

EDA - Assignment2

Jivitesh Poojary

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Answer 1

Q1. After reading the data into R, use `gather()` to convert it to “long form”. (You don’t need to write anything up for the question, just give the code.)

Code Provided.

```
##
## Attaching package: 'dplyr'

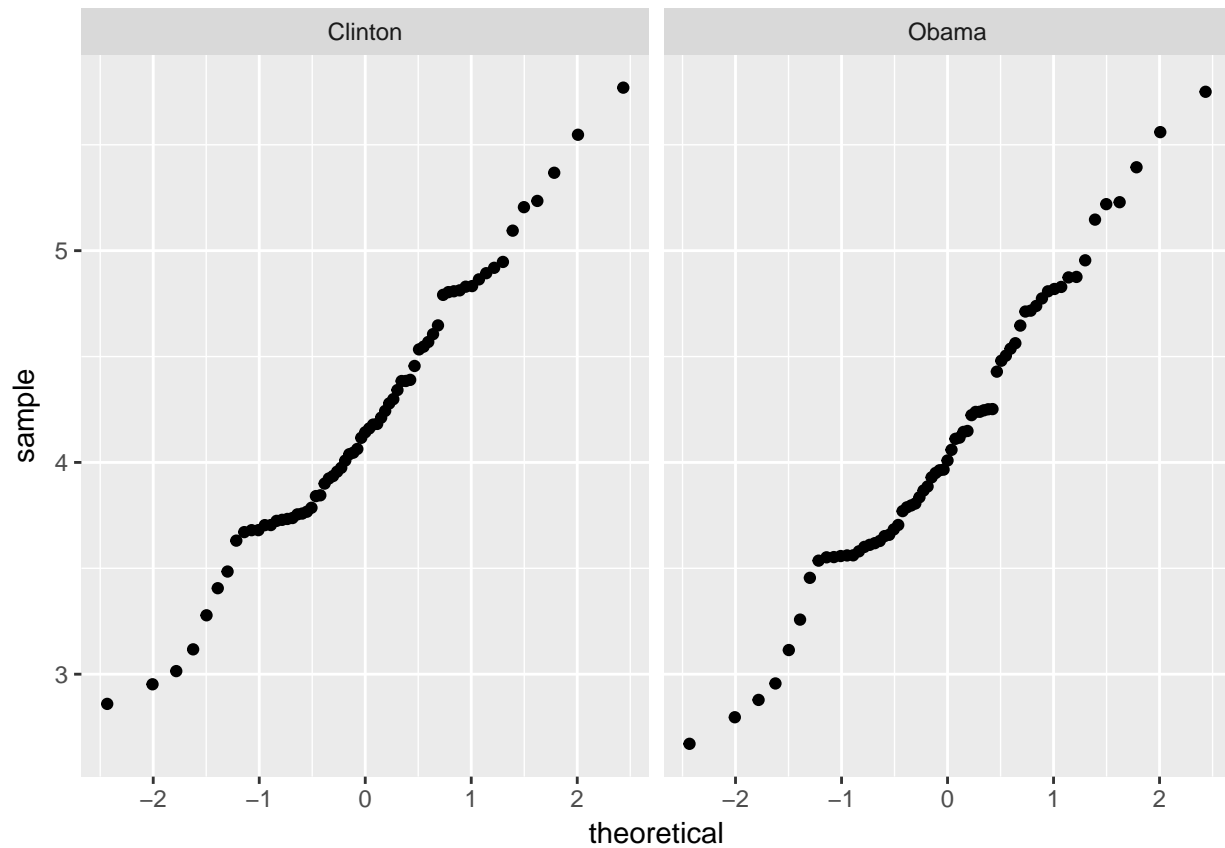
## The following objects are masked from 'package:stats':
##
##   filter, lag

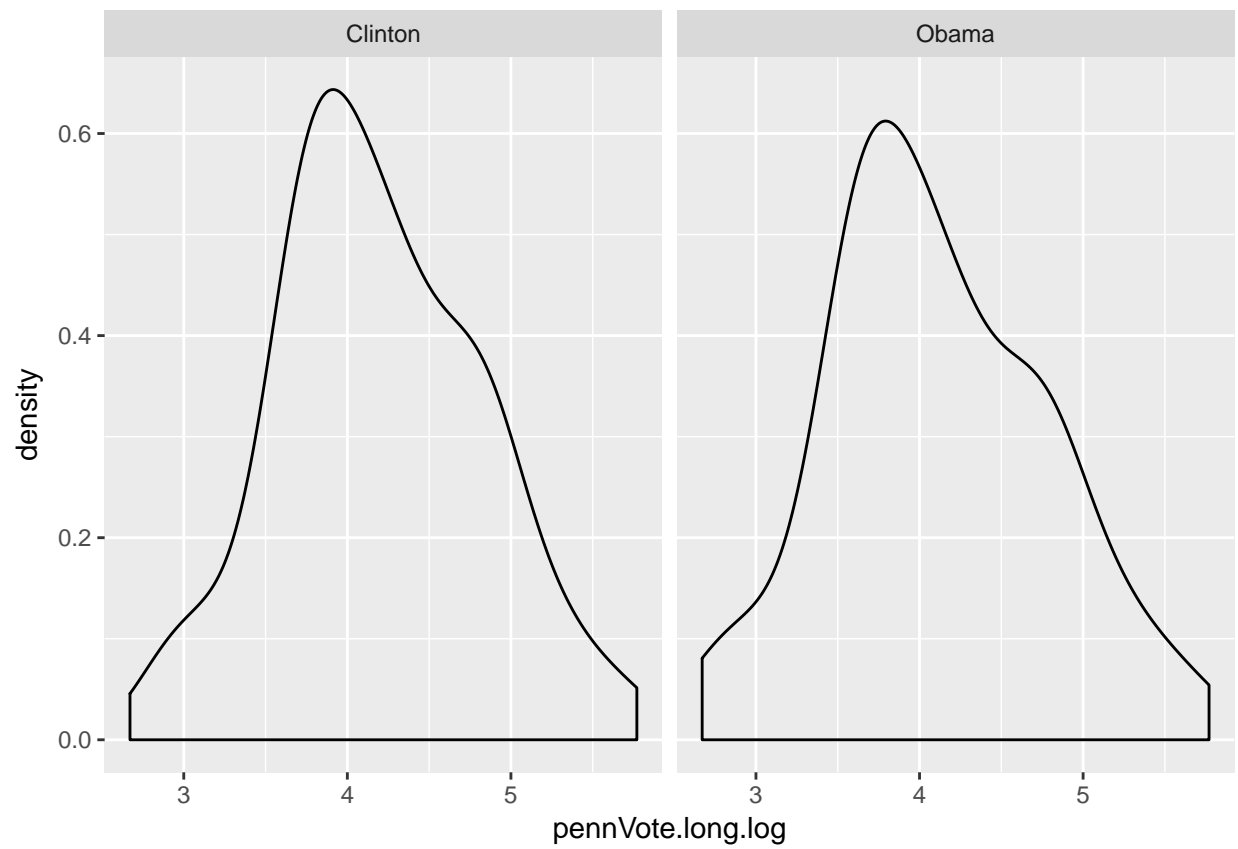
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

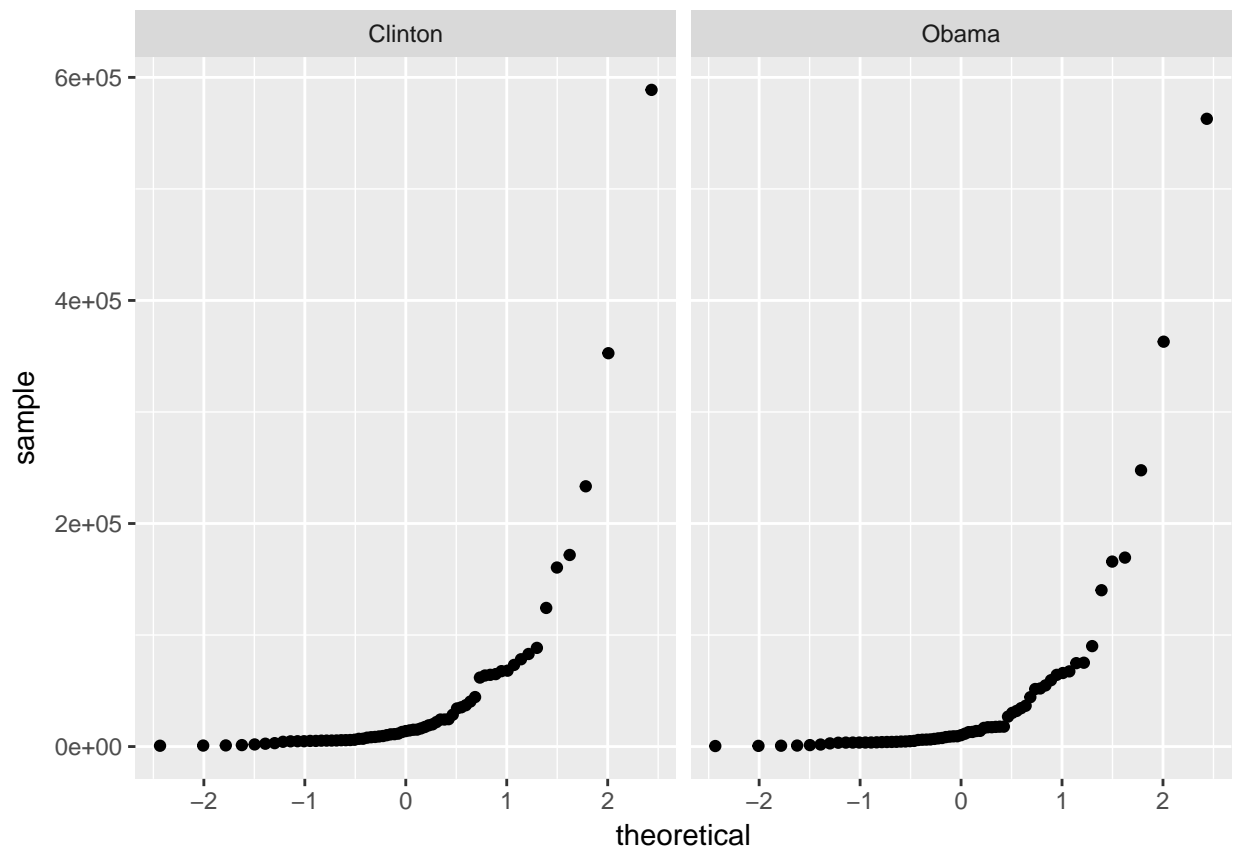
Answer 2

Q2. Use `ggplot()` to reproduce this normal QQ plot of the `log_10` transformed data, and explain what it tells you:

The log transformation changes the skewness to a more symmetric distribution rendering a simplified structure. The two plots are similar in distribution. The plots obtained do not follow a normal distribution. We can say that they may be a case of over transformation as we are getting a slightly 'S' shaped curve.







Answer 3

Q3. Does it look like the relationship between Clinton's vote and Obama's vote is (i) additive, (ii) multiplicative, or (iii) more complicated? Justify your answer. (You'll need to draw further graphs to answer this question; include one or two of them in your answer.)

The plot obtained without transformation is not normal.

