

PSQF 4143: Section 2 Supplemental

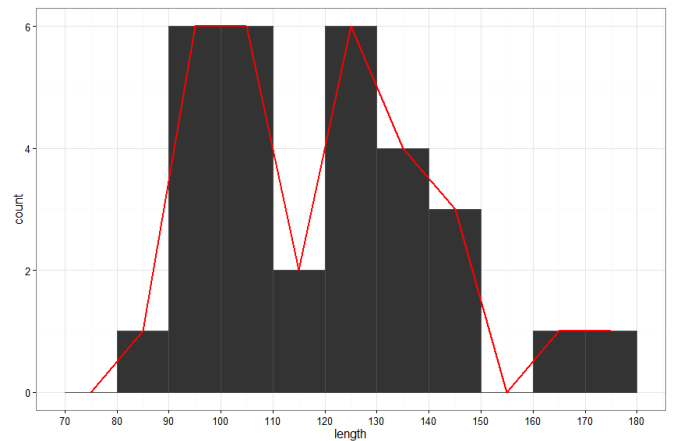
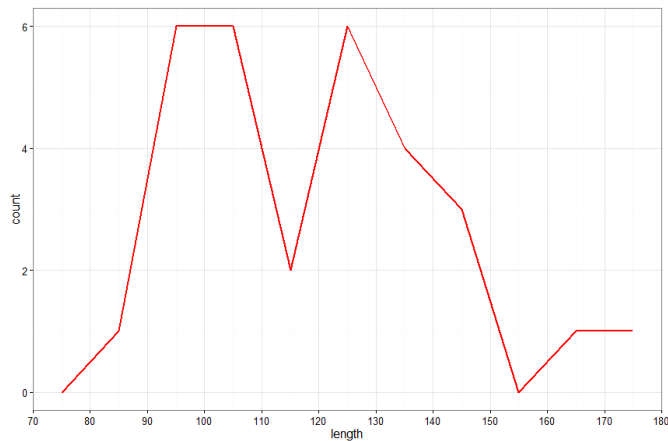
Brandon LeBeau

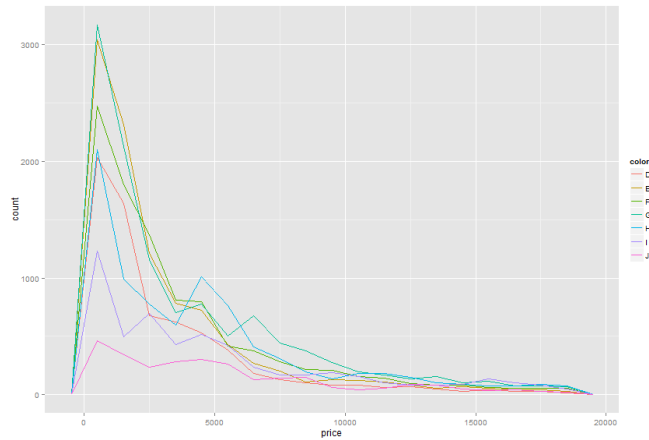
Frequency Polygons

- Similar to a histogram, but the frequency are plotted above the midpoint of each interval.
- The midpoint is the middle of the interval taking into account the real limits.

$$- mid = X_{ll} + \frac{(X_{ul} - X_{ll})}{2}$$

##	Var1	Freq	midpoint
## 1	[80,90)	1	84.5
## 2	[90,100)	6	94.5
## 3	[100,110)	6	104.5
## 4	[110,120)	2	114.5
## 5	[120,130)	6	124.5
## 6	[130,140)	4	134.5
## 7	[140,150)	3	144.5
## 8	[150,160)	0	154.5
## 9	[160,170)	1	164.5
## 10	[170,180)	1	174.5





Stem and Leaf

- The leaf is the last digit of the number
- The stem is everything except for the last digit.

```
##
## The decimal point is 1 digit(s) to the right of the |
##
##  8 | 6
##  9 | 257899
## 10 | 048899
## 11 | 03
## 12 | 001347
## 13 | 2226
## 14 | 013
## 15 |
## 16 | 2
## 17 | 0
```