Handout 15: Plot two lines showing movie ratings over time for popular and niche movies

```
movies$popular <- movies$Genre=="Action" | movies$Genre=="Animation" |</pre>
  movies$Genre=="Comedy" | movies$Genre=="Family" | movies$Genre=="SciFi/Fantasy"
round(summary(lm(movies$TomatoMeter~movies$popular*I(movies$Year-2001)))$coef,3)[,1:2]
##
                                                Estimate Std. Error
                                                                               niche = 50.815 + 0.003*year
## (Intercept)
                                                               1.659
                                                  50.815
                                                                                popular = (50.815-8.246)+(.003+.519)*year
## movies$popularTRUE
                                                  -8.246
                                                               2.099
                                                                                        =42.569+0.522*year
## I(movies$Year - 2001)
                                                   0.003
                                                               0.225
## movies$popularTRUE:I(movies$Year - 2001)
                                                   0.519
                                                               0.288
               58
               57
               56
               54
     predicted tomato meter
               53
               52
               51
               50
                                                                                                                          Niche
               49
               48
                                                                                                                        Popular
               47
               46
               45
               44
               43
               42
                       2001
                                2002
                                        2003
                                                2004
                                                         2005
                                                                 2006
                                                                          2007
                                                                                  2008
                                                                                          2009
                                                                                                   2010
                                                                                                           2011
                                                                                                                   2012
                                                                                                                            2013
```

Name (Print and Sign):