- 1. Let's say I survey the class and ask "Did you leave Reed College to travel during Fall Break". Out of 23 students, 14 of them or 60.8% said yes. Is this consistent with a claim that half of Reed students travel over fall break? Assume the data set is called fallbreak and the column is travel, which takes values yes and no.
 - (a) Please write the infer code that would test this claim.

(b) Please write the infer code that compute a confidence interval for our statistic.

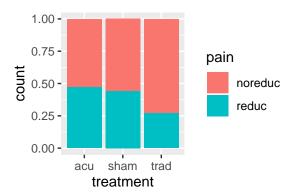
2. Consider the results from a randomized controlled trial conducted at Harvard regarding the effectiveness of three treatments (acupuncture, sham acupuncture, and traditional medicine (i.e. pain meds)) to reduce back backpain. The dataset is called acu.

```
## treatment

## pain acu sham trad

## noreduc 203 216 282

## reduc 184 171 106
```



The scientists were interested in the question of whether these treatments had any effect on self-reported pain.

- (a) Write out the null hypothesis corresponding to this question.
- (b) Write out the infer code to generate the following plot.

