

Summary Stats on STAT 440 Kaggle Module 1

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Dependencies

```
library(tidyverse)
library(xtable)
```

Importing Data

```
base = read.delim(file = 'baseline.txt', header = T, sep = ',')
summary(base)
```

```
##           Id           duration
## Min.      : 1.00    Min.      :3.94
## 1st Qu.: 50.75    1st Qu.:3.94
## Median :100.50    Median :3.94
## Mean     :100.50    Mean     :3.94
## 3rd Qu.:150.25    3rd Qu.:3.94
## Max.     :200.00    Max.      :3.94
```

```
str(base)
```

```
## 'data.frame':    200 obs. of  2 variables:
## $ Id           : int  1 2 3 4 5 6 7 8 9 10 ...
## $ duration: num  3.94 3.94 3.94 3.94 3.94 3.94 3.94 3.94 3.94 3.94 ...
```

Not sure what the baseline text file is for.

```

train = read.delim(file = 'train.txt', header = T, sep = ',')
test = read.delim(file = 'test.txt', header = T, sep = ',')
train = mutate( .data = train,
  confirmed = as.Date(x = confirmed, format = "%m.%d.%Y"),
  symptoms = as.factor(symptoms),
  outcome = as.factor(outcome),
  sex = as.factor(sex),
  city = as.factor(city),
  province = as.factor(province),
  country = as.factor(country),
  age = as.numeric(as.factor(age))
)
test = mutate( test,
  confirmed = as.Date(x = confirmed, format = "%m.%d.%Y"),
  symptoms = as.factor(symptoms),
  sex = as.factor(sex),
  city = as.factor(city),
  province = as.factor(province),
  country = as.factor(country),
  age = as.numeric(as.factor(age))
)
summary(train)

```

```

##      age      sex      city      province      country      V1      confirmed
## Min.   : 1.0    0d2dc: 1   98444 : 36   56888 : 32   55b87 :130   Length:219   Min.   :202
## 1st Qu.:24.0   18d60: 2   de0cb : 14   0acea : 24   2d394 : 32   Class :character   1st Qu.:202
## Median :36.0   60846: 3   6498e : 12   5dfd3 : 19   867cc : 27   Mode  :character   Median :202
## Mean   :35.6   6a50b: 92  bff0e : 10   0b8ad : 15   94e65 : 9      Mean   :202
## 3rd Qu.:48.5   8ef1a:121  5b9f8 : 6    e9491 : 15   8ce1f : 7      3rd Qu.:202
## Max.   :70.0           3dd07 : 5    d6364 : 13   348dd : 3      Max.   :202
##                                (Other):136  (Other):101  (Other): 11   NA's   :146
##      duration
## Min.   : 0.000
## 1st Qu.: 1.000
## Median : 3.000
## Mean   : 4.584
## 3rd Qu.: 7.000
## Max.   :32.000
##

