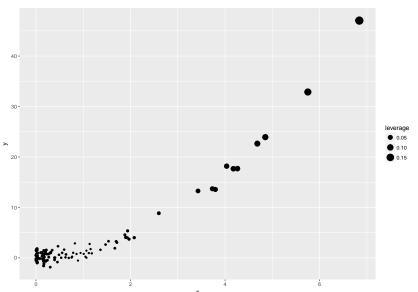
Assignment III

YEP

2/1/2018

Leverage plot

As expected, observations with larger \boldsymbol{x} have higher leverage:



```
## # A tibble: 2 x 4
##
   sig mean sd five
## <chr> <dbl> <dbl> <dbl>
## 1 0.5 0.00766 0.577 0.250
## 2 1 -0.00921 0.608 0.0496
## # A tibble: 6 \times 5
## # Groups: sig [?]
##
   sig V2 mean sd five
## <chr> <fct> <dbl> <dbl> <dbl>
## 1 0.5 conventional 0.331 0.0521 0.250
## 2 0.5 HC1 0.448 0.218 0.200
## 3 0.5 uHC1 0.606 0 0.0338
## 4 1 conventional 0.603 0.0817 0.0496
## 5 1 HC1
                   0.483 0.202 0.171
## 6 1 uHC1
                   0.630 0 0.0337
```

With heteroskedasticity, rejection rates are much larger than 5%. The estimation of standard errors are below the unfeasible HC1, but HC1 is better than the conventional. Under homoskedasticity, the conventional behaves well, as expected.

