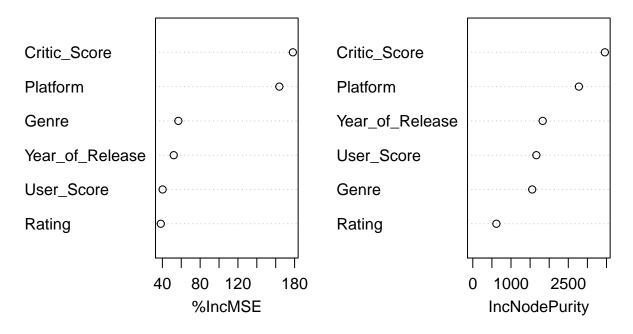
Video Games Sales with Ratings Math 4322 Final Project, Group 24

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```
library(randomForest)
load("~/Desktop/paper.RData")
varImpPlot(rf_full)
```

rf_full



```
summary(lm_full)
```

```
##
## Call:
## lm(formula = log(Global_Sales) ~ Platform + Year_of_Release +
## Genre + Critic_Score + User_Score + Rating, data = data_global)
##
## Residuals:
```

```
10 Median
       Min
                                 3Q
## -4.6119 -0.7323 0.0002 0.7478
                                    5.1099
##
## Coefficients:
##
                        Estimate Std. Error t value Pr(>|t|)
                       -2.229366
## (Intercept)
                                    0.489715
                                              -4.552 5.40e-06 ***
## PlatformDC
                       -1.339017
                                    0.335791
                                              -3.988 6.74e-05 ***
## PlatformDS
                       -0.010175
                                    0.114659
                                              -0.089 0.929292
## PlatformGBA
                       -0.338122
                                    0.135736
                                              -2.491 0.012761 *
## PlatformGC
                       -0.390567
                                    0.128710
                                              -3.034 0.002419 **
## PlatformPC
                       -1.727686
                                    0.107244 -16.110 < 2e-16 ***
## PlatformPS
                         0.024085
                                    0.180352
                                               0.134 0.893766
## PlatformPS2
                                    0.116090
                                               1.846 0.064924
                         0.214312
## PlatformPS3
                                               1.509 0.131371
                         0.157998
                                    0.104710
## PlatformPS4
                         0.174147
                                    0.128087
                                               1.360 0.174002
## PlatformPSP
                       -0.204708
                                    0.117623
                                              -1.740 0.081840
## PlatformPSV
                                              -4.793 1.67e-06 ***
                       -0.665467
                                    0.138827
## PlatformWii
                                    0.113069
                                               3.651 0.000264 ***
                         0.412782
## PlatformWiiU
                                    0.151619
                                              -1.029 0.303691
                       -0.155960
## PlatformX360
                         0.137064
                                    0.105059
                                               1.305 0.192058
## PlatformXB
                       -0.592264
                                    0.123708
                                              -4.788 1.72e-06 ***
## PlatformXOne
                         0.060666
                                    0.137367
                                               0.442 0.658769
## Year of Release1997 -0.726793
                                    0.554212
                                              -1.311 0.189767
## Year of Release1998 -1.077743
                                    0.510138
                                              -2.113 0.034667 *
## Year of Release1999 -0.949456
                                    0.503195
                                              -1.887 0.059223
## Year_of_Release2000 -1.236553
                                    0.472280
                                              -2.618 0.008858 **
## Year_of_Release2001 -1.223498
                                    0.469827
                                              -2.604 0.009231 **
## Year_of_Release2002 -1.409091
                                    0.471339
                                              -2.990 0.002804 **
## Year_of_Release2003 -1.515330
                                    0.471162
                                              -3.216 0.001305 **
## Year_of_Release2004 -1.341904
                                    0.471065
                                              -2.849 0.004404 **
## Year_of_Release2005 -1.528017
                                    0.470406
                                              -3.248 0.001167 **
## Year_of_Release2006 -1.629066
                                    0.470786
                                              -3.460 0.000543 ***
## Year_of_Release2007 -1.435650
                                    0.471085
                                              -3.048 0.002316 **
## Year_of_Release2008 -1.281816
                                    0.471345
                                              -2.719 0.006555 **
## Year_of_Release2009 -1.388055
                                    0.471371
                                              -2.945 0.003244 **
## Year_of_Release2010 -1.097769
                                    0.472211
                                              -2.325 0.020115 *
## Year of Release2011 -1.165833
                                    0.472206
                                              -2.469 0.013577 *
## Year_of_Release2012 -1.281404
                                              -2.705 0.006843 **
                                    0.473680
## Year_of_Release2013 -1.172757
                                    0.474853
                                              -2.470 0.013546 *
## Year_of_Release2014 -1.470740
                                    0.476074
                                              -3.089 0.002014 **
## Year of Release2015 -1.636432
                                    0.478963
                                              -3.417 0.000638 ***
## Year_of_Release2016 -2.348183
                                              -4.898 9.92e-07 ***
                                    0.479449
                       -0.557443
                                              -7.252 4.56e-13 ***
## GenreAdventure
                                    0.076865
## GenreFighting
                       -0.045047
                                    0.065896
                                              -0.684 0.494246
## GenreMisc
                         0.096740
                                    0.066005
                                               1.466 0.142791
## GenrePlatform
                         0.007374
                                    0.066434
                                               0.111 0.911622
## GenrePuzzle
                       -0.648282
                                    0.111817
                                              -5.798 7.03e-09 ***
## GenreRacing
                       -0.128074
                                    0.058928
                                              -2.173 0.029784 *
                                              -3.044 0.002343 **
## GenreRole-Playing
                       -0.157703
                                    0.051807
## GenreShooter
                         0.007235
                                    0.048960
                                               0.148 0.882520
## GenreSimulation
                                    0.073574
                                               1.488 0.136728
                         0.109498
## GenreSports
                       -0.203707
                                    0.055577
                                              -3.665 0.000249 ***
## GenreStrategy
                       -0.576644
                                    0.077573
                                              -7.434 1.19e-13 ***
## Critic Score
                         0.049864
                                    0.001311 38.046 < 2e-16 ***
```