

visualization-uhuru-day2.Rmd

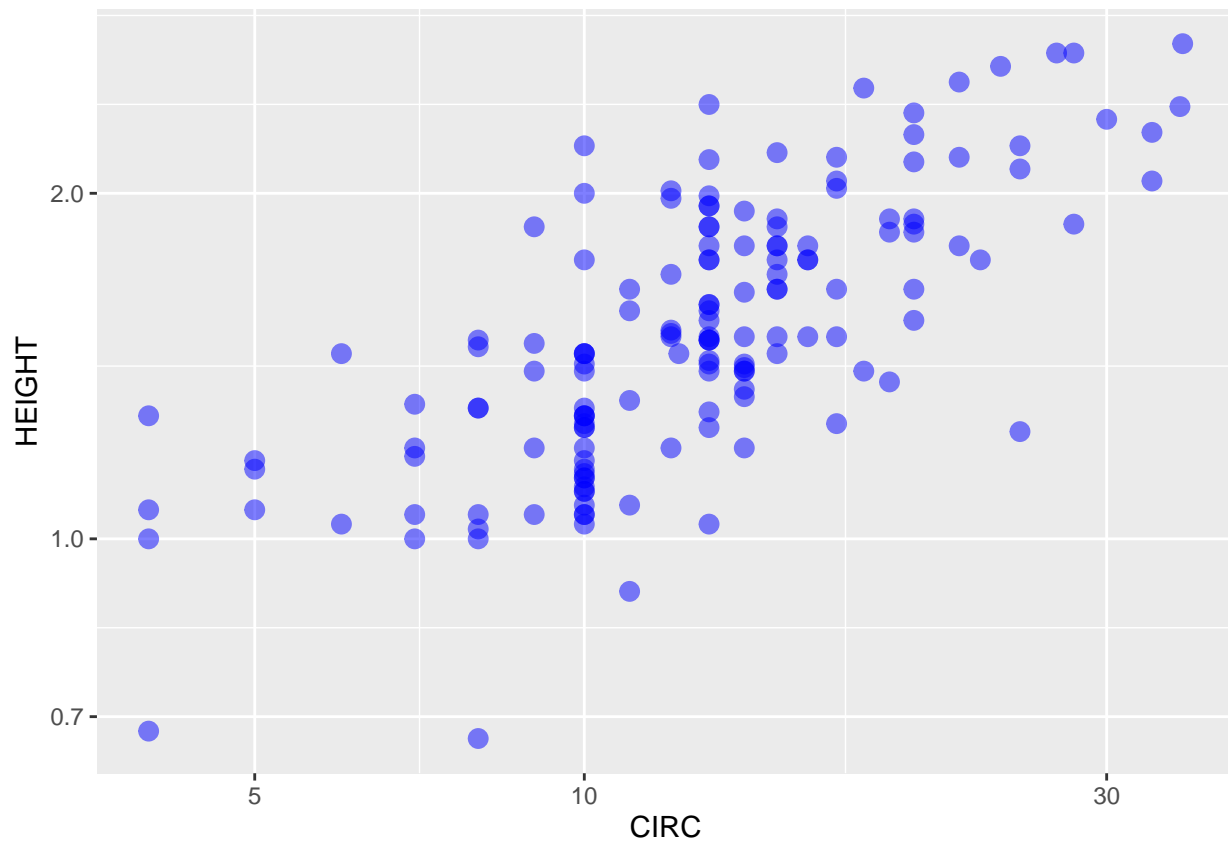
Austin Mercado

2023-02-28

In Class Activity Day:2 #####

```
ggplot(data = ACACIA, mapping = aes(x = CIRC, y = HEIGHT)) +  
  geom_point(size = 3, color = "blue", alpha = 0.5) +  
  scale_y_log10() +  
  scale_x_log10()
```

Warning: Removed 4 rows containing missing values (geom_point).

