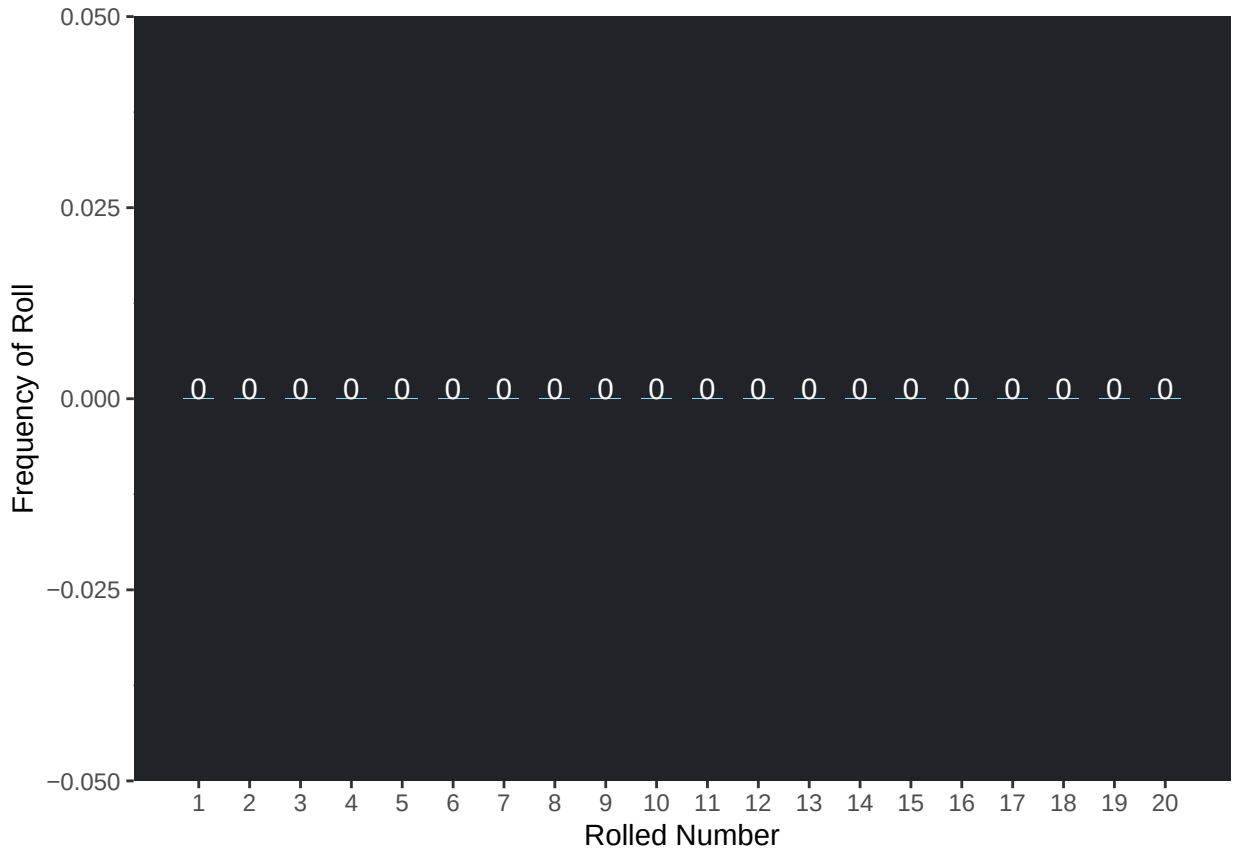
Dice Data

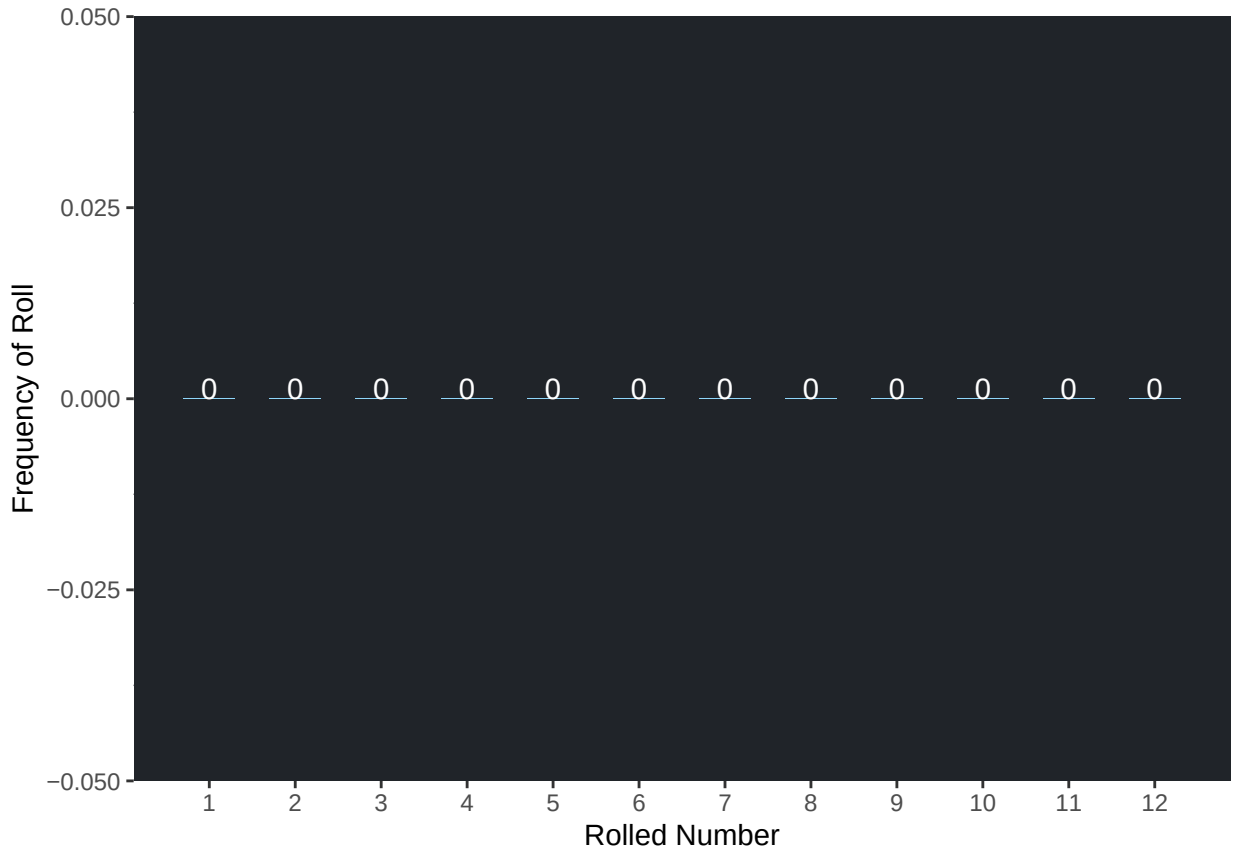
```
data <- read.csv("Dice-Data.csv")

d20 <- data %>%
  select(starts_with("d20"))

d12 <- data %>%
  select(starts_with("d12"))

d10 <- data %>%
  select(starts_with("d10"))

d8 <- data %>%
  select(starts_with("d8"))

d6 <- data %>%
  select(starts_with("d6"))

d4 <- data %>%
  select(starts_with("d4"))


write.csv(d20, "d20.csv", row.names = FALSE)
write.csv(d12, "d12.csv", row.names = FALSE)
write.csv(d10, "d10.csv", row.names = FALSE)
write.csv(d8, "d8.csv", row.names = FALSE)
write.csv(d6, "d6.csv", row.names = FALSE)
write.csv(d4, "d4.csv", row.names = FALSE)

system('python3 data-format.py')

d20 <- read.csv("d20-Sums.csv")
d12 <- read.csv("d12-Sums.csv")
d10 <- read.csv("d10-Sums.csv")
d8 <- read.csv("d8-Sums.csv")
d6 <- read.csv("d6-Sums.csv")
d4 <- read.csv("d4-Sums.csv")

d20Plot <- ggplot(data = d20, aes(x = Value, y = Freq)) +
  geom_bar(stat = "identity", fill = "#8FD6FA", width = 0.6) +
  theme(panel.background = element_rect(fill = "#202429"),
        panel.grid = element_line(color = "#202429")) +
  xlab("Rolled Number") +
  ylab("Frequency of Roll") +
  scale_x_continuous(labels = as.character(d20$Value), breaks = d20$Value) +
  geom_text(aes(label = Freq), vjust = 0, color = "white")
d20Plot
```




```
ggsave("d20Stats.png", plot = d20Plot)
```

