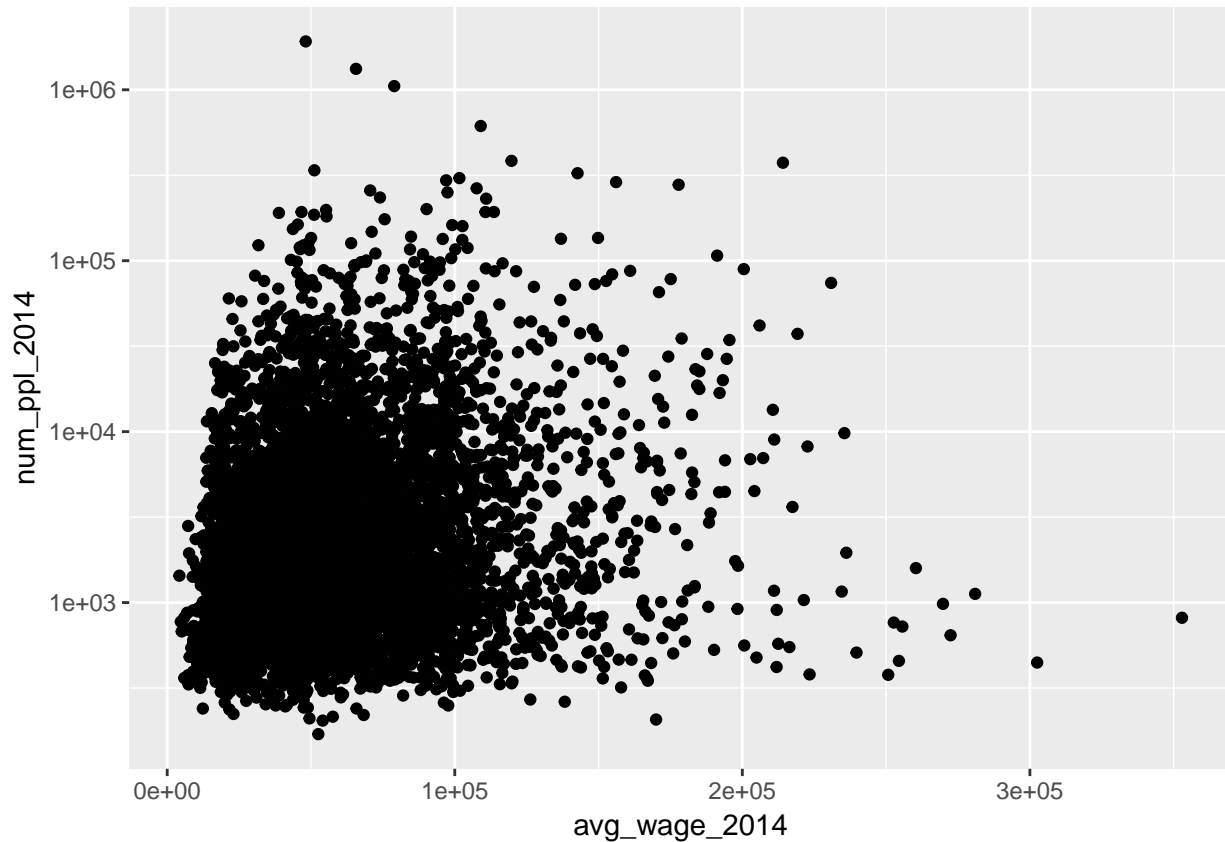# Final Project

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Does it matter if you choose a Private or Public University?

I want to compare the top public and private Universities to see if there is a difference in average earnings after graduation. For my initial comparisons I will see the differences in tuition vs. debt ratio. Then I will continue on to the most common major for each school, this usually predicts the wage. Then I will compare the average earnings between the different schools.

I originally wanted to get the #1 private/public university and then also the #50 school for each to be able to standardize. #1 schools are in the top for overall school so #50 will be able to see a clear difference. I got the original data from Data USA.

