Assignment Report

牟金明 19171213839

2019.10.05

1 Assignment1

Requirment:Reproduce plots 2 a,c and 3 a,c.
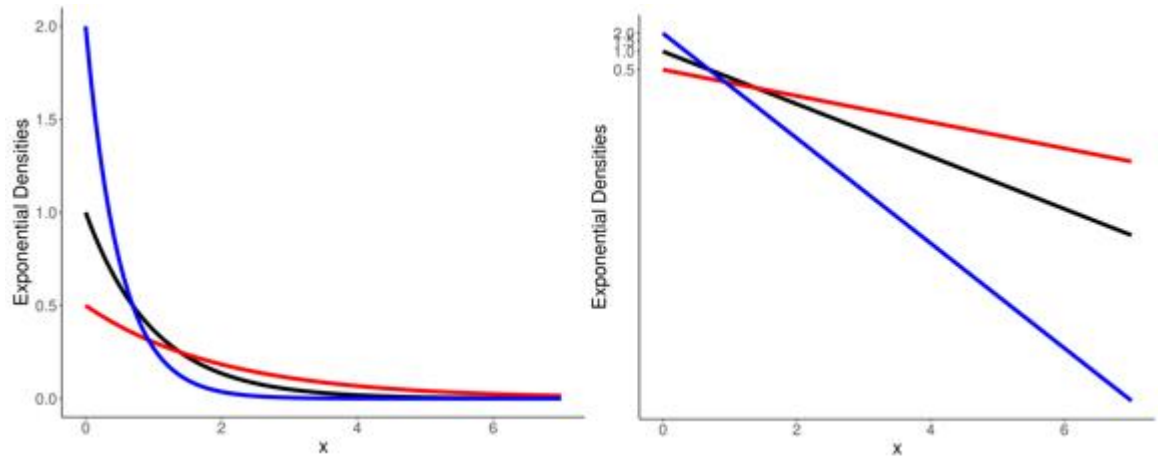Results are shown in Figure1 and Figure2.

图 1: Exponential Densities and Semilog

2 Assignment2

Requirment:Improve these plots further using ggplot2 and the melt function;take due care of legends.
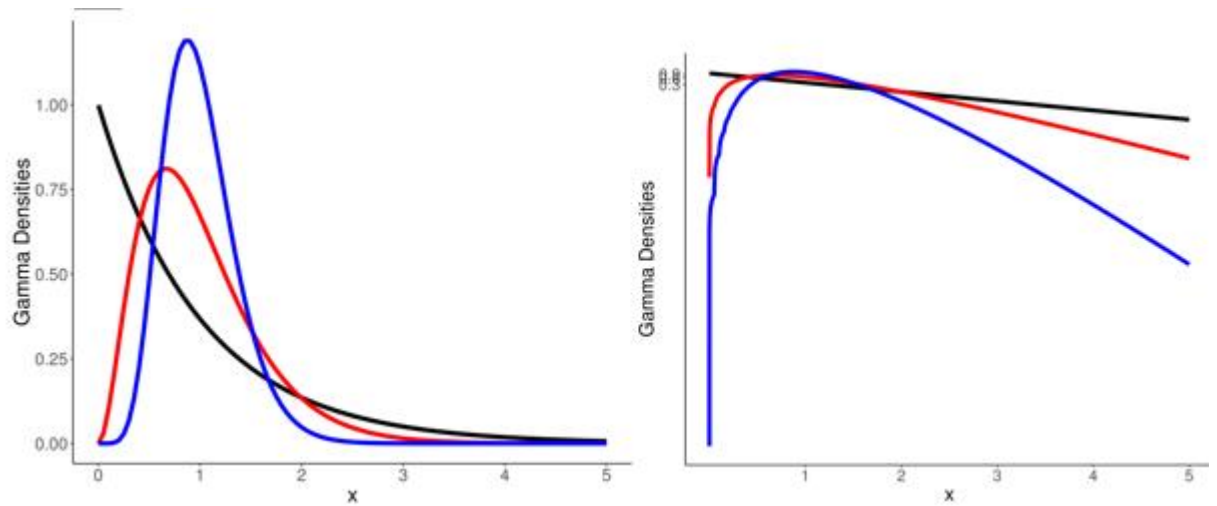
Results are shown in Figure3 and Figure4.