```

```
summary(test)
```

```

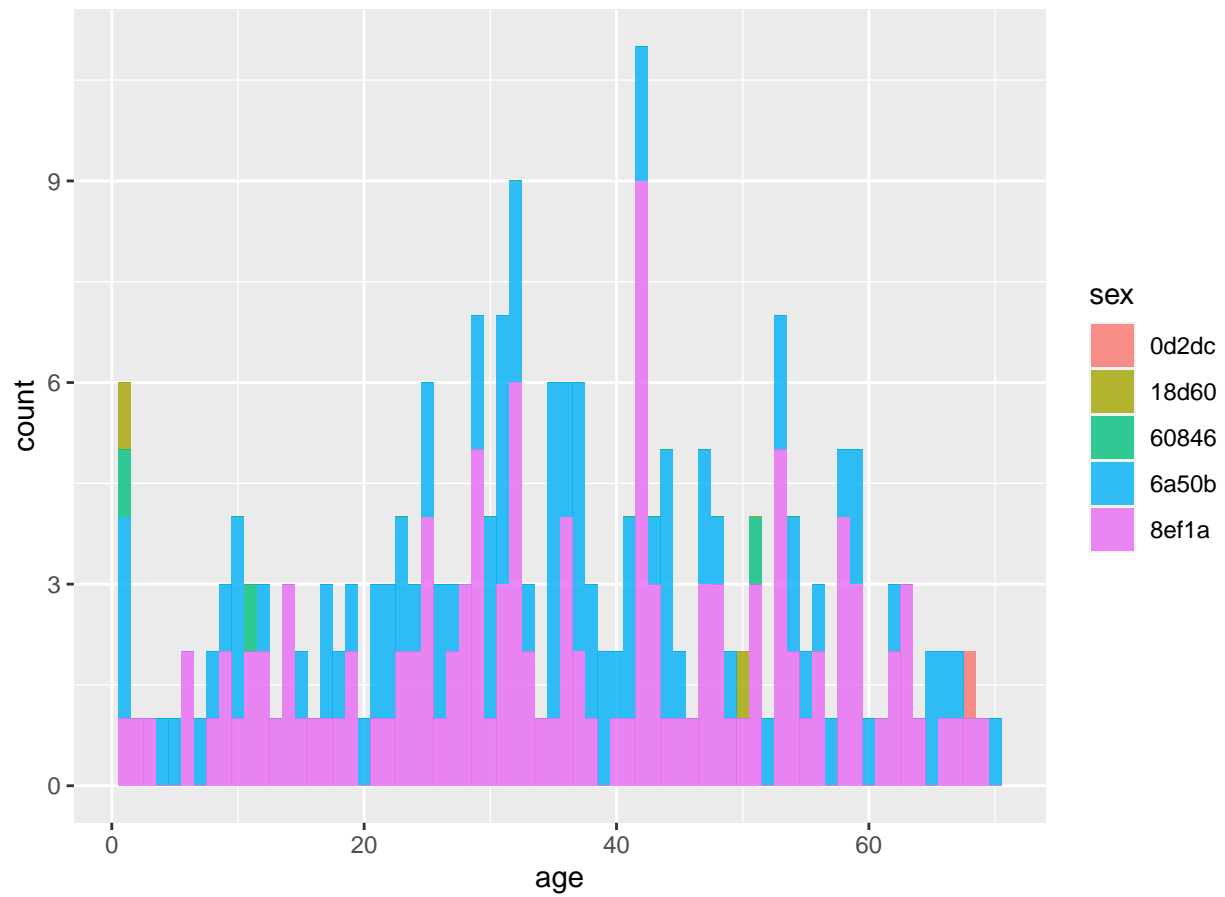
##      Id      age      sex      city      province      country      V1
## Min.   : 1.00   Min.   : 1.00   0d2dc: 2   98444 : 31   56888 :35   55b87 :122   Length:200
## 1st Qu.: 50.75   1st Qu.:18.00   18d60: 1   6498e : 12   0b8ad :22   867cc : 32   Class :charac
## Median :100.50   Median :31.00   60846: 1   3dd07 : 9    5dfd3 :22   2d394 : 23   Mode  :charac
## Mean   :100.50   Mean   :31.89   6a50b: 81  de0cb : 9    0acea :21   94e65 : 8
## 3rd Qu.:150.25   3rd Qu.:44.00   8ef1a:115  bff0e : 8    e9491 :20   8ce1f : 4
## Max.   :200.00   Max.   :65.00           533b8 : 6    d6364 :12   348dd : 3
##                                (Other):125  (Other):68   (Other): 8
##      duration
## Min.   : 0.00

```

```
## 1st Qu.: 1.00
## Median : 3.00
## Mean   : 3.94
## 3rd Qu.: 6.00
## Max.    :26.00
##
```

Some Plots

Histogram of Population Ages



Scatterplot of Population (Training) age to duration of case