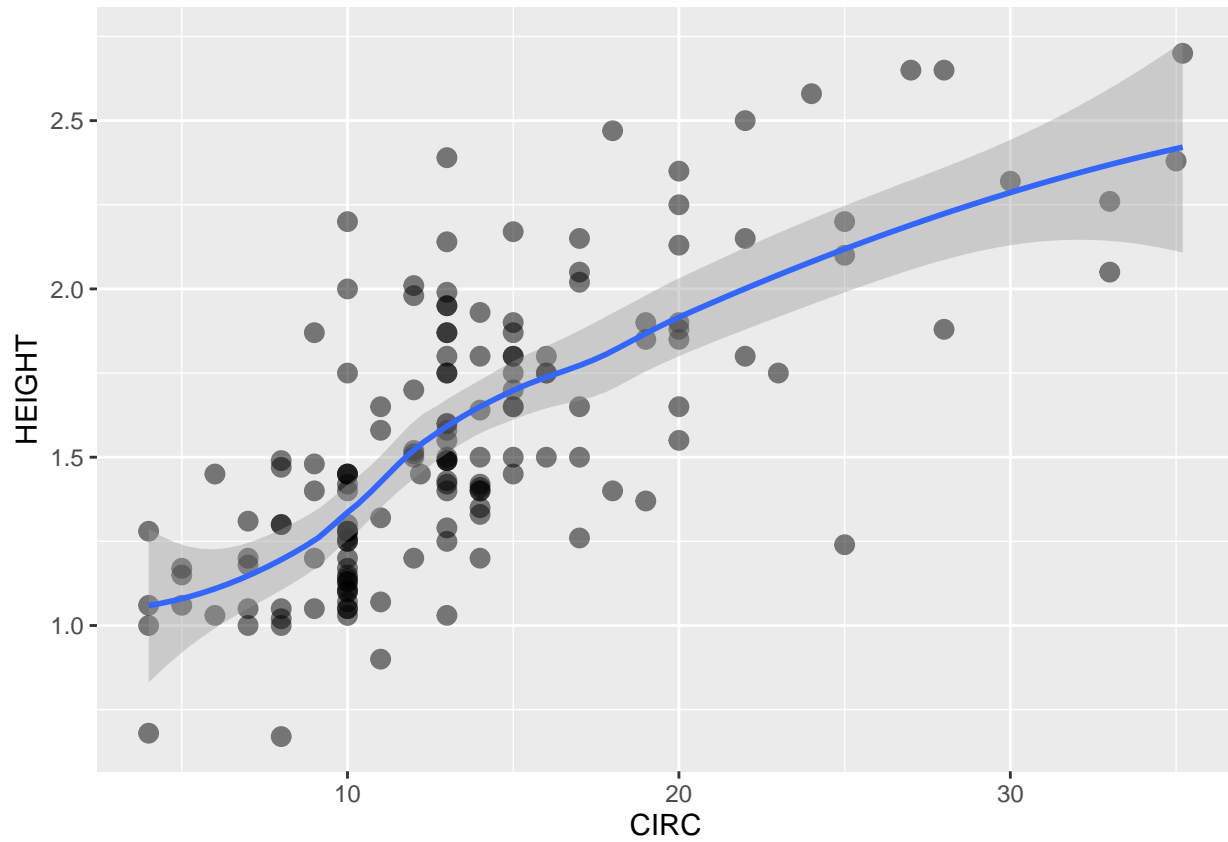


```
ggplot(ACACIA, aes(x = CIRC, y = HEIGHT)) +  
  geom_point(size = 3, alpha = 0.5) +  
  geom_smooth()
```

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

```
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
```

```
## Warning: Removed 4 rows containing missing values (geom_point).
```

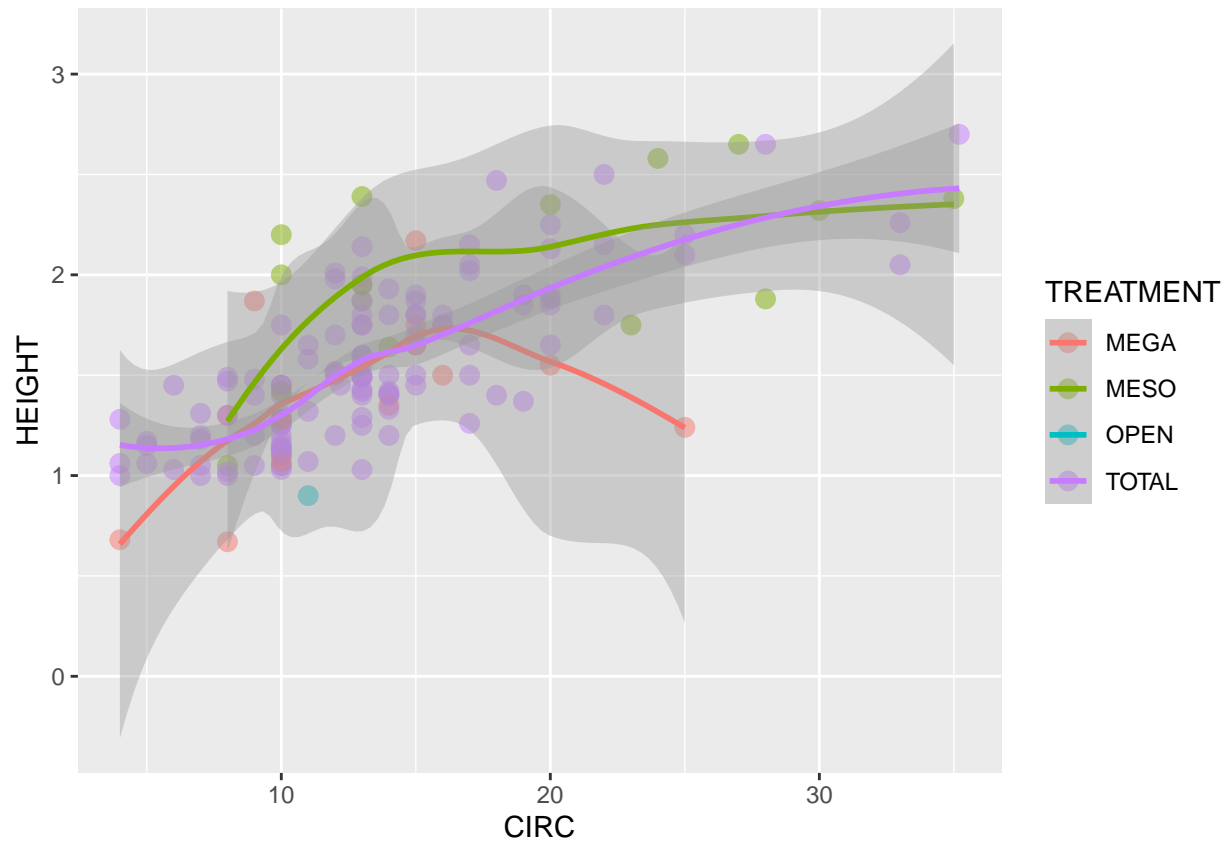


```
ggplot(ACACIA, aes(x = CIRC, y = HEIGHT, color = TREATMENT)) +  
  geom_point(size = 3, alpha = 0.5) +  
  geom_smooth()
```

