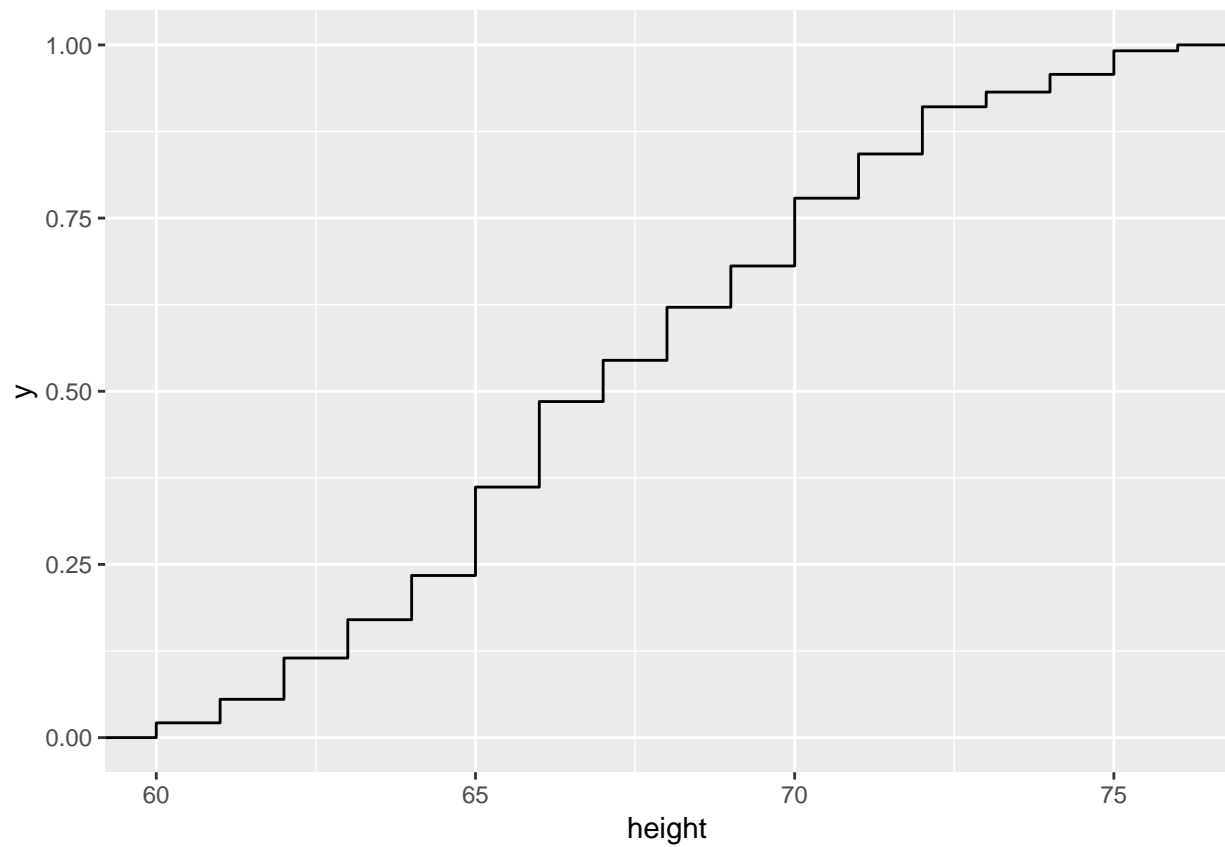
```
ggplot(singer, aes(x = height))
```



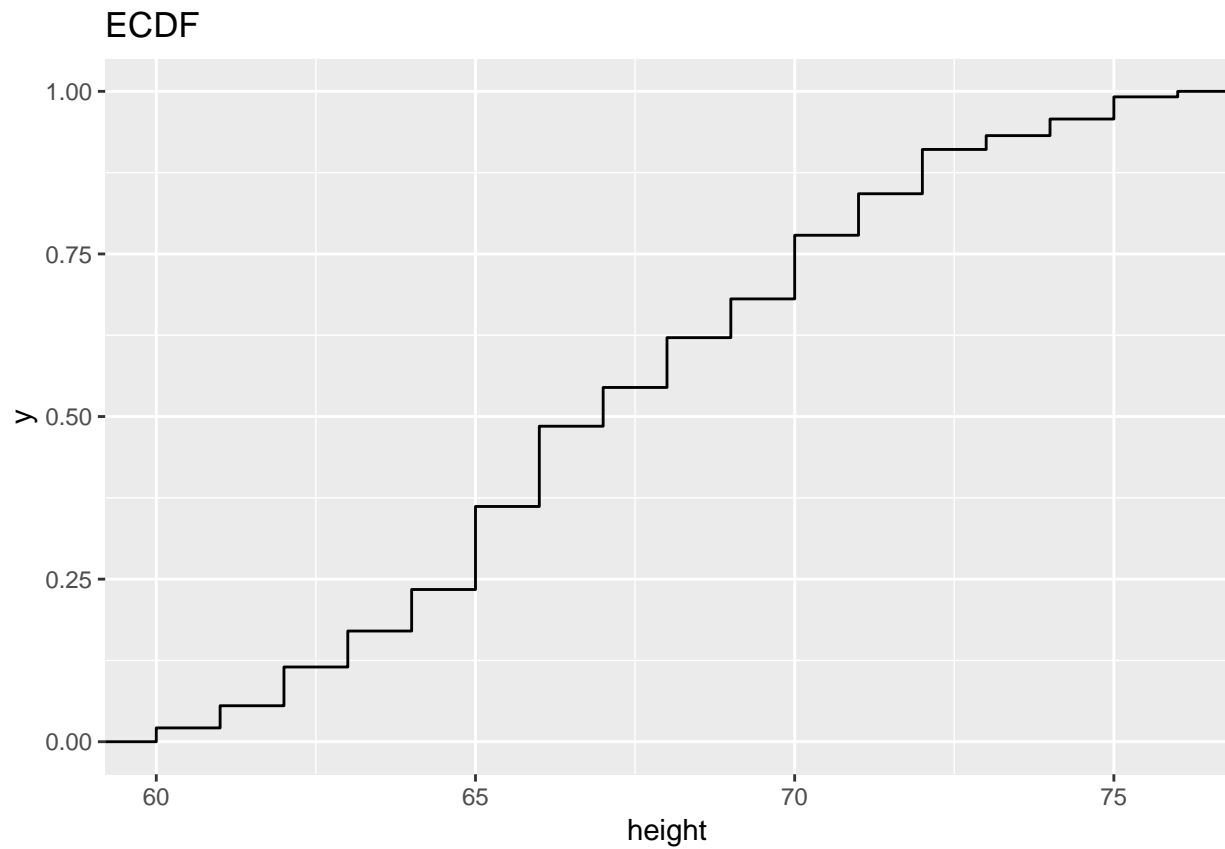
```
# ECDF in ggplot2  
ggplot(singer, aes(x = height)) + stat_ecdf()
```



