# Module4Assignment.R

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```r
freq <- c(0.6, 0.3, 0.4, 0.4, 0.2, 0.6, 0.3, 0.4, 0.9, 0.2)
bloodp <- c(103, 87, 32, 42, 59, 109, 78, 205, 135, 176)
first <- c(1, 1, 1, 1, 0, 0, 0, 0, NA, 1)
second <- c(0, 0, 1, 1, 0, 0, 1, 1, 1, 1)
finaldecision <- c(0, 1, 0, 1, 0, 1, 0, 1, 1, 1)
hospitalData <- data.frame(freq, bloodp, first, second, finaldecision)
library(ggplot2)
ggplot(hospitalData, aes(x = factor(first), y = bloodp, fill = factor(first))) +
  geom_boxplot() +
  labs(title = "Blood Pressure by First Assessment", x = "First Assessment",
       y = "Blood Pressure", fill = "0 = Good, 1 = Bad")
```


Blood Pressure by First Assessment
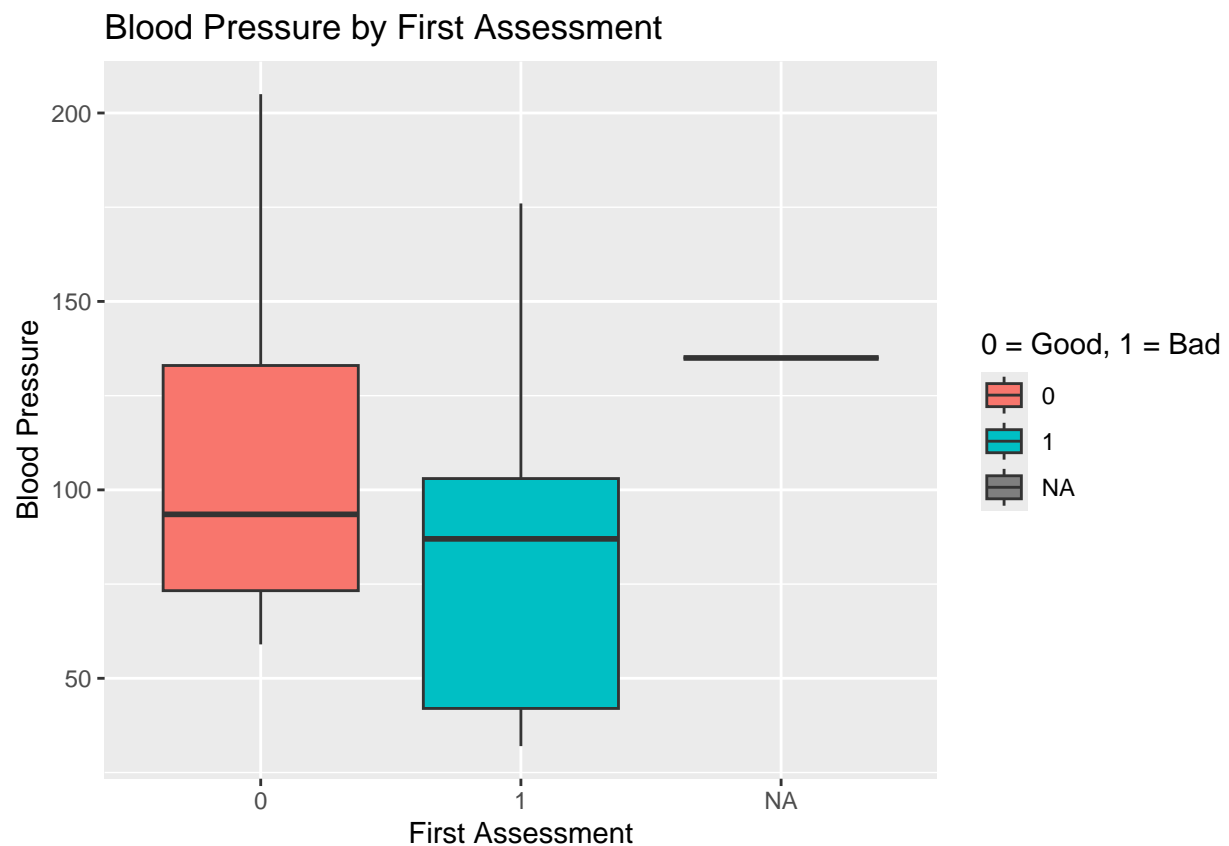
```
ggplot(hospitalData, aes(x = bloodp)) +
  geom_histogram(binwidth = 20, fill = "red", color = "black", alpha = 0.7) +
  labs(title = "Distribution of Blood Pressure", x = "Blood Pressure", y = "Frequency")
```

Distribution of Blood Pressure