Final\_prj\_exploration

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knitr::opts\_chunk$set(echo = TRUE)  
rm(list=ls())  
library(ggplot2)  
bulltrout=read.csv("BLT\_2018\_timespent.csv",header=TRUE)  
View(bulltrout)  
names(bulltrout)

## [1] "ï..FishID" "Arm.1"   
## [3] "Arm.2" "Total.Time.in.Both.Arms"  
## [5] "Trm1" "Trm2"

length(bulltrout$ï..FishID)

## [1] 227

class(bulltrout$ï..FishID)

## [1] "character"

class(bulltrout$Arm.1)

## [1] "numeric"

class(bulltrout$Arm.2)

## [1] "numeric"

class(bulltrout$Total.Time.in.Both.Arms)

## [1] "numeric"

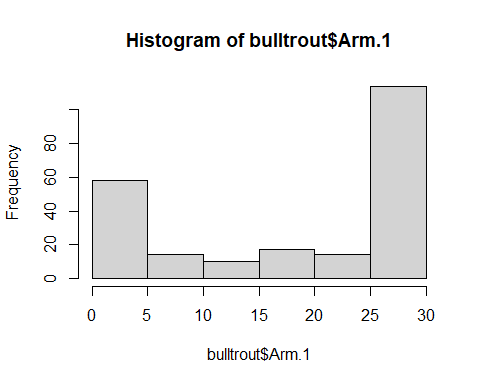
class(bulltrout$Trm1)

## [1] "character"

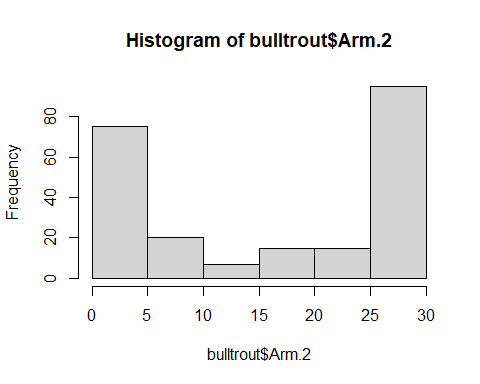
class(bulltrout$Trm2)

## [1] "character"

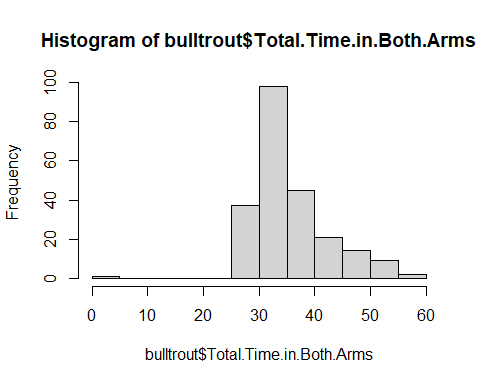
hist(bulltrout$Arm.1)



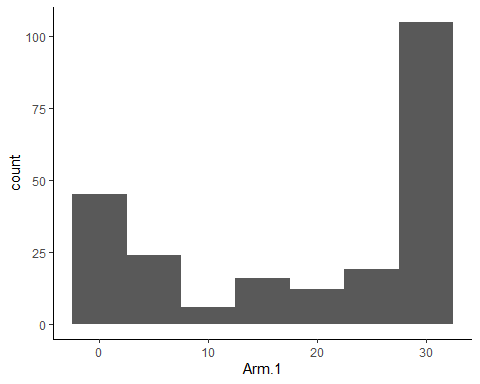
hist(bulltrout$Arm.2)



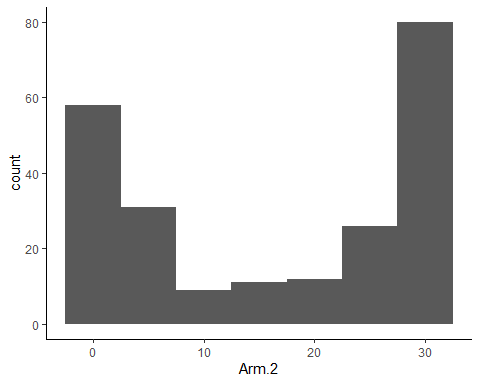
hist(bulltrout$Total.Time.in.Both.Arms)