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

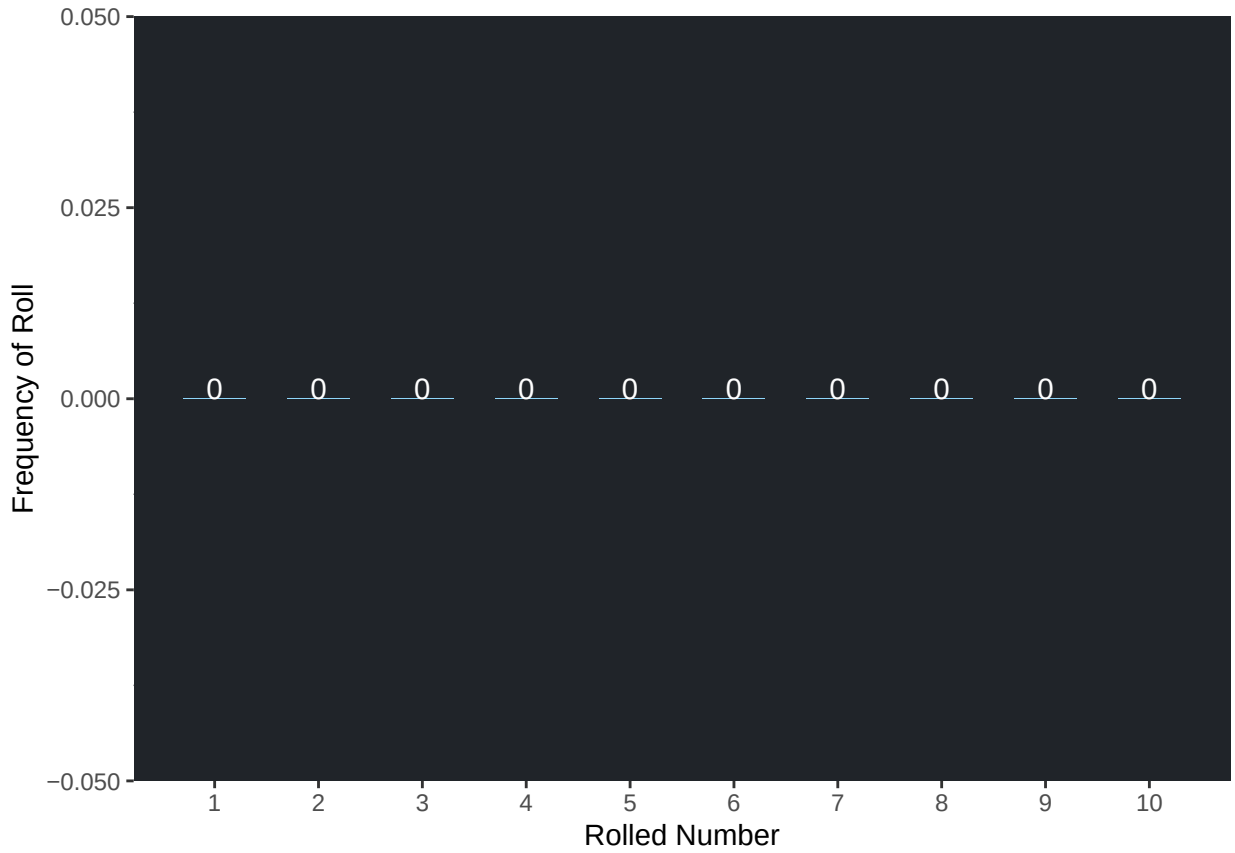
```
d12Plot <- ggplot(data = d12, aes(x = Value, y = Freq)) +
  geom_bar(stat = "identity", fill = "#8FD6FA", width = 0.6) +
  theme(panel.background = element_rect(fill = "#202429"),
        panel.grid = element_line(color = "#202429")) +
  xlab("Rolled Number") +
  ylab("Frequency of Roll") +
  scale_x_continuous(labels = as.character(d12$Value), breaks = d12$Value) +
  geom_text(aes(label = Freq), vjust = 0, color = "white")
d12Plot
```




```
ggsave("d12Stats.png", plot = d12Plot)
```