I am not sure if there is a way to get data from all public/private universities into 1 dataset.

private- (1) Harvard (50) Wake Forest University

public- (1) UC Berkeley (50) University of Oregon

```
##    soc_name          soc_sumlevel      soc_id            cip_name
##  Length:15538       Min.   :3       Length:15538       Length:15538
##  Class :character   1st Qu.:3       Class :character   Class :character
##  Mode  :character   Median :3       Mode  :character   Mode  :character
```

```
##                       Mean   :3
##                       3rd Qu.:3
##                       Max.   :3
##                       NA's   :8188
##   cip_sumlevel     cip_id         university_name    university_id
##  Min.   :0     Length:15538      Length:15538       Length:15538
##  1st Qu.:0     Class :character  Class :character   Class :character
##  Median :0     Mode  :character  Mode  :character   Mode  :character
##  Mean   :0
##  3rd Qu.:0
##  Max.   :0
##  NA's   :8188
##  avg_wage_2014    avg_wage_2015    num_enrolled_pct_calc_2012
##  Min.   :  4224   Min.   :  2080   Length:15538
##  1st Qu.: 36677   1st Qu.: 37431   Class :character
##  Median : 54584   Median : 55147   Mode  :character
##  Mean   : 61356   Mean   : 62117
##  3rd Qu.: 79269   3rd Qu.: 78958
##  Max.   :352894   Max.   :398096
##  NA's   :9420     NA's   :9303
##  num_enrolled_pct_calc_2013 num_enrolled_pct_calc_2014
##  Length:15538               Length:15538
##  Class :character           Class :character
##  Mode  :character           Mode  :character
##
##
##
##
##  num_enrolled_pct_calc_2015 num_enrolled_pct_calc_2016 avg_wage_2016
##  Length:15538               Length:15538               Min.   :  1209
##  Class :character           Class :character           1st Qu.: 37743
##  Mode  :character           Mode  :character           Median : 56707
##                                                        Mean   : 63619
##                                                        3rd Qu.: 81601
##                                                        Max.   :390121
##                                                        NA's   :9166
##  enrollment_status_2012 enrollment_status_2013 enrollment_status_2014
##  Length:15538           Length:15538           Length:15538
##  Class :character       Class :character       Class :character
##  Mode  :character       Mode  :character       Mode  :character
##
##
##
##
##  enrollment_status_2015 enrollment_status_2016 num_enrolled_2012
##  Length:15538           Length:15538           Length:15538
##  Class :character       Class :character       Class :character
##  Mode  :character       Mode  :character       Mode  :character
##
##
##
##
##  num_enrolled_2013  num_enrolled_2014  num_enrolled_2015
##  Length:15538       Length:15538       Length:15538
```

```
##   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character
##
##
##
##
##   num_enrolled_2016   num_ppl_2014      num_ppl_2015       num_ppl_2016
##   Length:15538       Min.   :    170   Min.   :    202   Min.   :    178
##   Class :character   1st Qu.:    854   1st Qu.:    857   1st Qu.:    842
##   Mode  :character   Median :   1746   Median :   1721   Median :   1762
##                      Mean   :   7457   Mean   :   7564   Mean   :   7656
##                      3rd Qu.:   4602   3rd Qu.:   4582   3rd Qu.:   4684
##                      Max.   :1918165   Max.   :1898122   Max.   :1976183
##                      NA's   :9420      NA's   :9303      NA's   :9166
##   oos_tuition_2013   oos_tuition_2014   oos_tuition_2015
##   Length:15538       Length:15538       Length:15538
##   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character
##
##
##
##
##   oos_tuition_2016   state_tuition_2013 state_tuition_2014
##   Length:15538       Length:15538       Length:15538
##   Class :character   Class :character   Class :character
##   Mode  :character   Mode  :character   Mode  :character
##
##
##
##
##   state_tuition_2015 state_tuition_2016
##   Length:15538       Length:15538
##   Class :character   Class :character
##   Mode  :character   Mode  :character
##
##
##
##
```