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

```
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
```

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## Warning: Removed 4 rows containing missing values (geom_point).
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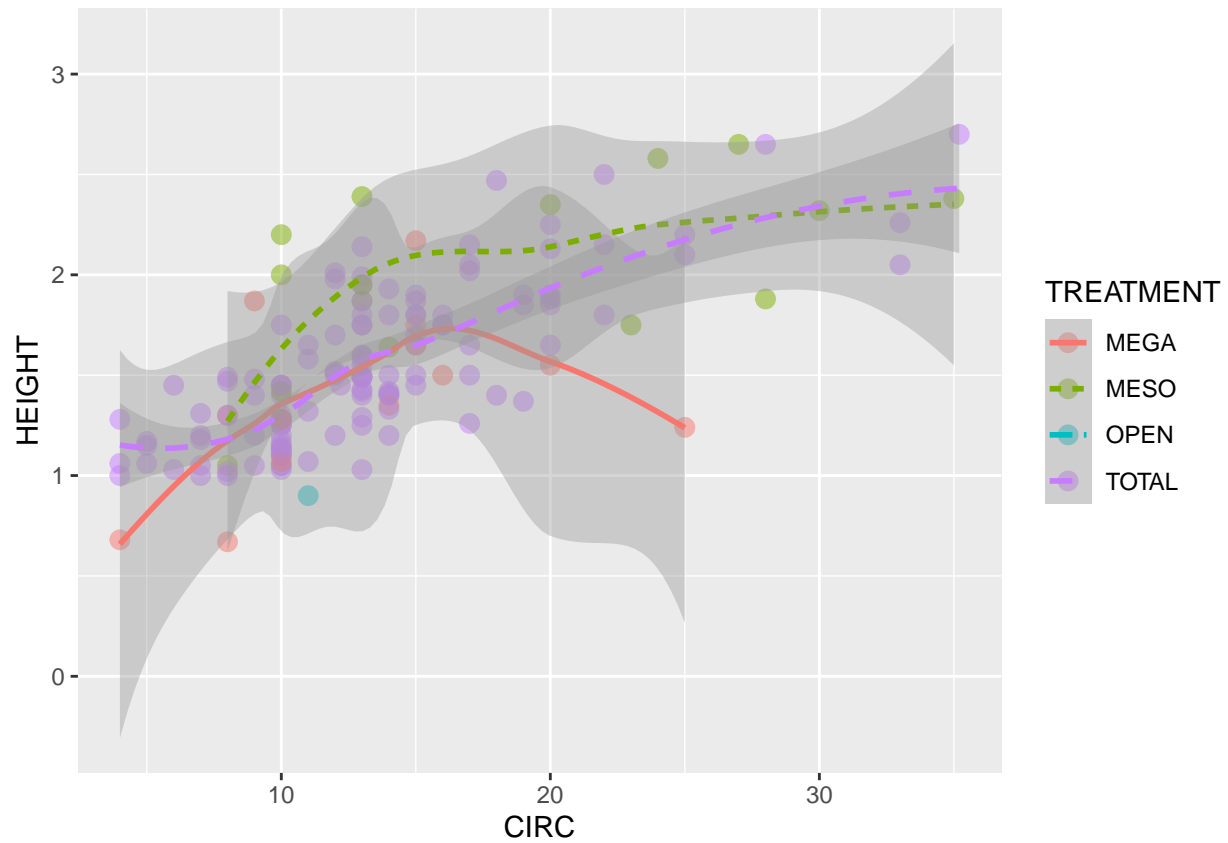


```
ggplot(ACACIA, aes(x = CIRC, y = HEIGHT, color = TREATMENT, linetype = TREATMENT)) +
  geom_point(size = 3, alpha = 0.5) +
  geom_smooth()
```

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

```
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
```

```
## Warning: Removed 4 rows containing missing values (geom_point).
```

