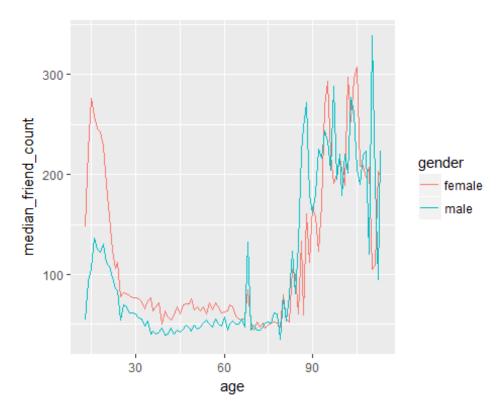
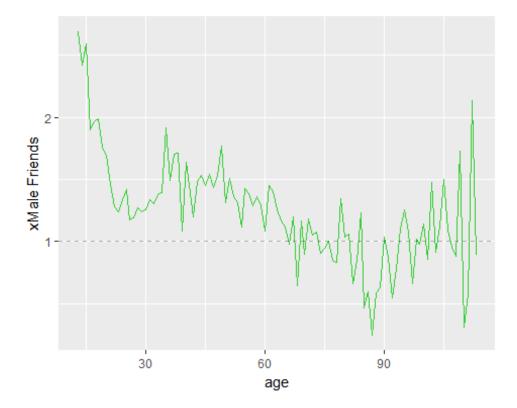
Facebook3Var



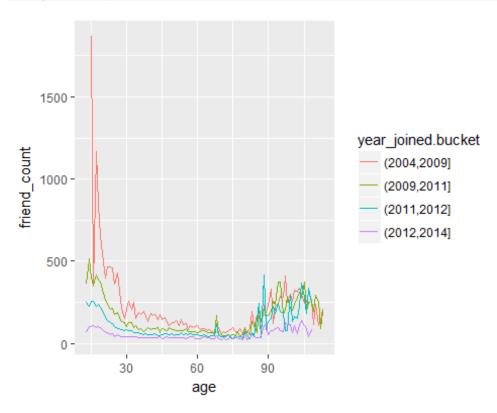


```
#Creating a variable year joined by subtracting tenure(days) from date of
sample (2014)
pf$year_joined <- floor(2014 - (pf$tenure/365))</pre>
summary(pf$year_joined)
##
                     Median
                               Mean 3rd Qu.
      Min. 1st Qu.
                                                 Max.
                                                         NA's
##
      2005
                       2012
                                        2013
                                                 2014
              2012
                               2012
                                                            2
table(pf$year_joined)
##
##
    2005
          2006
                 2007
                                                2012
                       2008
                             2009
                                    2010
                                          2011
                                                       2013
                                                              2014
##
       9
            15
                  581
                       1507
                             4557
                                    5448
                                          9860 33366 43588
                                                                70
```

```
#Dividing up the years joined with cut function
pf$year_joined.bucket <- cut(pf$year_joined, breaks = c(2004,2009,2011,2012,
2014))
table(pf$year_joined.bucket)

##
## (2004,2009] (2009,2011] (2011,2012] (2012,2014]
## 6669 15308 33366 43658

#Plotting the different lines for each year joined bucket
ggplot(subset(pf, !is.na(pf$year_joined.bucket)), aes(x=age,
y=friend_count))+geom_line(aes(color=year_joined.bucket), stat='summary',
fun.y=median)</pre>
```



```
#Plotting the mean but also adding the grandmean
ggplot(subset(pf, !is.na(pf$year_joined.bucket)), aes(x=age,
y=friend_count))+
  geom_line(aes(color=year_joined.bucket), stat='summary', fun.y=mean)+
  geom_line(stat='summary', fun.y=mean)
```