图 2: Gamma Densities and Semilog

3   Assignment3

Requirment:Plot densities of the K and G0 distributions.

Results are shown in Figure5 and Figure6.

4   Assignment4

Requirment:Select a sample from either urban or forest from the image shown in Fig. 3.4, and repeat the analysis presented in class.

I chose urban area to analyze and the size of the example is 100*100.The example is shown in Figure7.

          HH
Min. : 5
1st Qu.: 49397
Median : 139494
Mean : 486161
3rd Qu.: 382280
Max. :34400251
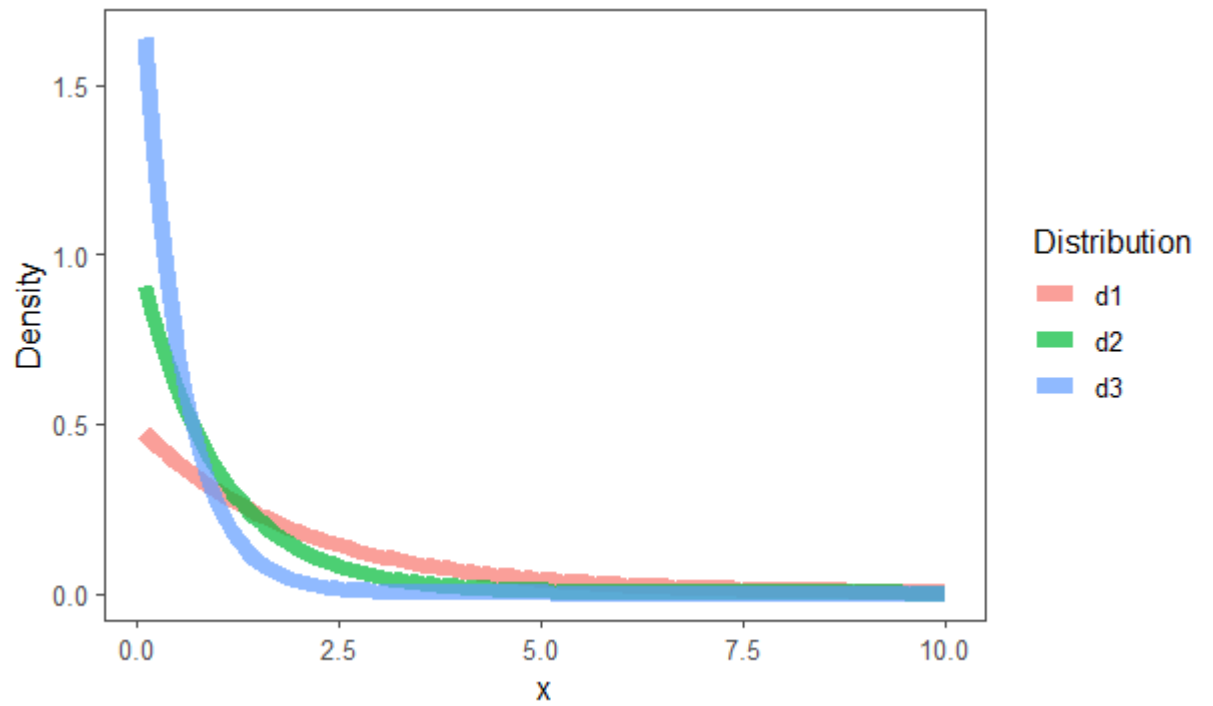The histogram shows in Figure8.

