

p8130 homework 5

Jeffrey Liang

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Problem 1

```
##  
## Wilcoxon rank sum test with continuity correction  
##  
## data:  antibody %>% pull(Altered) and antibody %>% pull(Normal)  
## W = 8582, p-value = 0.01  
## alternative hypothesis: true location shift is not equal to 0
```

Problem 2

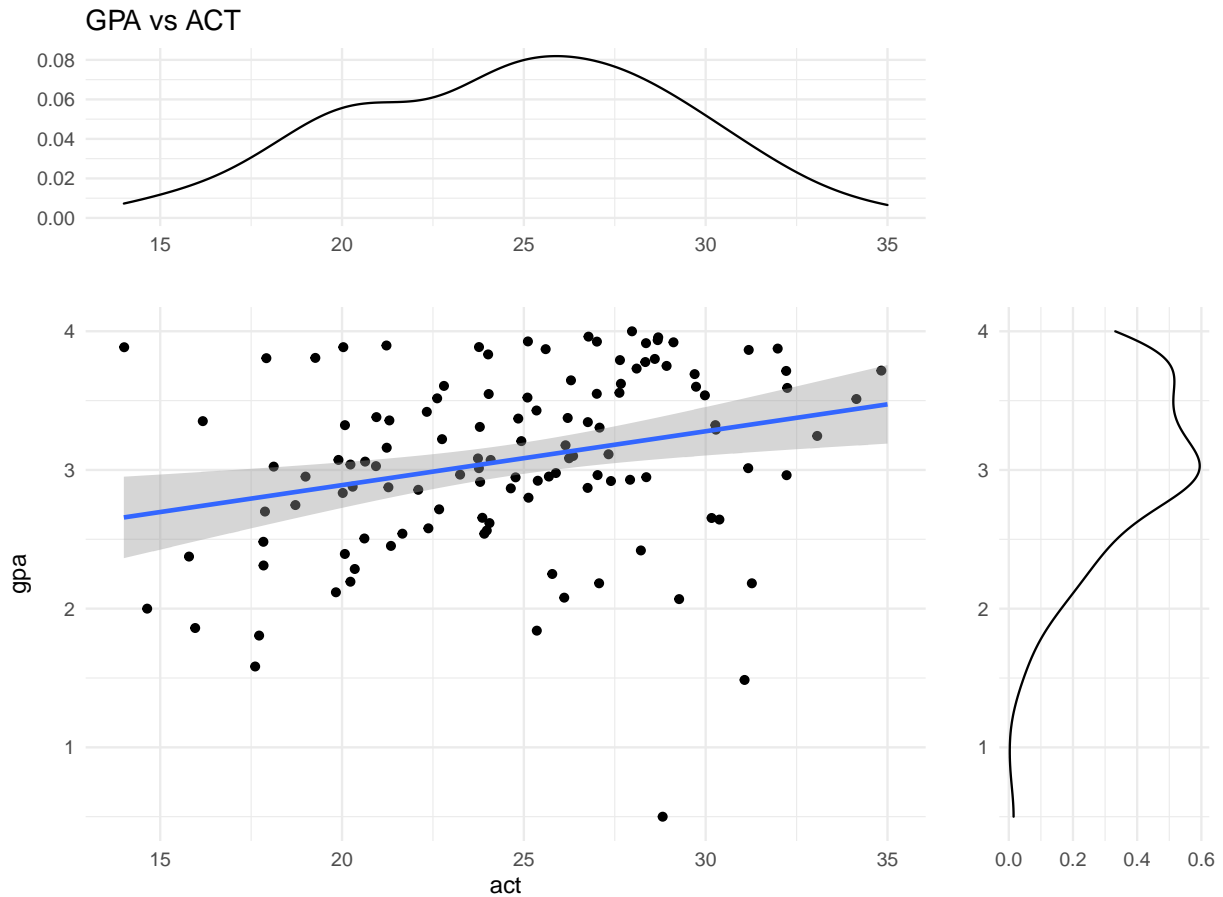
Problem 3

Table 1: Data summary

Name	gpa
Number of rows	120
Number of columns	2
Column type frequency:	
numeric	2
Group variables	None

Variable type: numeric

skim_variable	n_missing	complete_rate	mean	sd	p0	p25	p50	p75	p100
gpa	0	1	3.07	0.64	0.5	2.69	3.08	3.59	4
act	0	1	24.73	4.47	14.0	21.00	25.00	28.00	35



```
##
## Call:
## lm(formula = gpa ~ act, data = gpa)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -2.7400 -0.3383  0.0406  0.4406  1.2274
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   2.1140     0.3209   6.59 1.3e-09 ***
## act           0.0388     0.0128   3.04 0.0029 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 0.623 on 118 degrees of freedom
## Multiple R-squared:  0.0726, Adjusted R-squared:  0.0648
## F-statistic: 9.24 on 1 and 118 DF,  p-value: 0.00292
```