Untitled

```
rm(list=ls())
library(stargazer)

##
## Please cite as:

##  Hlavac, Marek (2018). stargazer: Well-Formatted Regression and Summary
Statistics Tables.

##  R package version 5.2.2. https://CRAN.R-project.org/package=stargazer

#Creating a dummy for female
set.seed(5)
Female<-ifelse(rnorm(1000)>0, 1, 0)
sum(Female)

## [1] 509

#Creating a dummy for dscirmination
a<-0.5
b<-2
set.seed(3)
Discrimination<-ifelse(a+b*Female+rnorm(length(Female), 1, 2)>2.8, 1, 0)
sum(Discrimination)

## [1] 446

#Creating a variable called Ability
set.seed(7)
Ability<-rnorm(length(Female), 16, 4)
summary(Ability)

##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   4.107  13.368  15.910  16.012  18.712  27.868

#Creating a dummy for occupation
c<-3
d<--1.2
e<-2.1
f<-0.25
set.seed(8)
Occupation<-
ifelse(c+d*Discrimination+e*Female+f*Ability+rnorm(length(Female), 1, 2)>7,
1, 0)
sum(Occupation)

## [1] 717
```

```r
#setting parameters g , h , i and k to compare the estimates from the below
regressions
g<-23.5
h<-5.8
i<--3.03
k<-12.8
set.seed(9)
Earnings<-g+h*Ability+i*Discrimination+k*Occupation+rnorm(length(Female), 16,
4)
summary(Earnings)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   61.58  123.83  140.38  140.22  157.60  211.45
```

```r
#Regression for Y on D
stargazer(lm(Earnings~Discrimination), type="text")
```

```
##
## ================================================
##                         Dependent variable:
##                     ---------------------------
##                               Earnings
## ------------------------------------------------
## Discrimination               -5.893***
##                               (1.606)
##
## Constant                    142.849***
##                               (1.073)
##
## ------------------------------------------------
## Observations                   1,000
## R2                             0.013
## Adjusted R2                    0.012
## Residual Std. Error      25.246 (df = 998)
## F Statistic           13.465*** (df = 1; 998)
## ================================================
## Note:               *p<0.1; **p<0.05; ***p<0.01
```

```r
#regression for Y on D + O as a control
stargazer(lm(Earnings~Discrimination+Occupation), type="text")
```

```
##
## ================================================
##                         Dependent variable:
##                     ---------------------------
##                               Earnings
## ------------------------------------------------
## Discrimination               -3.231**
##                               (1.426)
##
## Occupation                   26.543***
```

```
##                                (1.574)
##
## Constant                     122.630***
##                                (1.527)
##
## ------------------------------------------------
## Observations                    1,000
## R2                              0.232
## Adjusted R2                     0.231
## Residual Std. Error       22.279 (df = 997)
## F Statistic           150.887*** (df = 2; 997)
## ================================================
## Note:                *p<0.1; **p<0.05; ***p<0.01
```

```
#regression for Y on D + O and A as a control
stargazer(lm(Earnings~Discrimination+Occupation+Ability), type="text")
```

```
##
## ================================================
##                         Dependent variable:
##                     ---------------------------
##                               Earnings
## ------------------------------------------------
## Discrimination                -3.189***
##                                (0.246)
##
## Occupation                    12.771***
##                                (0.282)
##
## Ability                       5.799***
##                                (0.032)
##
## Constant                      39.634***
##                                (0.531)
##
## ------------------------------------------------
## Observations                    1,000
## R2                              0.977
## Adjusted R2                     0.977
## Residual Std. Error       3.845 (df = 996)
## F Statistic          14,200.460*** (df = 3; 996)
## ================================================
## Note:                *p<0.1; **p<0.05; ***p<0.01
```

```
#Additional regressions
stargazer(lm(Earnings~Discrimination+Ability), type="text")
```

```
##
## ================================================
##                         Dependent variable:
##                     ---------------------------
```

```
##                               Earnings
## ---------------------------------------------
## Discrimination               -4.373***
##                               (0.428)
##
## Ability                      6.193***
##                               (0.054)
##
## Constant                     43.002***
##                               (0.918)
##
## ---------------------------------------------
## Observations                   1,000
## R2                             0.930
## Adjusted R2                    0.930
## Residual Std. Error      6.720 (df = 997)
## F Statistic         6,639.879*** (df = 2; 997)
## =============================================
## Note:               *p<0.1; **p<0.05; ***p<0.01
```

```
stargazer(lm(Earnings~Occupation+Ability), type="text")
```

```
##
## =============================================
##                         Dependent variable:
##                     ---------------------------
##                               Earnings
## ---------------------------------------------
## Occupation                   13.159***
##                               (0.303)
##
## Ability                      5.799***
##                               (0.035)
##
## Constant                     37.927***
##                               (0.555)
##
## ---------------------------------------------
## Observations                   1,000
## R2                             0.973
## Adjusted R2                    0.973
## Residual Std. Error      4.155 (df = 997)
## F Statistic         18,175.270*** (df = 2; 997)
## =============================================
## Note:               *p<0.1; **p<0.05; ***p<0.01
```