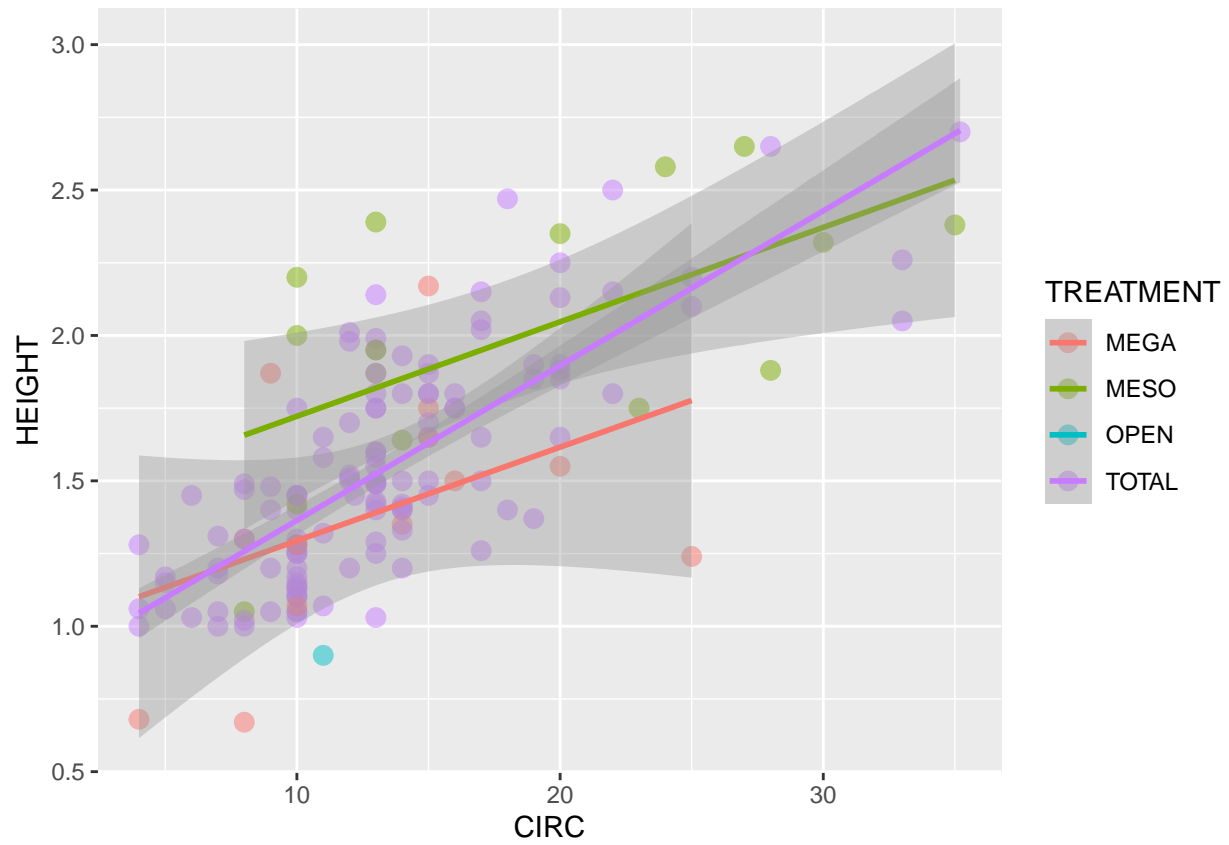


```
ggplot(ACACIA, aes(x = CIRC, y = HEIGHT, color = TREATMENT)) +
  geom_point(size = 3, alpha = 0.5) +
  geom_smooth(method = "lm") # try with "glm"
```

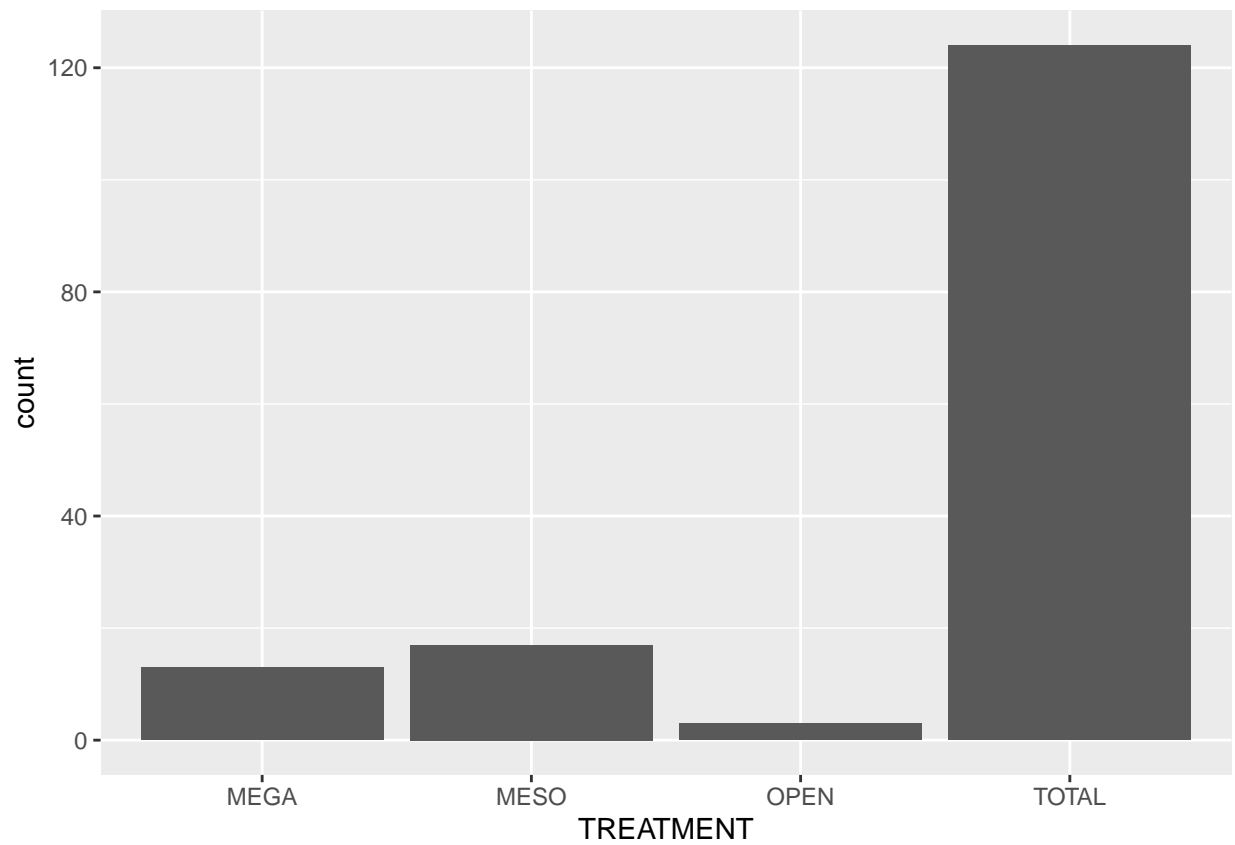
```
## 'geom_smooth()' using formula 'y ~ x'
```

```
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
```

```
## Warning: Removed 4 rows containing missing values (geom_point).
```



