

ECO395M STAT LEARNING Homework 1*

Mingwei Li, Xinyu Leng, Hongjin Long

Abstract

This document is the first homework of ECO395M STAT LEARNING. The projects **Gas Price, a bike share network, flights at ABIA** and **K-nearest neighbors** are included in this document. The whole project is available at [here](#).

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Code

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*Mingwei Li, Xinyu Leng and Hongjin Long are master students of economics, The University of Texas at Austin

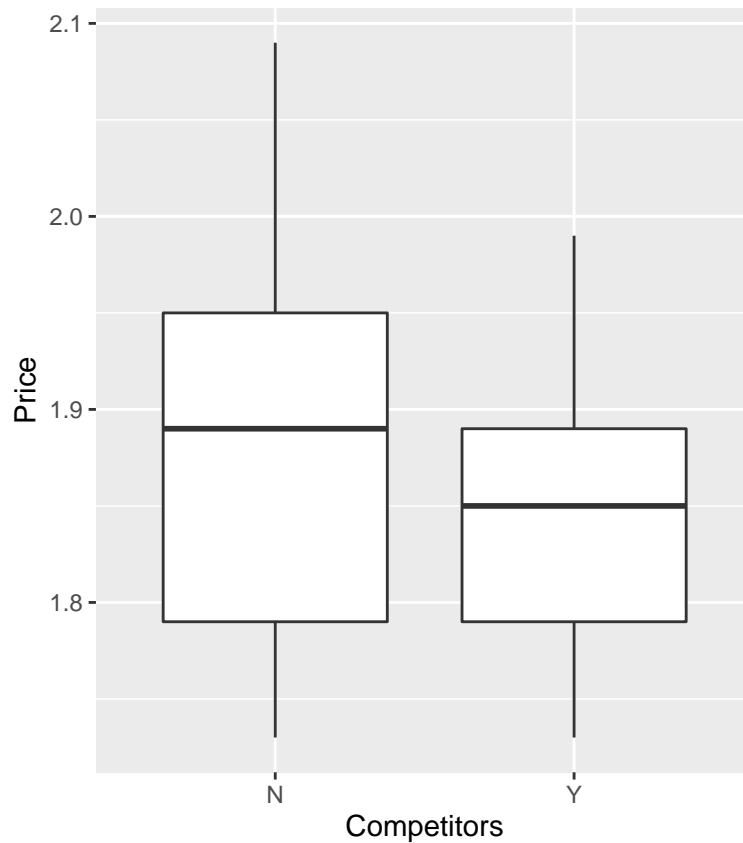
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1 Gas Price

(A) Gas stations charge more if they lack direct competition in sight (boxplot).

```
p0 = ggplot(data=gasprice) +  
  geom_boxplot(aes(x=Competitors, y=Price))  
p0
```

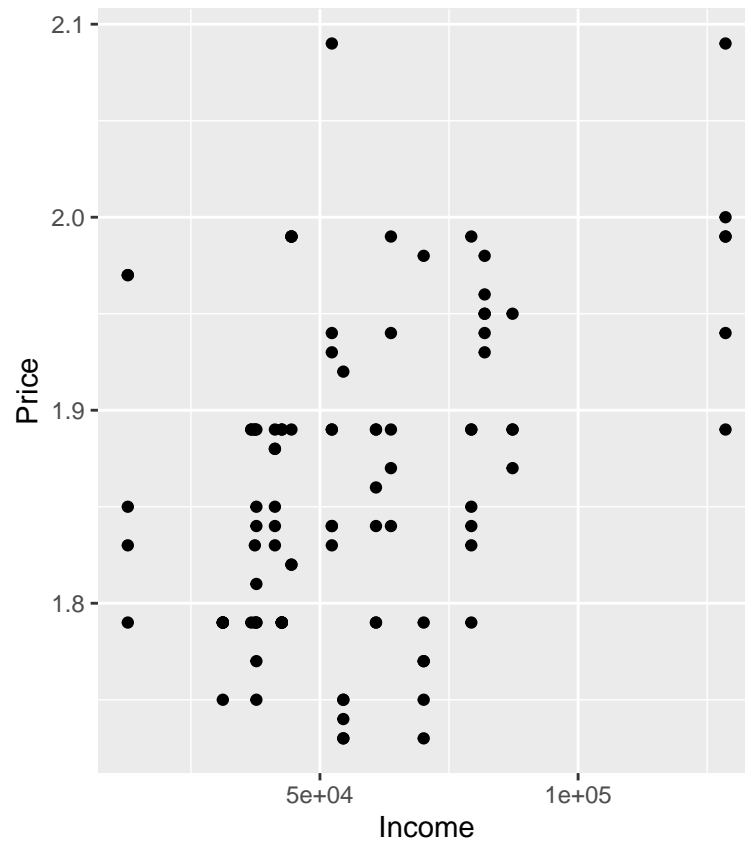


Claim: Gas stations charge more if they lack direct competition in sight

Conclusion: The theory is supported by the data. As the left box is higher than the right box.

(B) The richer the area, the higher the gas price (scatter plot).

```
p0 = ggplot(data=gasprice) +  
  geom_point(aes(x=Income, y=Price))  
p0
```



Claim: Gas stations charge more if they lack direct competition in sight

Conclusion: The theory is supported by the data. As the left box is higher than the right box.