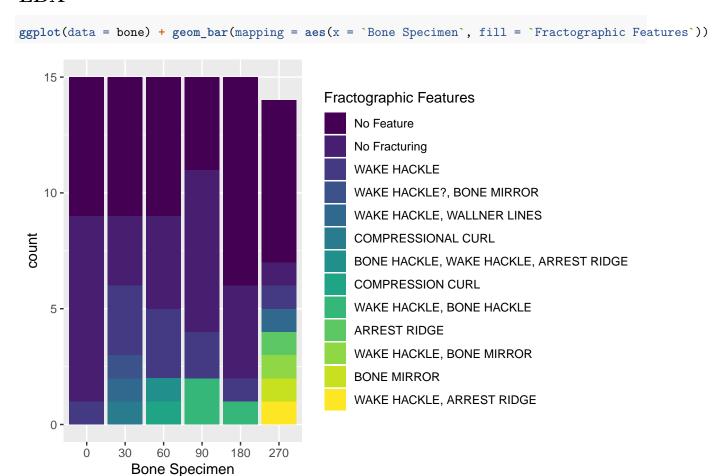
## inital EDA

He Guo 2/7/2020

## EDA



## Models

```
fit1<-glm(bone$`Bisecting Fracture`~bone$days,family = binomial())</pre>
fit2<-glm(bone$`Fracture-like`~bone$days,family = binomial())</pre>
summary(fit1)
##
## Call:
## glm(formula = bone$`Bisecting Fracture` ~ bone$days, family = binomial())
##
## Deviance Residuals:
##
       Min
                 1Q Median
                                    3Q
                                            Max
## -1.3753 -1.2920
                     0.9917
                               1.0670
                                         1.1187
```

```
##
## Coefficients:
##
              Estimate Std. Error z value Pr(>|z|)
## (Intercept) 0.07685
                          0.48625
                                    0.158
                                             0.874
## bone$days
               0.06285
                          0.12664
                                    0.496
                                             0.620
##
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 121.47 on 88 degrees of freedom
## Residual deviance: 121.23 on 87 degrees of freedom
## AIC: 125.23
## Number of Fisher Scoring iterations: 4
summary(fit2)
##
## Call:
## glm(formula = bone$`Fracture-like` ~ bone$days, family = binomial())
##
## Deviance Residuals:
      Min
               1Q
                    Median
                                  3Q
                                          Max
## -1.8587 -1.2733
                    0.7036 0.8810
                                       1.0844
##
## Coefficients:
              Estimate Std. Error z value Pr(>|z|)
## (Intercept) -0.03916
                          0.51010 -0.077
                                            0.9388
## bone$days
             0.26179
                          0.14229
                                   1.840
                                            0.0658 .
## ---
## Signif. codes: 0 '***' 0.001 '**' 0.05 '.' 0.1 ' ' 1
## (Dispersion parameter for binomial family taken to be 1)
##
      Null deviance: 109.24 on 88 degrees of freedom
## Residual deviance: 105.69 on 87 degrees of freedom
## AIC: 109.69
## Number of Fisher Scoring iterations: 4
```