图 3: Exponential Densities

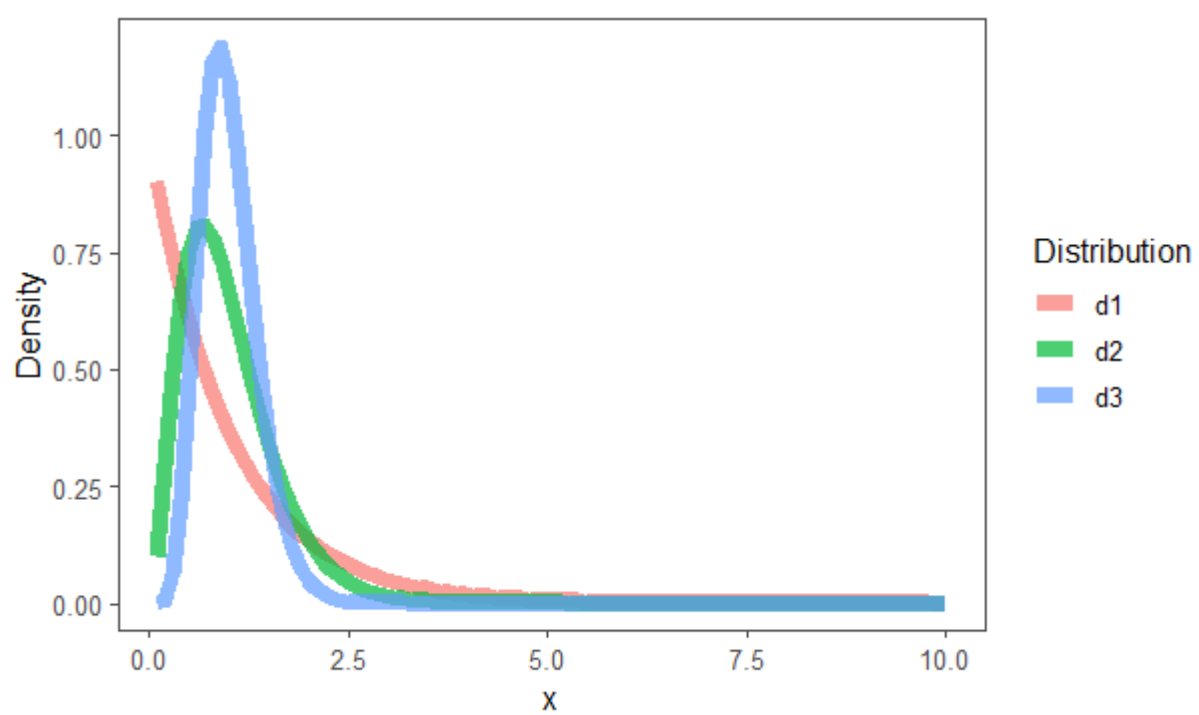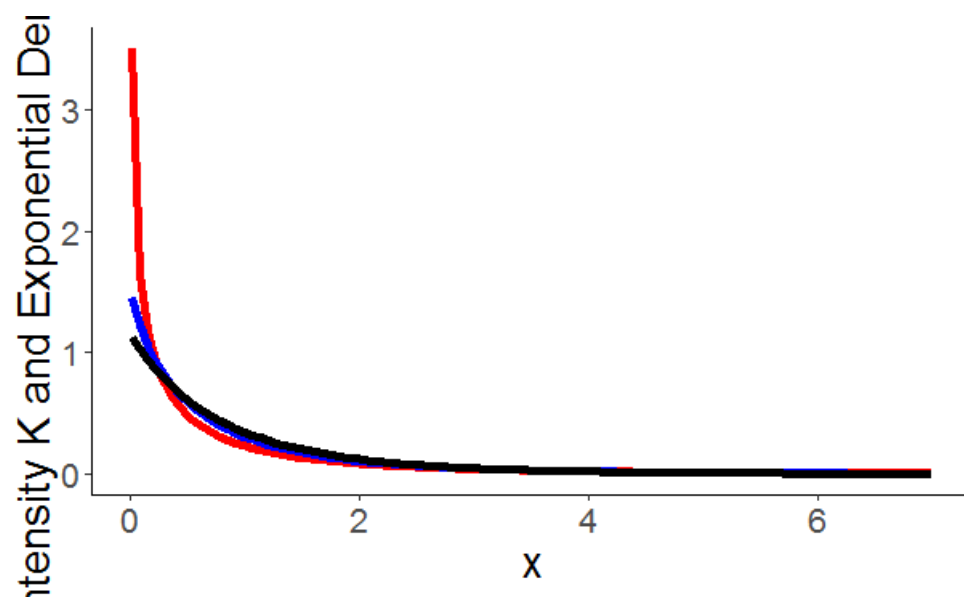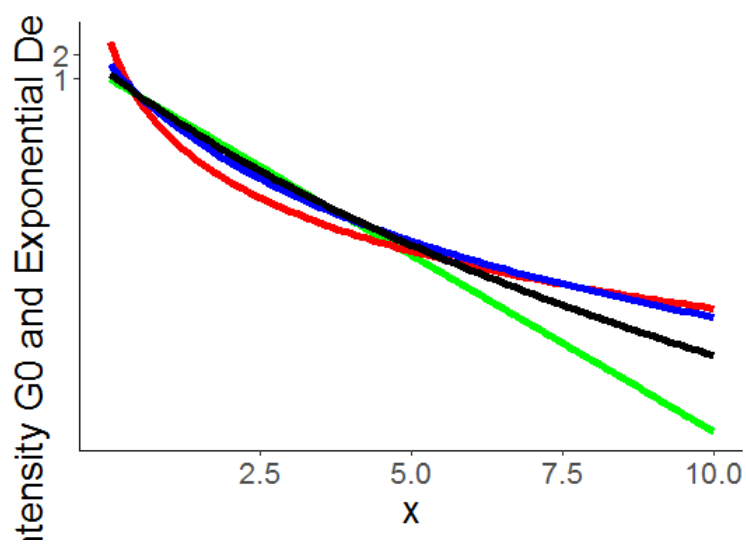And the result of LogLikelihood is -3.866783e+00 1.080319e+06