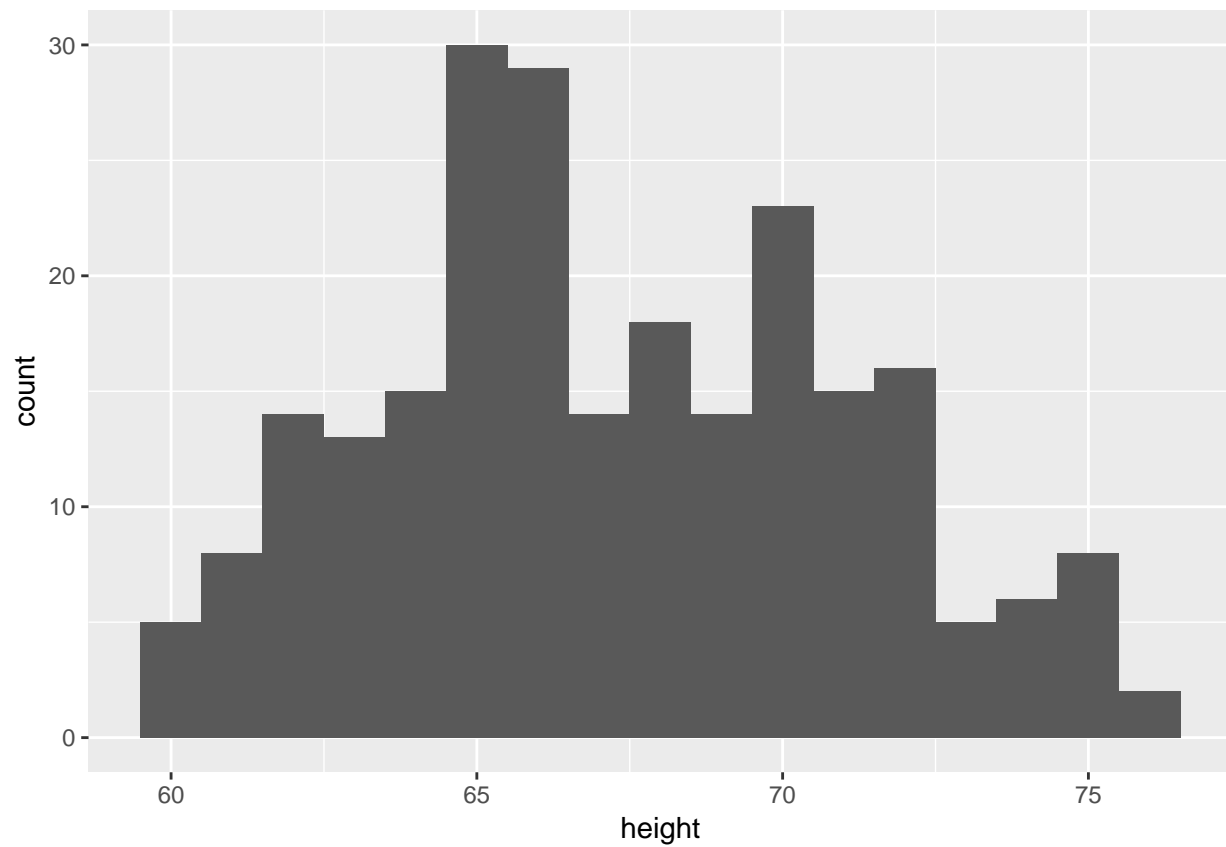
```
# Alternate way to get ECDF  
singer_gg <- ggplot(singer, aes(x = height))  
singer_gg + stat_ecdf()
```



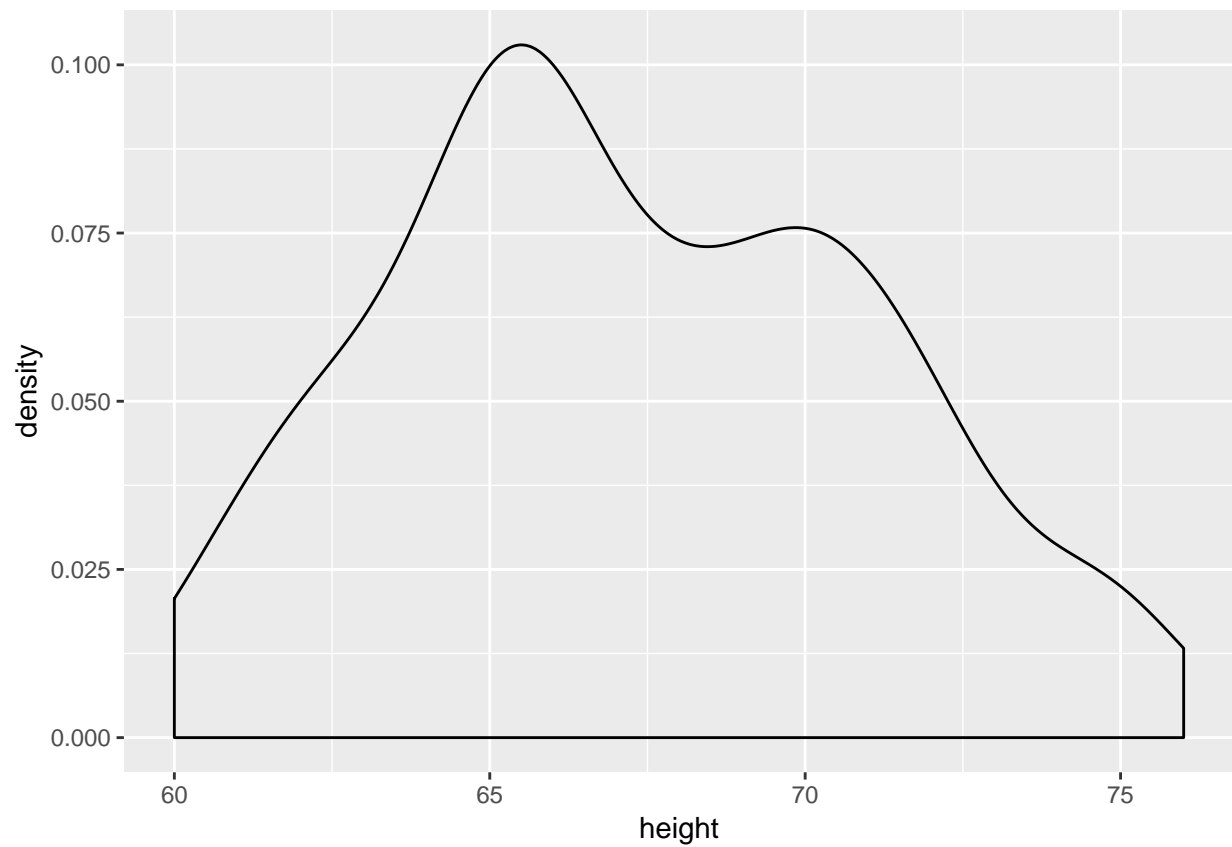
```
