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| **Creating a Summary Table of Observations of One Variable**  <NAME OF DATASET> %>%  count(<NAME OF CATEGORICAL VARIABLE>) |
| **Creating a Summary Table of Observations from Two Variables**  <NAME OF DATASET> %>%  count(<NAME OF CATEGORICAL VARIABLE 1>,  <NAME OF CATEGORICAL VARIABLE 2>) |
| **Creating a Contingency Table of Observations from Two Variables**  <NAME OF DATASET> %>%  count(<NAME OF CATEGORICAL VARIABLE 1>,  <NAME OF CATEGORICAL VARIABLE 2>) %>%  pivot\_wider(names\_from = <NAME OF EXPLANATORY VARIABLE>,  values\_from = n) %>%  adorn\_totals(where = c(“row”, “col”))  ***Note:*** Your explanatory variable should be in the rows and your response variable should be in the columns. So, the variable you insert into names\_from should be the response variable you are interested in. |
| **Obtaining the Sample (Observed) F-Statistic**  obs\_slope <- <NAME OF DATASET> %>%  specify(response = <NAME OF VARIABLE>,  explanatory = <NAME OF VARIABLE>) %>%  calculate(stat = "F") |
| **Obtaining 1000 Permuted F-Statistics**  null\_dist <- <NAME OF DATASET> %>%  specify(response = <NAME OF NUMERICAL VARIABLE>,  explanatory = <NAME OF CATEGORICAL VARIABLE>) %>%  hypothesize(null = “independence”) %>%  generate(reps = 1000, type = "permute") %>%  calculate(stat = "F")  ***Note:*** You choose the number of reps. I recommend choosing at least 1000, to get a good idea of the shape of the bootstrap distribution – remember we need to verify it is approximately normal. |

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| **Plotting the Null Distribution**  visualize(null\_distribution)  ***Note:*** You can add axis labels to this plot! All you need to do is connect the visualize() step to labs() using a **+** sign. |
| **Shading the p-value**  visualize(null\_distribution)+  shade\_p\_value(obs\_stat = obs\_F, direction = “two-sided”)  ***Note:*** You can add axis labels to this plot! All you need to do is connect the visualize() step to labs() using a **+** sign. |
| **Obtaining a p-value**  get\_p\_value(null\_dist,  obs\_stat = obs\_F,  direction = “greater”) |