

Homework 2

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Problem 4

The first and most obvious benefit of using a version control system is that it allows a user to store and have instant access to all the versions of a particular project. This in turn allows one to return to any previous state if necessary. I believe this is helpful both in the classroom and on the job.

Problem 5

I completely ran out of time while working on this assignment and take full responsibility for it.

Problem 6

I started by selecting the appropriate variables and removing the entries that were missing data.

```
plants2 <- select(plants, pH_Min, pH_Max)
plants3 <- filter(plants2, !is.na(pH_Min), !is.na(pH_Max))
```

Then I ran the analysis.

```
simple.fit <- lm(pH_Min~pH_Max, plants3)
summary(simple.fit)
```

```
##
## Call:
## lm(formula = pH_Min ~ pH_Max, data = plants3)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -1.81503 -0.39350 -0.04382  0.45618  1.80586
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  2.78904    0.23574  11.831  <2e-16 ***
## pH_Max       0.30064    0.03196   9.406  <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.6302 on 837 degrees of freedom
## Multiple R-squared:  0.0956, Adjusted R-squared:  0.09452
## F-statistic: 88.48 on 1 and 837 DF, p-value: < 2.2e-16
```