## BSTT562 Project I

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```
rm(list = ls())
library(ggplot2)
library(data.table)
# read data from github
data <- read.csv('https://raw.githubusercontent.com/yuebanfengqing/BSTT-562/master/data.csv', sep = ','
## transform data from wide to long
zero <- data[,3]
twenty <- data[,4]</pre>
hundred <- data[,5]</pre>
con1 <- cbind(data[,1:2], zero)</pre>
con1$Concentration <- rep(0, 25)</pre>
colnames(con1)[3] <- 'Real'</pre>
con2 <- cbind(data[,1:2], twenty)</pre>
con2$Concentration <- rep(20, 25)</pre>
colnames(con2)[3] <- 'Real'</pre>
con3 <- cbind(data[,1:2], hundred)</pre>
con3$Concentration <- rep(100, 25)
colnames(con3)[3] <- 'Real'</pre>
p1.data <- rbind(con1, con2, con3)
head(p1.data)
     Lab Rep Real Concentration
## 1 1 1-3.00
## 2 1 2 4.00
                                 0
## 3 1 3 -4.00
                                0
## 4 1 4 3.00
## 5 1 5 3.10
                                0
```

## Abstract

## 6 2 1 -0.06