图 4: Gamma Densities

图 5: K distribution

图 6: G0 distribution

图 7: Urban area

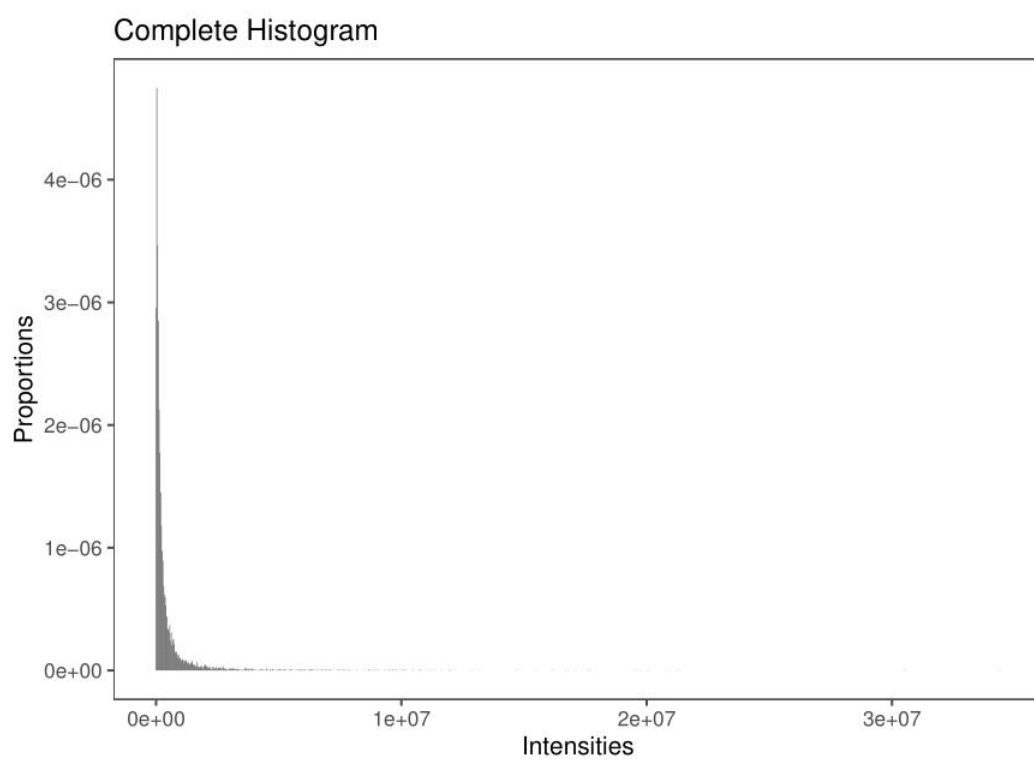图 8: Histogram