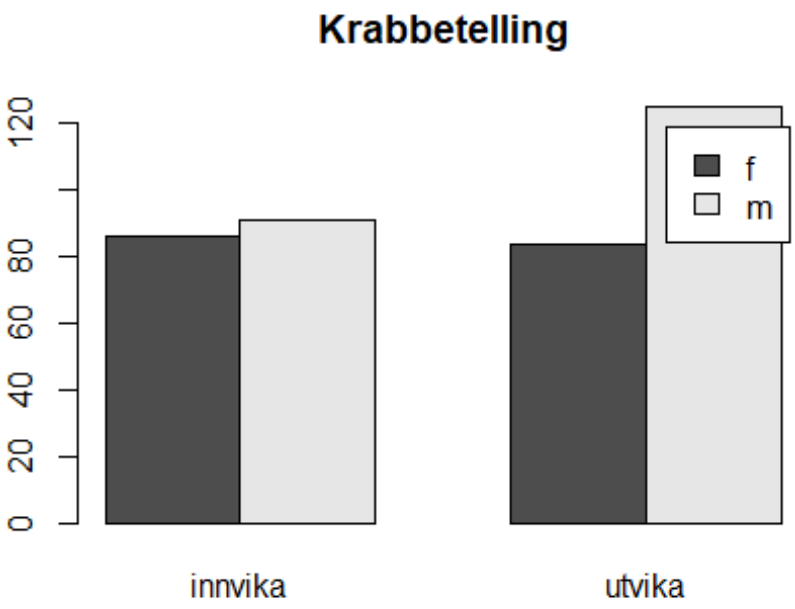
oving1.R

Kasper

2021-09-13

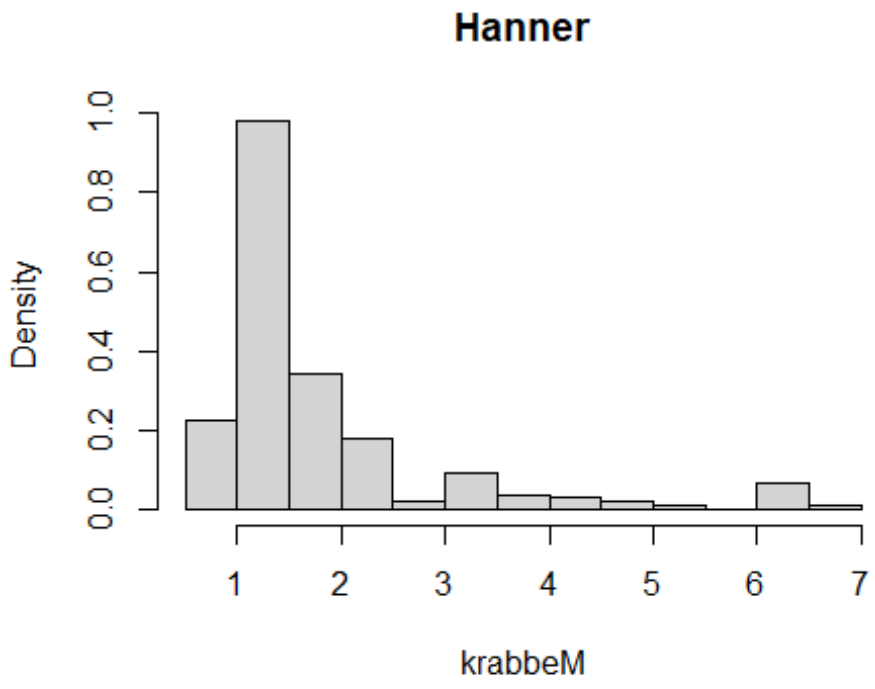
Del 2:

```
#Les in krabbedate
library("readxl")
krabber <- read_excel("krabbe.xlsx")

#Kontigenstabell krabber
telling <- table(krabber$Gender, krabber$Location)

#Stolpediagram krabber
barplot(
  telling, beside = TRUE, main = "Krabbetelling", sub = "Krabbetelling", lege
nd = c("f", "m")
  )
```

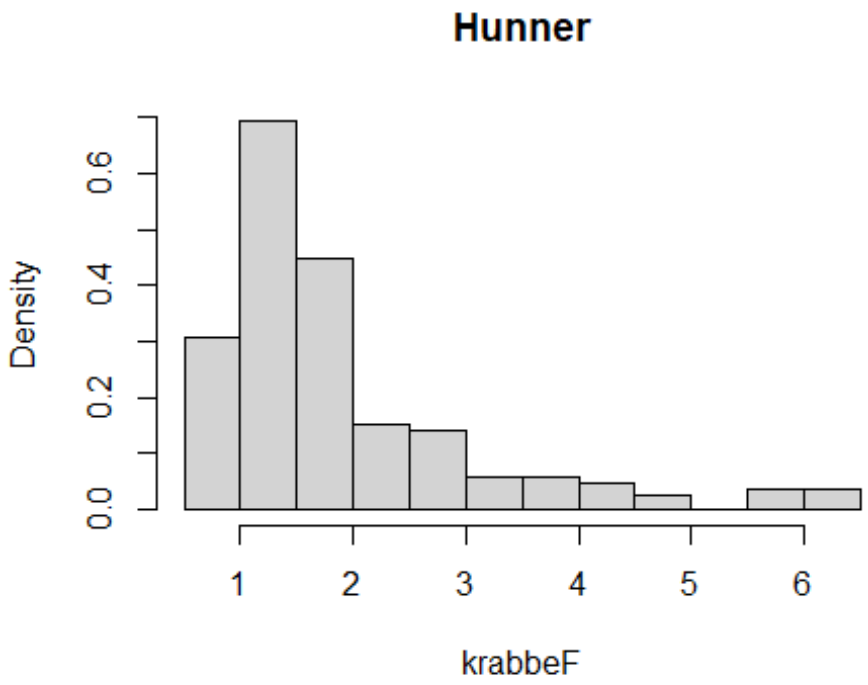



```
#Konstruere krabbeM og krabbeF vektor
Gender <- krabber$Gender
Size <- krabber$Size
TypeM <- Gender == "m"
```

