

# College Graduation Correlation

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## College Selected Info Table

```
unis <- read.csv("College_Data.csv") %>%  
  select(X,Private, Accept, Enroll, Top10perc,Grad.Rate) %>%  
  rename(College = X) %>%  
  arrange(Grad.Rate)  
head(unis,15)
```

##	College	Private	Accept	Enroll	Top10perc	Grad.Rate
## 1	Texas Southern University	No	3245	2604	15	10
## 2	Alaska Pacific University	Yes	146	55	16	15
## 3	Montreat-Anderson College	Yes	223	103	10	15
## 4	Brewton-Parker College	Yes	1228	1202	10	18
## 5	Claflin College	Yes	697	499	21	21
## 6	Huron University	Yes	197	124	3	21
## 7	Mount Saint Clare College	Yes	284	95	16	21
## 8	Ferrum College	Yes	1107	336	12	22
## 9	Centenary College	Yes	312	90	12	24
## 10	Fayetteville State University	No	1064	452	1	24
## 11	Jersey City State College	No	1423	691	10	26
## 12	Lamar University	No	1725	1043	10	26
## 13	Missouri Valley College	Yes	983	316	5	27
## 14	Gardner Webb University	Yes	930	332	18	29
## 15	University of Texas at Arlington	No	2559	1448	19	29

## College Modified Info Table with Tibble

```
unisTibble <- read.csv("College_Data.csv") %>%
  mutate(Enroll.Rate = (Enroll / Accept)*100) %>%
  mutate(Accept.Rate = (Accept / Apps)*100) %>%
  select(X, Private, Apps, Accept.Rate, Enroll.Rate, Grad.Rate)
as_tibble(unisTibble)
```

```
## # A tibble: 777 x 6
##   X                               Private Apps Accept.Rate Enroll.Rate Grad.Rate
##   <chr>                           <chr>   <int>       <dbl>       <dbl>       <int>
## 1 Abilene Christian University Yes     1660        74.2        58.5         60
## 2 Adelphi University           Yes     2186        88.0        26.6         56
## 3 Adrian College              Yes     1428        76.8        30.6         54
## 4 Agnes Scott College          Yes      417        83.7        39.3         59
## 5 Alaska Pacific University    Yes      193        75.6        37.7         15
## 6 Albertson College            Yes      587        81.6        33.0         55
## 7 Albertus Magnus College      Yes      353        96.3        30.3         63
## 8 Albion College               Yes     1899        90.6        28.4         73
## 9 Albright College             Yes     1038        80.8        27.1         80
## 10 Alderson-Broaddus College   Yes      582        85.6        34.5         52
## # i 767 more rows
```

## Scatter plot display

```
## working on getting a legend for graph
unisTibble %>% filter(Private=='Yes') %>%
  ggplot(aes(Enroll.Rate, Grad.Rate)) +
  geom_point(color="#f05c26", size=2) +
  ggnewscale::new_scale_color() +
  geom_point(data= filter(unisTibble, Private=='No'), aes(), size=2, color="#5451e8") +
  xlab("Enrollment Rate") + ylab("Graduation Rate") +
  ggtitle("Enrollment vs. Graduation Rates of private and public colleges")
```

Enrollment vs. Graduation Rates of private and public colleges

