

Statistics 135 – Lab Project

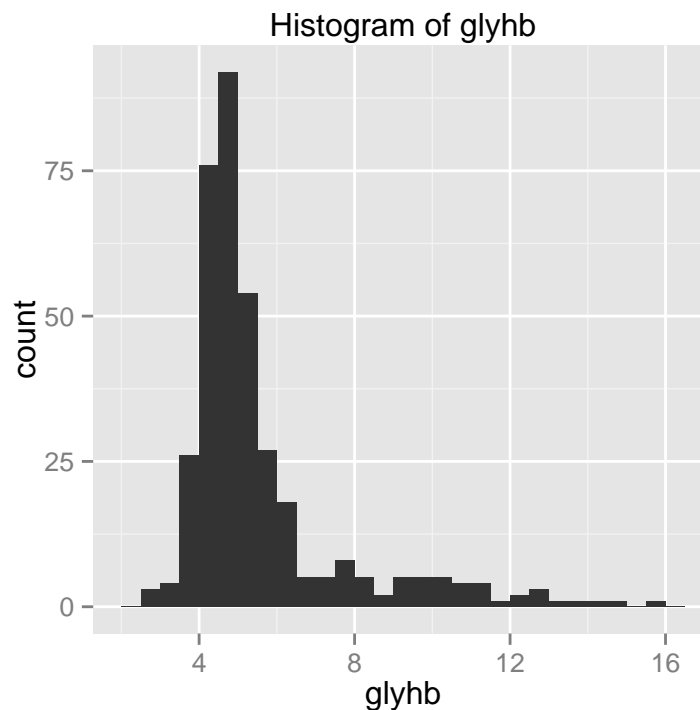
April 26, 2015

1 Background

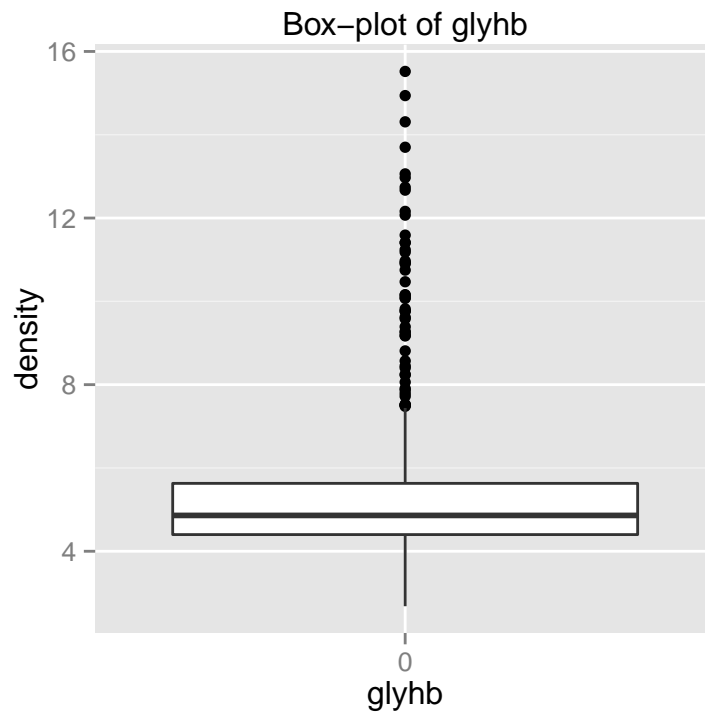
```
library("ggplot2")  
  
data.df <- na.omit(read.csv("diabetes.csv"))
```

2 Accessing Data, Visualization and Summarization

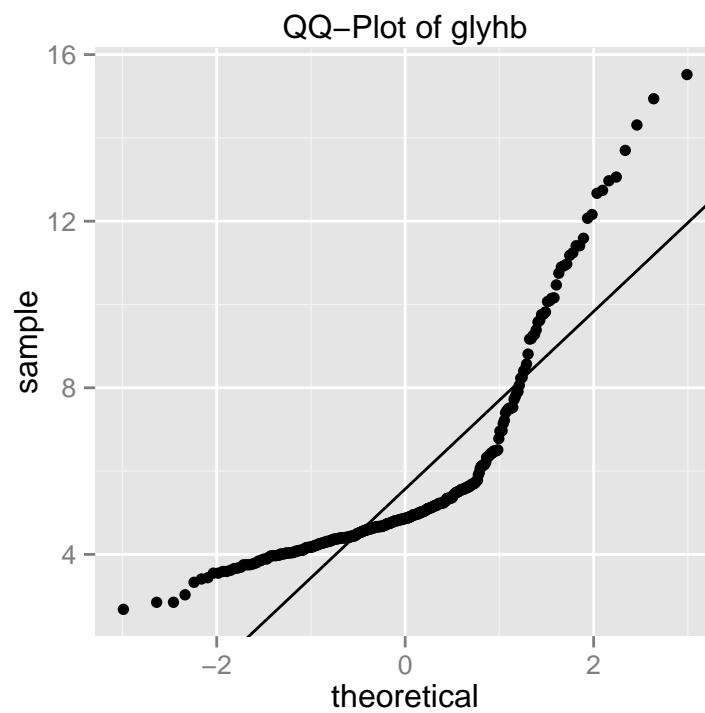
```
1. ggplot(data.df) +  
  geom_histogram(aes(x=glyhb), binwidth=0.5) +  
  labs(title="Histogram of glyhb") +  
  theme(plot.title=element_text(size=rel(1)))
```



```
ggplot(data.df) +  
  geom_boxplot(aes(x=factor(0), y=glyhb)) +  
  labs(title="Box-plot of glyhb", x="glyhb", y="density") +  
  theme(plot.title=element_text(size=rel(1)))
```



```
ggplot(data.df) +
  stat_qq(aes(sample=glyhb)) +
  geom_abline(aes(intercept=mean(glyhb), slope=sd(glyhb))) +
  labs(title="QQ-Plot of glyhb") +
  theme(plot.title=element_text(size=rel(1)))
```



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- 4.
- 5.
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3 Parametric Inferece

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- 2.
- 3.

4 Testing

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- 2.
- 3.
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- 5.
- 6.

5 Regression

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.