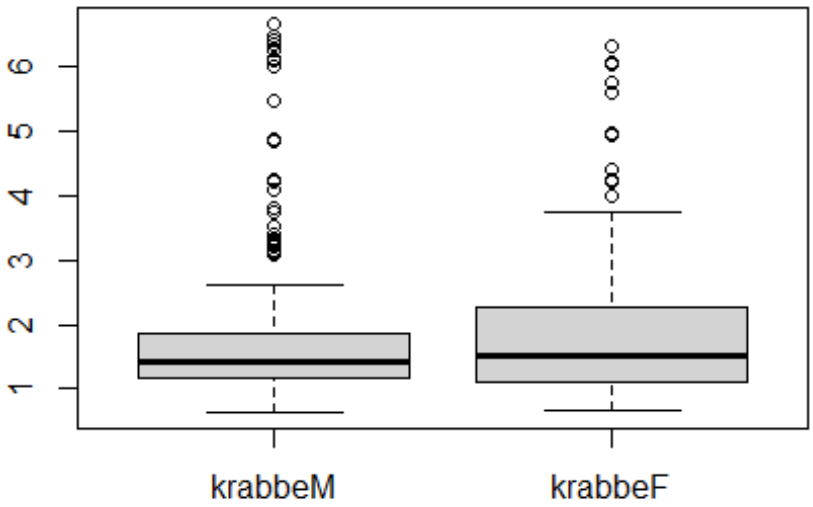
```r
krabbeM <- Size[TypeM]
TypeF <- Gender == "f"
krabbeF <- Size[TypeF]

#Kvantitativ oppsummering av data
summary(krabbeM)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.6378  1.1565  1.4134  1.8077  1.8469  6.6659

summary(krabbeF)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.6675  1.1193  1.4997  1.8728  2.2506  6.3114

#Kvantitativ oppsummering av data i mm
krabbeM.mm <- krabbeM * 10
summary(krabbeM.mm)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   6.378  11.565  14.134  18.077  18.469  66.659

# Skalert Histogram
hist(krabbeM, freq = FALSE, breaks = 10, main = "Hanner")
```



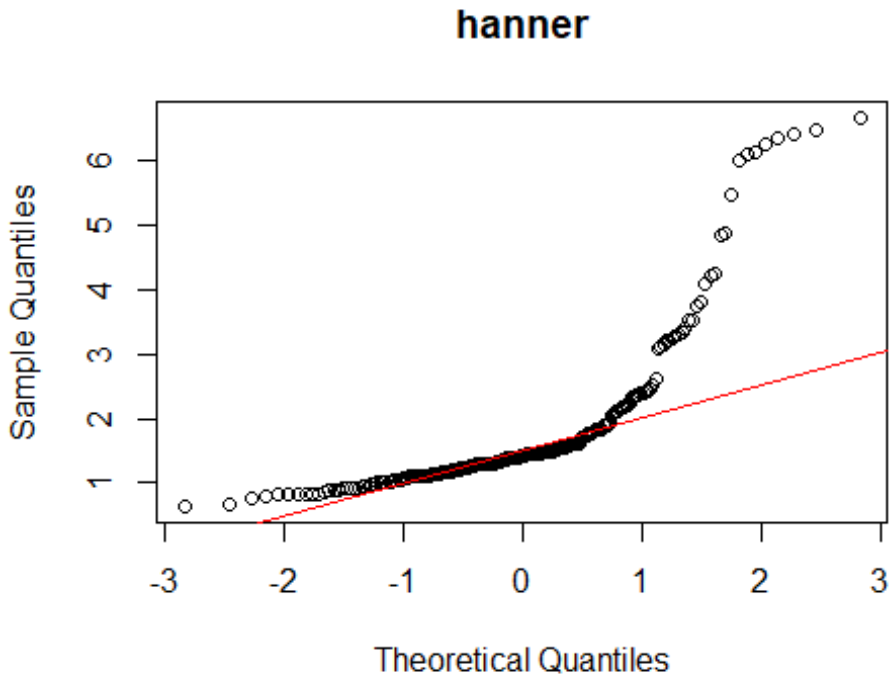

```r
hist(krabbeF, freq = FALSE, breaks = 10, main = "Hunner")
```




```r
# Boxplot
boxplot(krabbeM, krabbeF, names = c("krabbeM", "krabbeF"))
```



```r
# normalplott:
qqnorm(krabbeM, main = "hanner")
qqline(krabbeM, col = "red")
```



Del 3:

1.

Mean in cm: 1.8077

Mean in mm: 1.8077 * 10 = <u>18.077</u>

2.

IQR = Q_3 – Q_1

IQR_hann = 1.8469 – 1.1565 = <u>0.6904</u>

IQR_hunn = 2.2506 – 1.1193 = <u>1.1313</u>

3.

Ulik spredning men ganske likt sentrum.

4.

Verdiene ser ikke normalfordelte ut siden dataene fordeler seg mot venstre og legger seg skrått mot høgre i histogrammet. Blir lite bjelleforming her. I normalplottet blir heller ikke dataene likt fordelt inn mot sentrum.