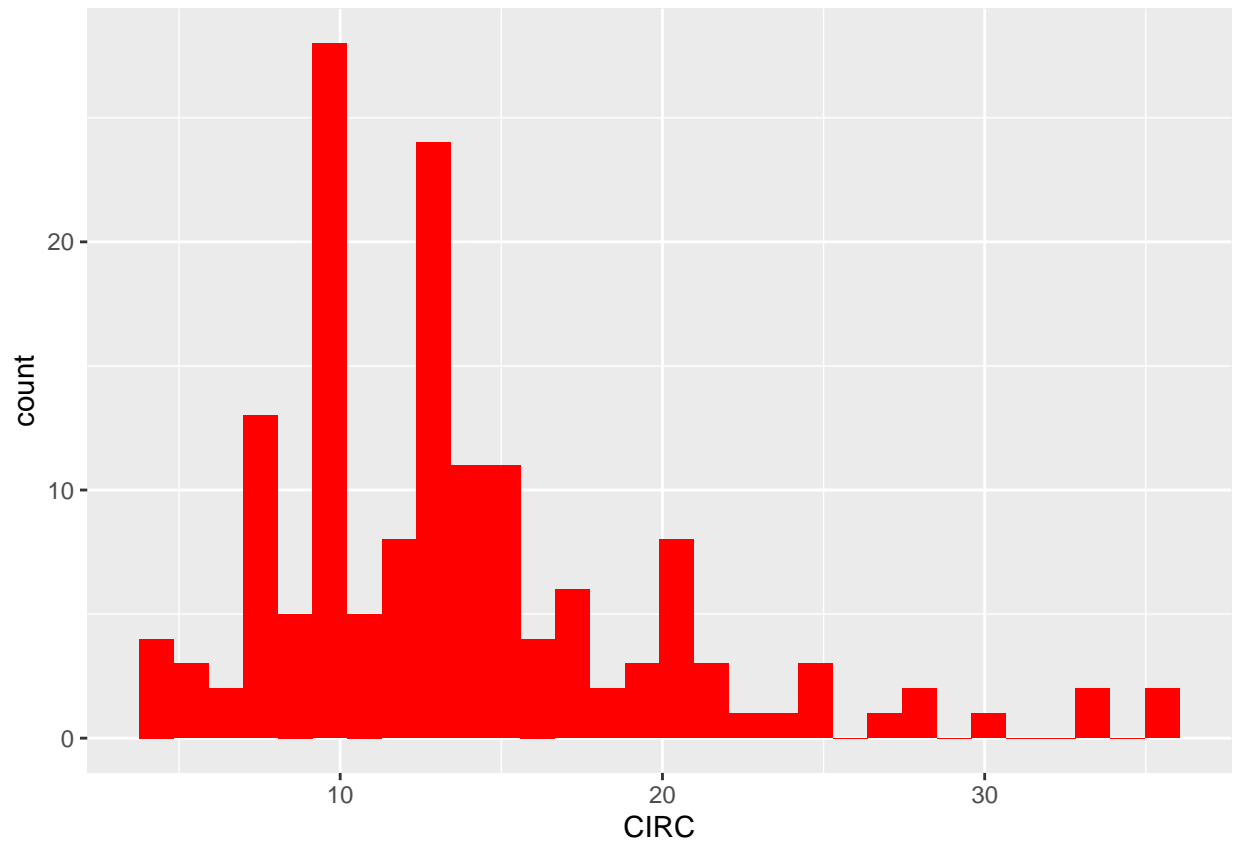
```
ggplot(data = ACACIA, mapping = aes(x = TREATMENT)) +  
geom_bar()
```



```
ggplot(ACACIA, aes(x = CIRC)) +  
geom_histogram(fill = "red")
```