# Add Labels  
singer_gg + stat_ecdf() + ggtitle('ECDF')
```



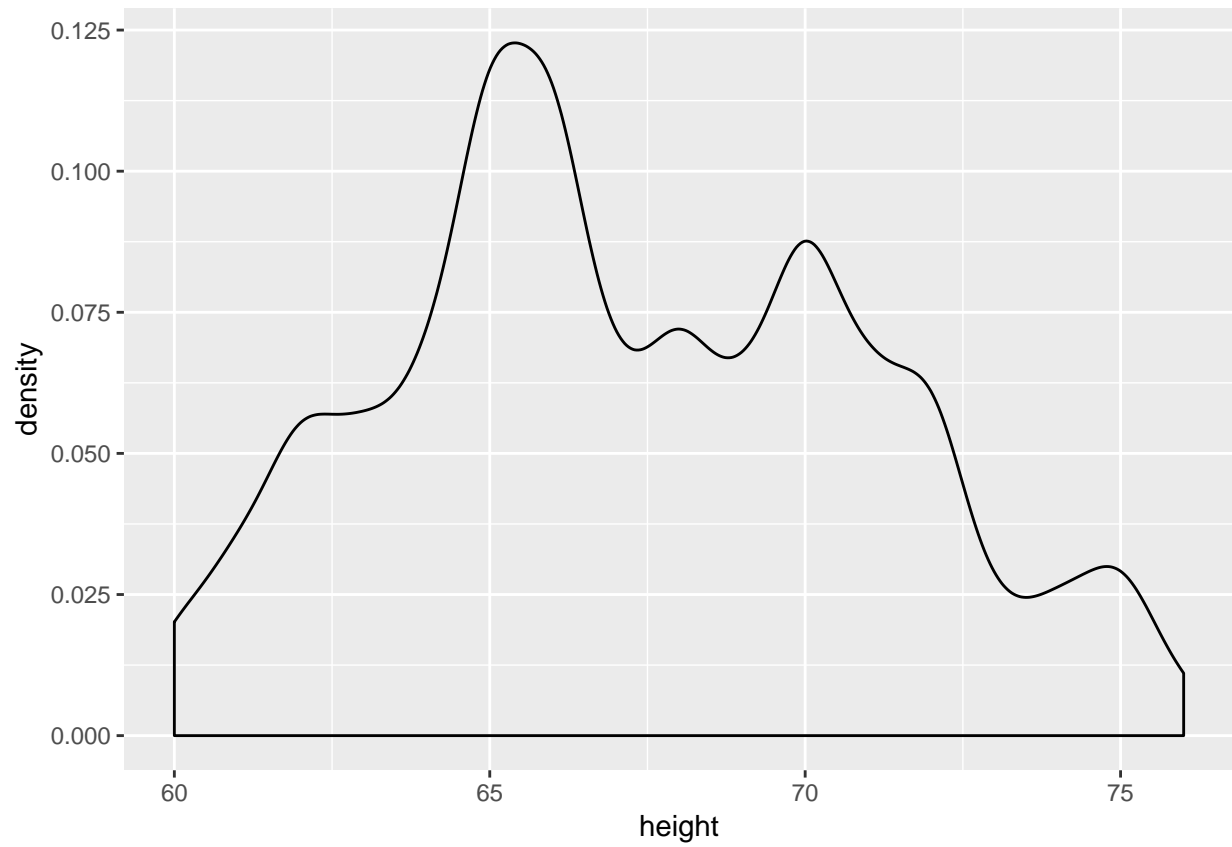
```
# Histogram  
#ggplot(singer, aes(x= height)) + geom_histogram()  
ggplot(singer, aes(x= height)) + geom_histogram(binwidth = 1)
```



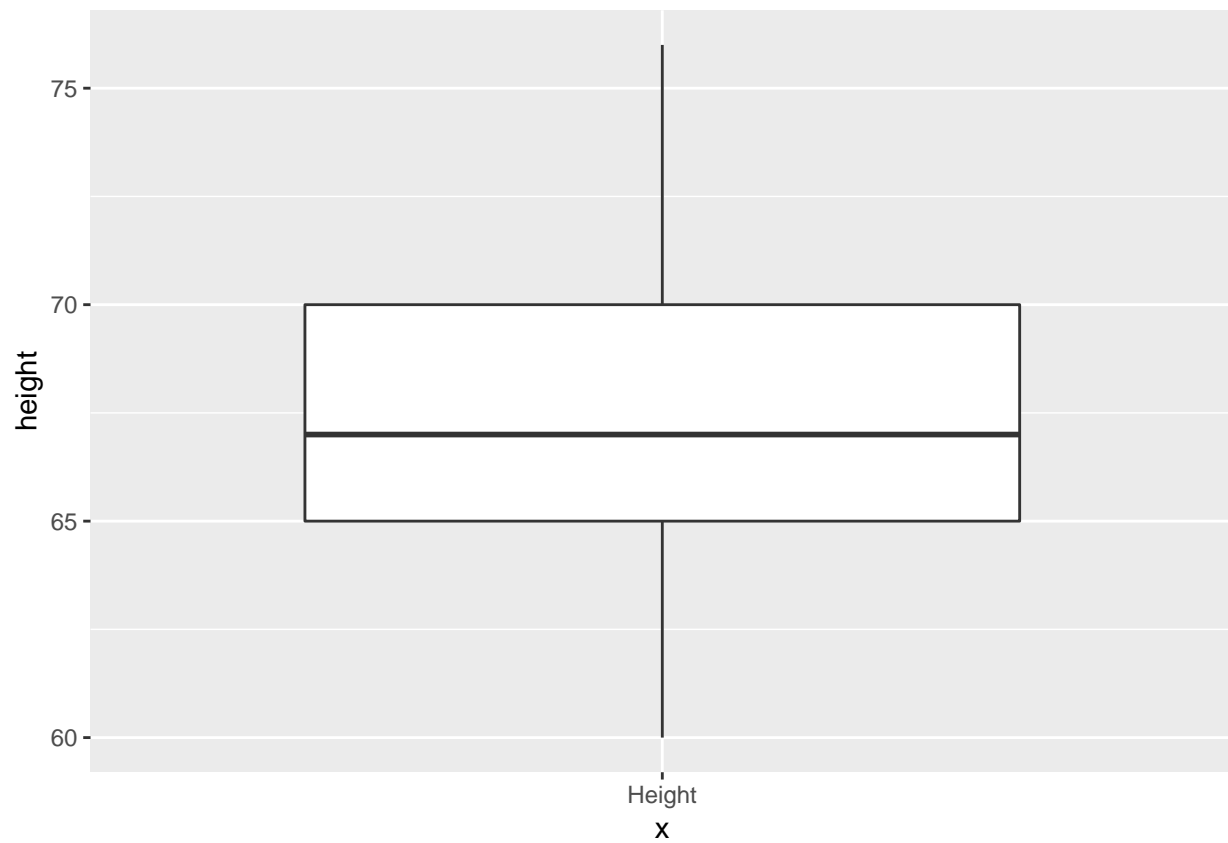
```
# Density Plot  
ggplot(singer, aes(x= height)) + geom_density()
```



```
ggplot(singer, aes(x= height)) + geom_density(adjust = 0.5)
```



```
# Boxplot  
ggplot(singer, aes(x= "Height", y = height)) + geom_boxplot()
```



```
# Multiple Boxplots  
ggplot(singer, aes(x = voice.part, y = height)) + geom_boxplot()
```