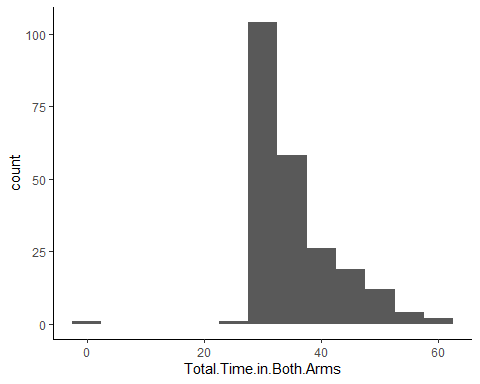
ggplot(bulltrout,aes(x=Arm.1))+geom\_histogram(binwidth=5)+theme\_classic()



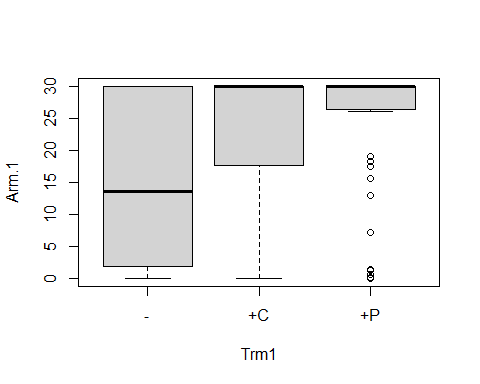
ggplot(bulltrout,aes(x=Arm.2))+geom\_histogram(binwidth=5)+theme\_classic()



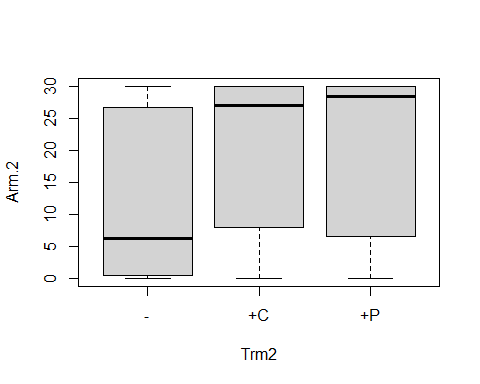
ggplot(bulltrout,aes(x=Total.Time.in.Both.Arms))+geom\_histogram(binwidth=5)+theme\_classic()



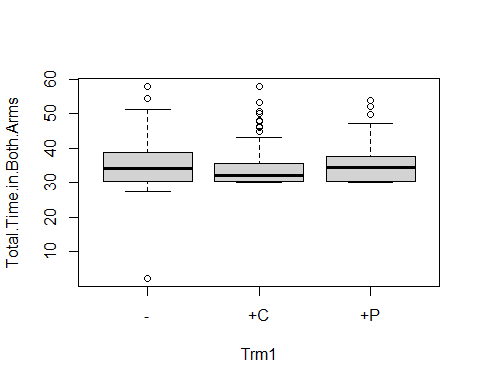
boxplot(Arm.1~Trm1,data=bulltrout)



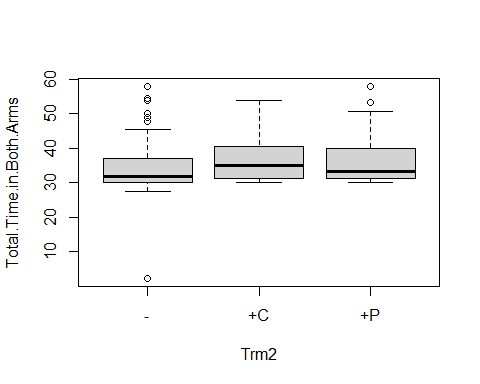
boxplot(Arm.2~Trm2,data=bulltrout)