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

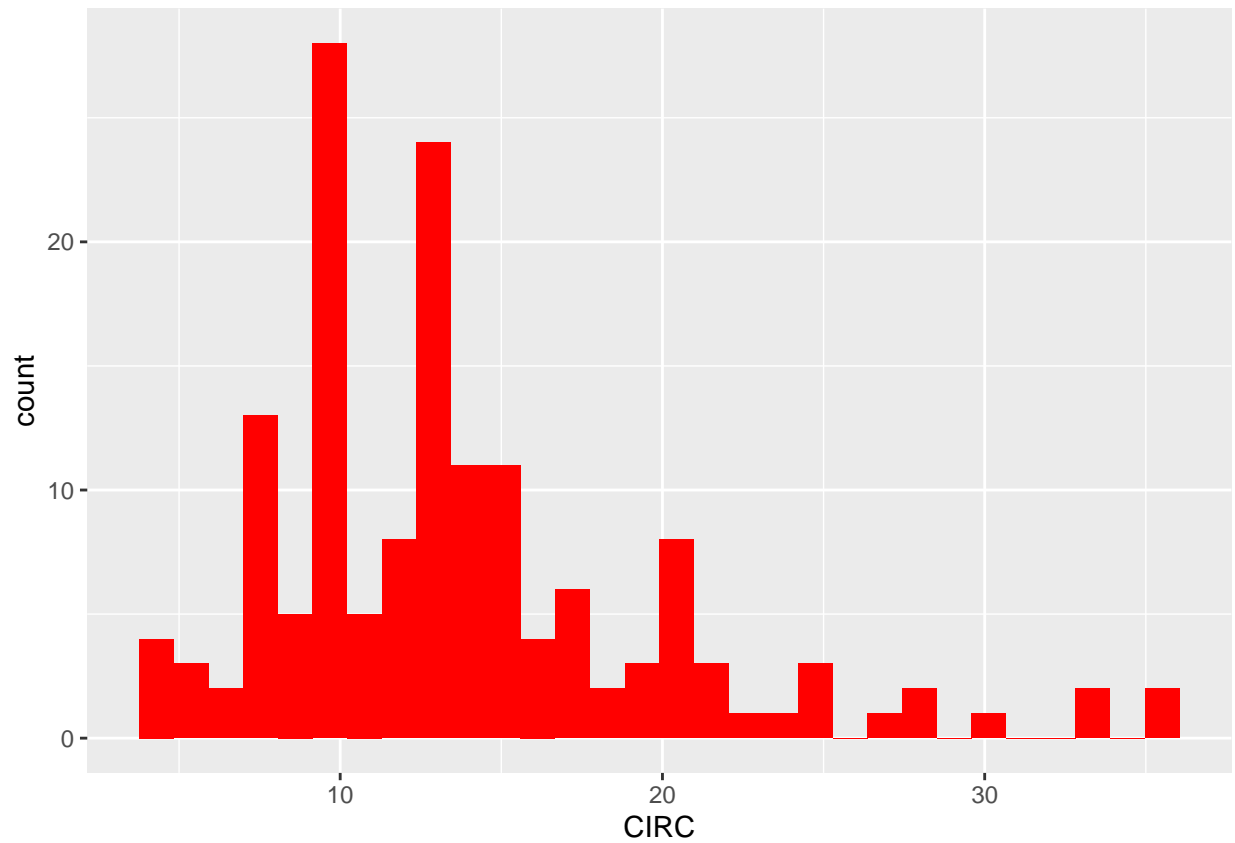
```
## Warning: Removed 4 rows containing non-finite values (stat_bin).
```



```
ggplot(ACACIA, aes(x = CIRC)) +  
geom_histogram(fill = "red")
```