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

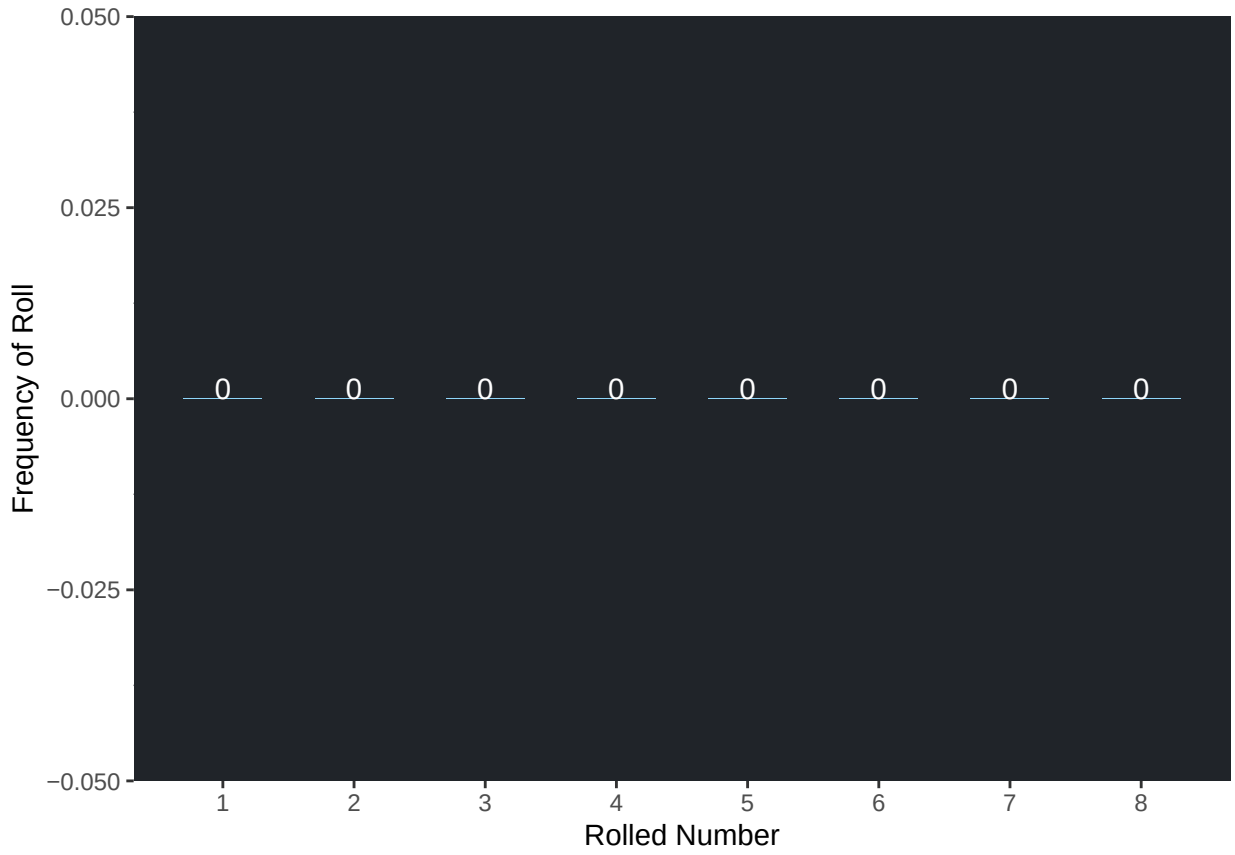
```
d10Plot <- ggplot(data = d10, aes(x = Value, y = Freq)) +
  geom_bar(stat = "identity", fill = "#8FD6FA", width = 0.6) +
  theme(panel.background = element_rect(fill = "#202429"),
        panel.grid = element_line(color = "#202429")) +
  xlab("Rolled Number") +
  ylab("Frequency of Roll") +
  scale_x_continuous(labels = as.character(d10$Value), breaks = d10$Value) +
  geom_text(aes(label = Freq), vjust = 0, color = "white")
d10Plot
```




```
ggsave("d10Stats.png", plot = d10Plot)
```

