day_9_nov_14_2016_occupancy_chisquare

Trying to try out goodness of fit and contigency table independence tests today.

```
## [1] 0.635272
```

We know that 63.5% of the data points have occupancy as 0.

```
newprior <- 0.641
empty <- sum(df$Occupancy == 0)
notempty <- sum(df$Occupancy != 0)
(t <- chisq.test(c(empty, notempty), p=c(newprior, 1 - newprior)))
```

```
##
##  Chi-squared test for given probabilities
##
## data:  c(empty, notempty)
## X-squared = 0.37997, df = 1, p-value = 0.5376
```

```
t$expected
```

```
## [1] 1708.265  956.735
```

I don't have time to do the contigency table atm... But the idea is to have a two-way table, each cell has its own expected value, and we just test if X^2 is above p_α