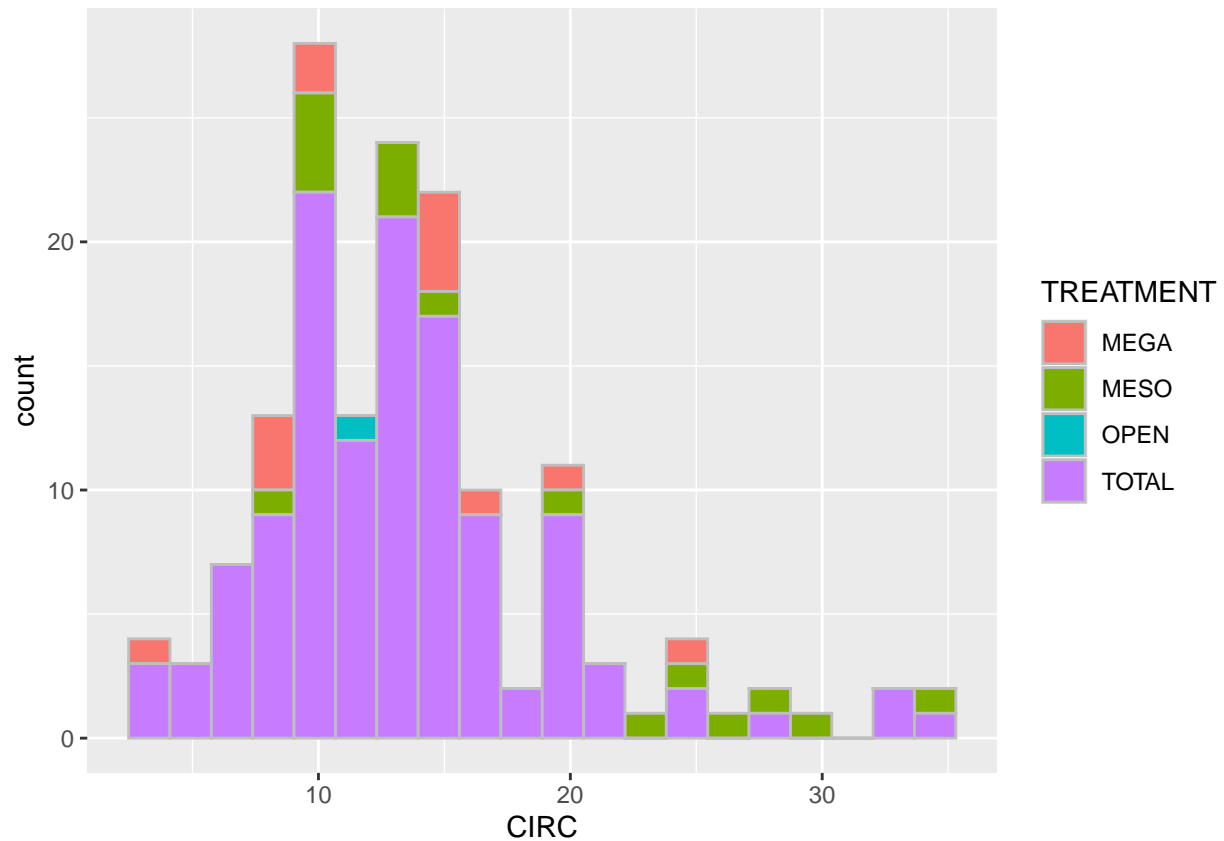
```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
```

```
## Warning: Removed 4 rows containing non-finite values (stat_bin).
```



```
ggplot(ACACIA, aes(x = CIRC, fill = TREATMENT)) +  
geom_histogram(bins = 20, color = "gray")
```

```
## Warning: Removed 4 rows containing non-finite values (stat_bin).
```

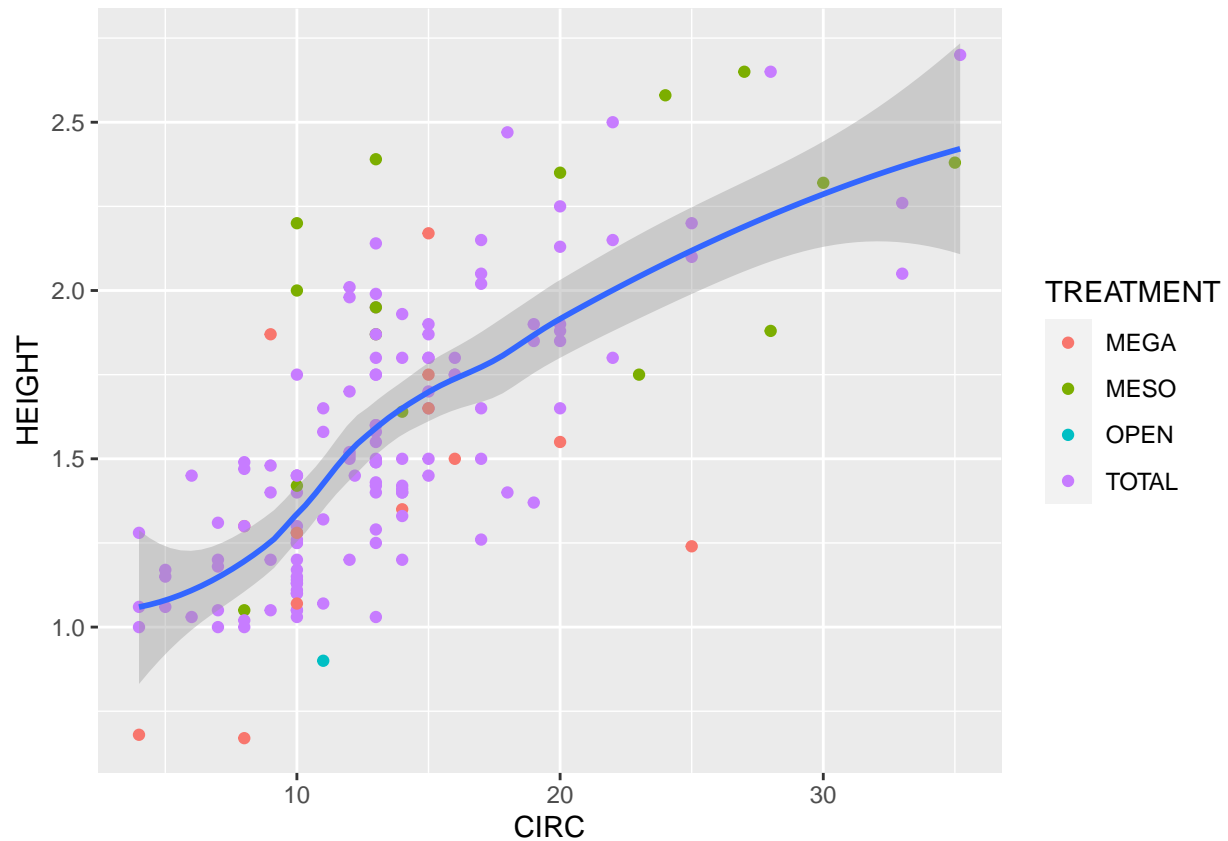



```
ggplot() +
  geom_point(data = ACACIA,
            mapping = aes(x = CIRC, y = HEIGHT,
                          color = TREATMENT)) +
  geom_smooth(data = ACACIA,
            mapping = aes(x = CIRC, y = HEIGHT))
```