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

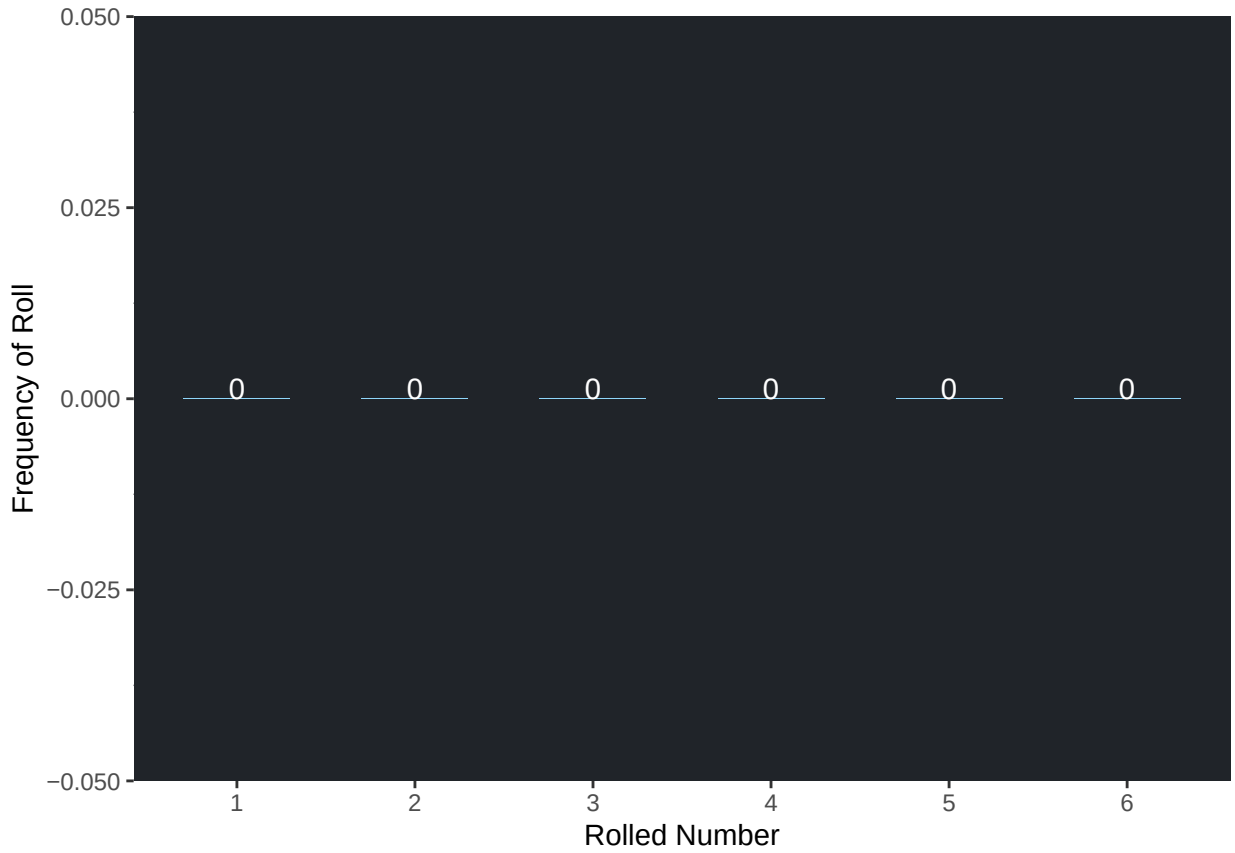
```
d8Plot <- ggplot(data = d8, aes(x = Value, y = Freq)) +
  geom_bar(stat = "identity", fill = "#8FD6FA", width = 0.6) +
  theme(panel.background = element_rect(fill = "#202429"),
        panel.grid = element_line(color = "#202429")) +
  xlab("Rolled Number") +
  ylab("Frequency of Roll") +
  scale_x_continuous(labels = as.character(d8$Value), breaks = d8$Value) +
  geom_text(aes(label = Freq), vjust = 0, color = "white")
d8Plot
```




```
ggsave("d8Stats.png", plot = d8Plot)
```