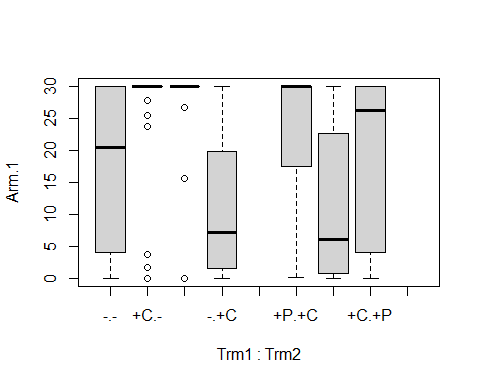
boxplot(Total.Time.in.Both.Arms~Trm1,data=bulltrout)



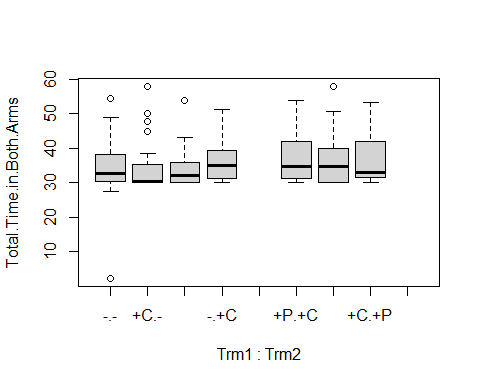
boxplot(Total.Time.in.Both.Arms~Trm2,data=bulltrout)



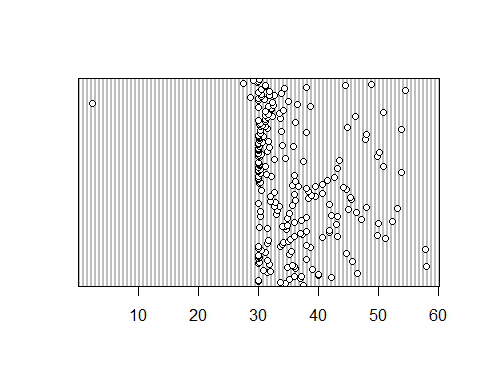
boxplot(Arm.1~Trm1+Trm2,data=bulltrout)



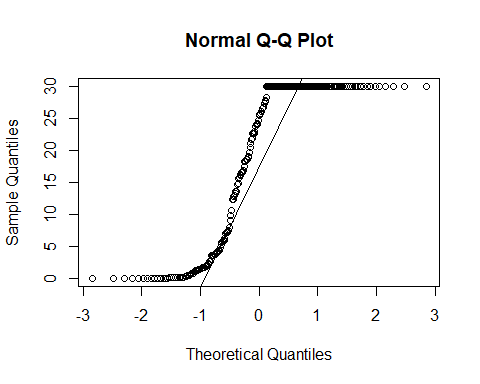
boxplot(Total.Time.in.Both.Arms~Trm1+Trm2,data=bulltrout)



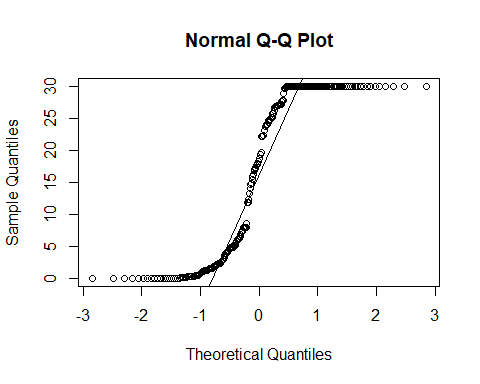
dotchart(bulltrout$Total.Time.in.Both.Arms)



