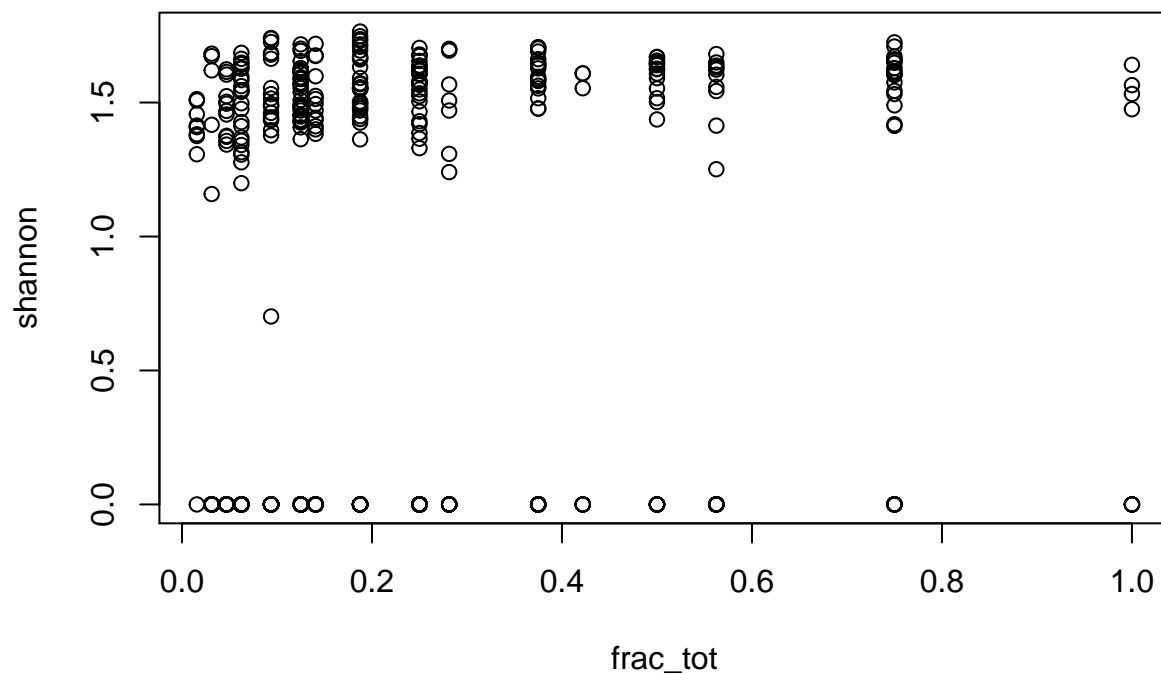


Analysis

First, lets see what the effect are when there are 6 species of plants.

```
frac_trial_3 <- read.csv("C:/Users/Mieke/Documents/Senior Work/outputs/fract_trial_3_6spec.txt")
attach(frac_trial_3)
```

Relationships to explore: - What is the relationship between amount of toxicity and diversity? - what is the relationship between amount of toxicity and diversity on Serpentine Patches? Off of serpentine patches?



```
fit <- lm(shannon ~ frac_tot)
summary(fit)
```

```
##
## Call:
## lm(formula = shannon ~ frac_tot)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -0.8369 -0.6522 -0.6238  0.8575  1.1128
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  0.60961    0.04939  12.344  <2e-16 ***
```

```
## frac_tot      0.22732    0.15388    1.477      0.14
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.7693 on 574 degrees of freedom
## Multiple R-squared:  0.003788,    Adjusted R-squared:  0.002052
## F-statistic: 2.182 on 1 and 574 DF,  p-value: 0.1402
```

- What features of plants lead to domination?