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

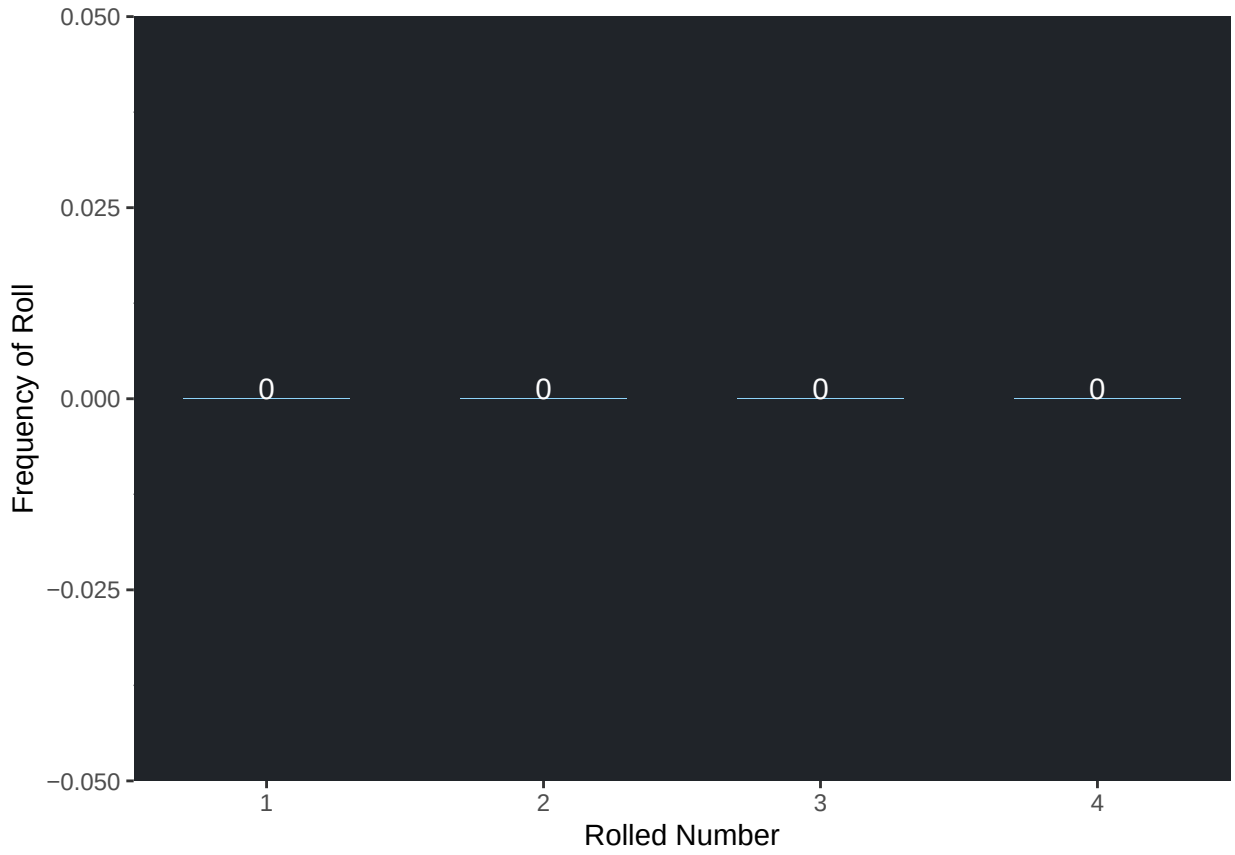
```
d6Plot <- ggplot(data = d6, aes(x = Value, y = Freq)) +
  geom_bar(stat = "identity", fill = "#8FD6FA", width = 0.6) +
  theme(panel.background = element_rect(fill = "#202429"),
        panel.grid = element_line(color = "#202429")) +
  xlab("Rolled Number") +
  ylab("Frequency of Roll") +
  scale_x_continuous(labels = as.character(d6$Value), breaks = d6$Value) +
  geom_text(aes(label = Freq), vjust = 0, color = "white")
d6Plot
```




```
ggsave("d6Stats.png", plot = d6Plot)
```

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

```
d4Plot <- ggplot(data = d4, aes(x = Value, y = Freq)) +
  geom_bar(stat = "identity", fill = "#8FD4FA", width = 0.6) +
  theme(panel.background = element_rect(fill = "#202429"),
        panel.grid = element_line(color = "#202429")) +
  xlab("Rolled Number") +
  ylab("Frequency of Roll") +
  scale_x_continuous(labels = as.character(d4$Value), breaks = d4$Value) +
  geom_text(aes(label = Freq), vjust = 0, color = "white")
d4Plot
```




```
ggsave("d4Stats.png", plot = d4Plot)
```

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