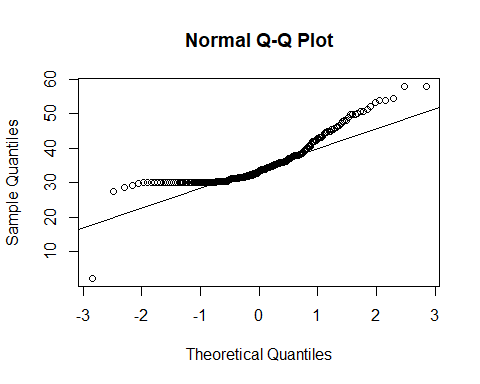
qqnorm(bulltrout$Arm.1)  
qqline(bulltrout$Arm.1)



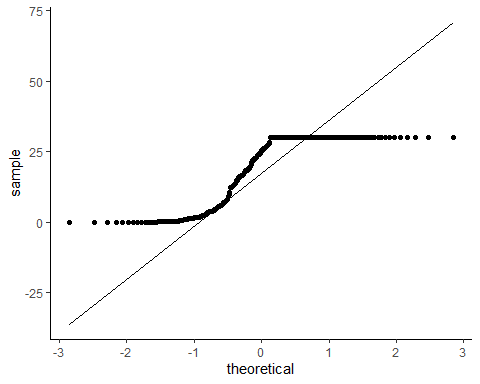
qqnorm(bulltrout$Arm.2)  
qqline(bulltrout$Arm.2)



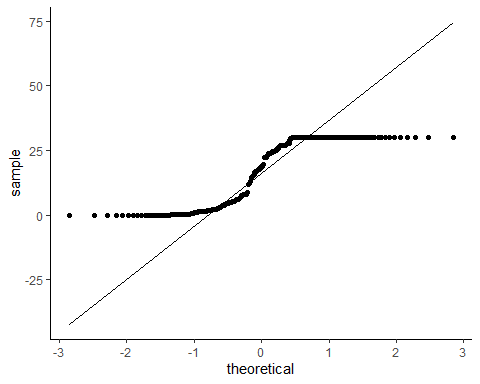
qqnorm(bulltrout$Total.Time.in.Both.Arms)  
qqline(bulltrout$Total.Time.in.Both.Arms)



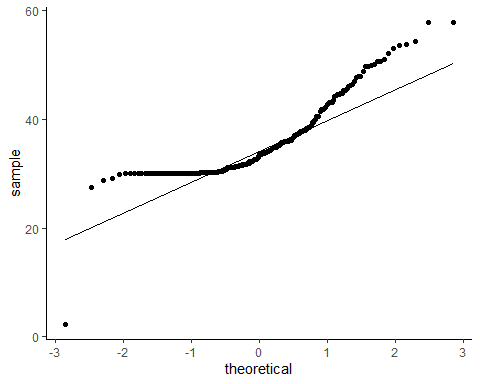
ggplot(bulltrout)+geom\_qq(aes(sample=Arm.1))+theme\_classic()+geom\_qq\_line(aes(sample=Arm.1))



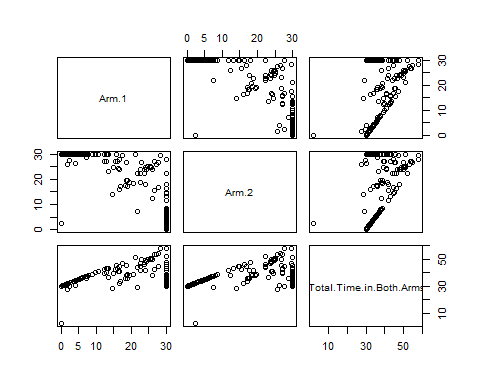
ggplot(bulltrout)+geom\_qq(aes(sample=Arm.2))+theme\_classic()+geom\_qq\_line(aes(sample=Arm.2))



ggplot(bulltrout)+geom\_qq(aes(sample=Total.Time.in.Both.Arms))+theme\_classic()+geom\_qq\_line(aes(sample=Total.Time.in.Both.Arms))



pairs(bulltrout[,2:4])



library(GGally)

## Registered S3 method overwritten by 'GGally':  
## method from   
## +.gg ggplot2

ggpairs(bulltrout[,2:4])

