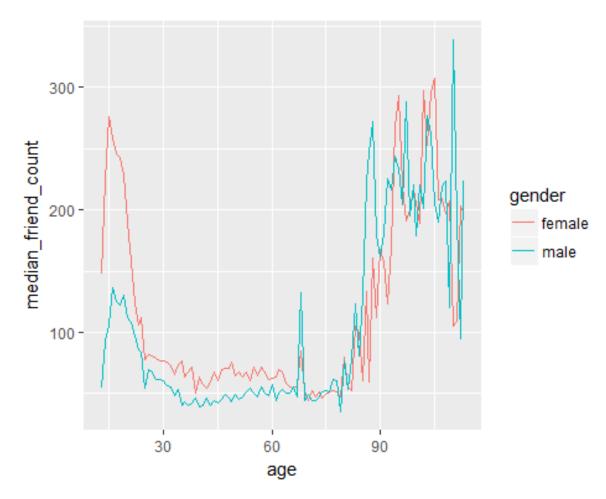
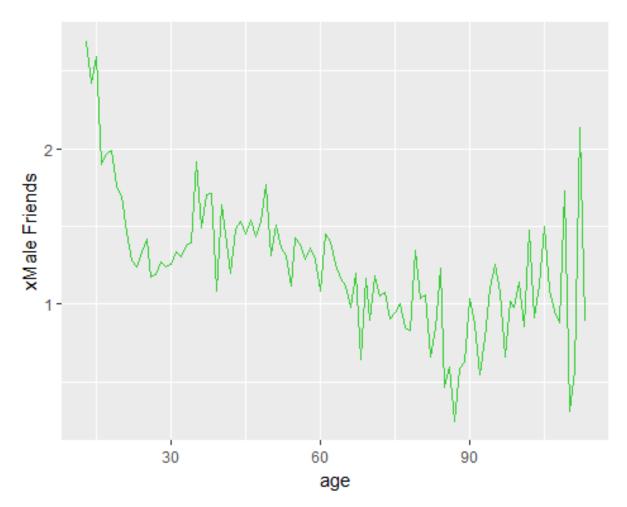
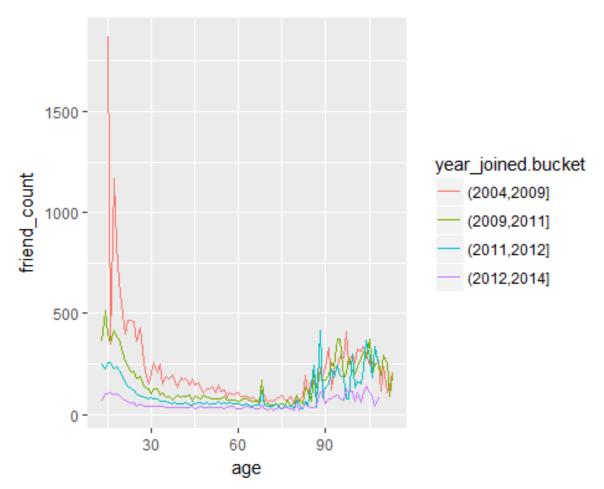
## Facebook3Var





```
#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$year_joined)
      Min. 1st Qu.
                    Median
##
                              Mean 3rd Qu.
                                               Max.
                                                       NA's
##
      2005
              2012
                      2012
                               2012
                                       2013
                                               2014
pf$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
#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)
```



```
#Plotting the mean but also adding the GrandMean (black line)
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)
```