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

```
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
```

```
## Warning: Removed 4 rows containing missing values (geom_point).
```



```
ggplot() +
  geom_point(data = ACACIA,
            mapping = aes(x = CIRC, y = HEIGHT,
                          color = TREATMENT)) +
  geom_smooth(data = ACACIA,
            mapping = aes(x = CIRC, y = HEIGHT)) +
  geom_histogram(data = ACACIA,
            mapping = aes(x = CIRC, color = TREATMENT),
            alpha = 0.1)
```

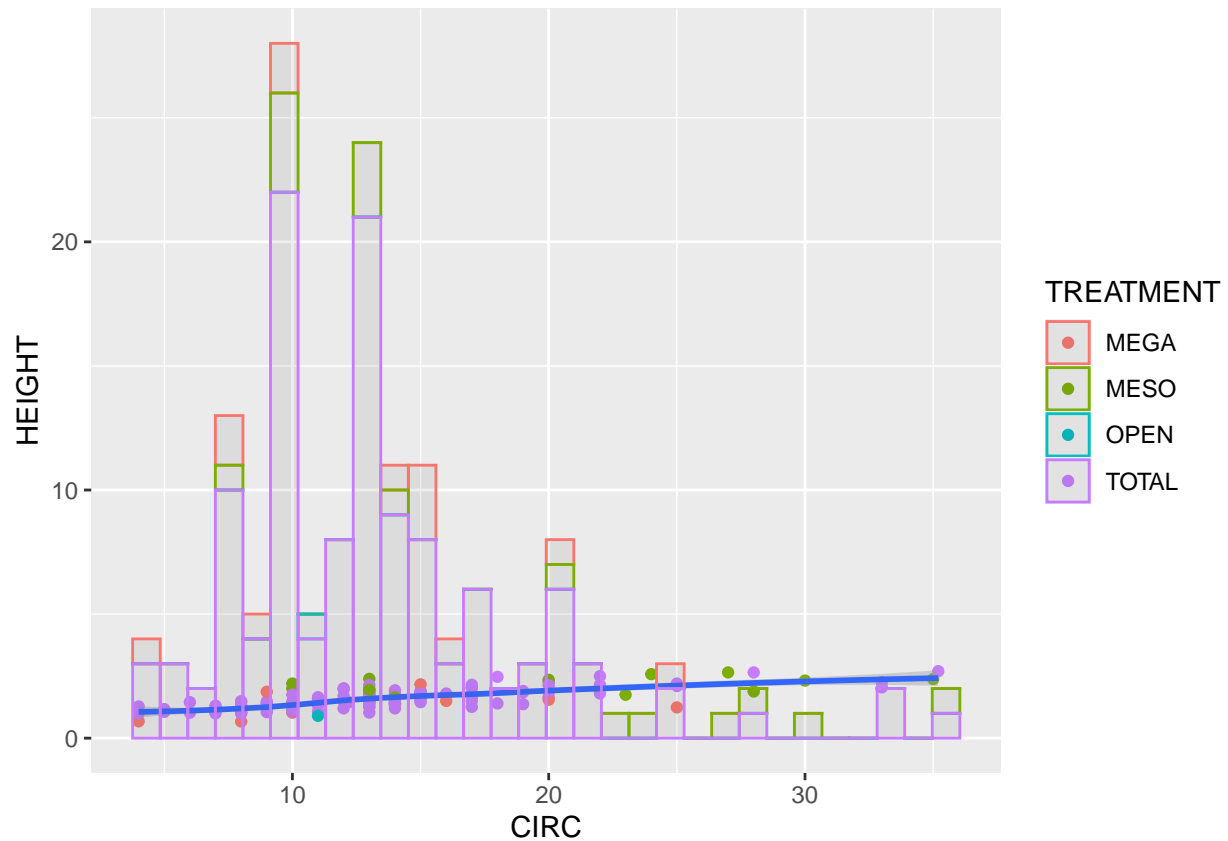
```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
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## Warning: Removed 4 rows containing non-finite values (stat_smooth).
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```
## 'stat_bin()' using 'bins = 30'. Pick better value with 'binwidth'.
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```
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```

```
## Warning: Removed 4 rows containing missing values (geom_point).
```



```
ggsave("acacia_by_treatment.jpg")
```

```
## Saving 6.5 x 4.5 in image
```

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

```
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
```

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

```
## Warning: Removed 4 rows containing non-finite values (stat_bin).
```

```
## Warning: Removed 4 rows containing missing values (geom_point).
```

```
ggsave("acacia_by_treatment.pdf", height = 5, width = 5)
```

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

```
## Warning: Removed 4 rows containing non-finite values (stat_smooth).
```

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