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Pre Analysis

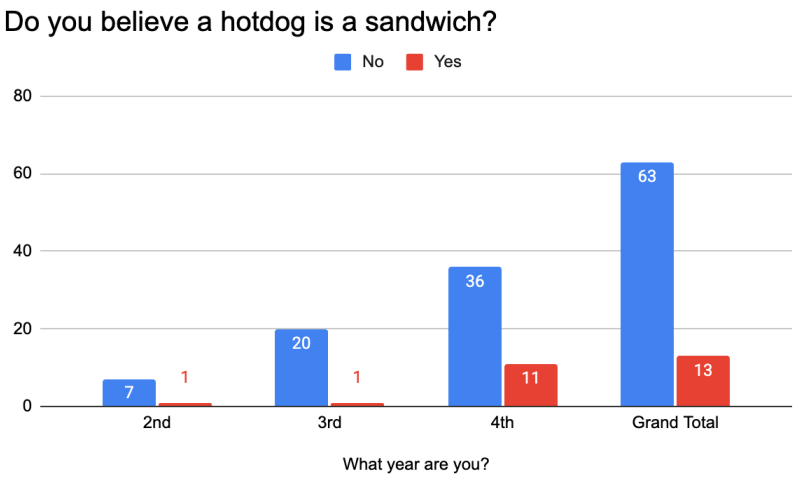
We opened the Google Sheet link, made a copy, and shared it with our group members. Then, we used conditional formatting to remove the responses where the respondent wasn't a full-time undergraduate UVA student. We did this because students who aren't full-time are outside the scope of our project. After doing so, the number of rows in the dataset was reduced from 79 to 76.

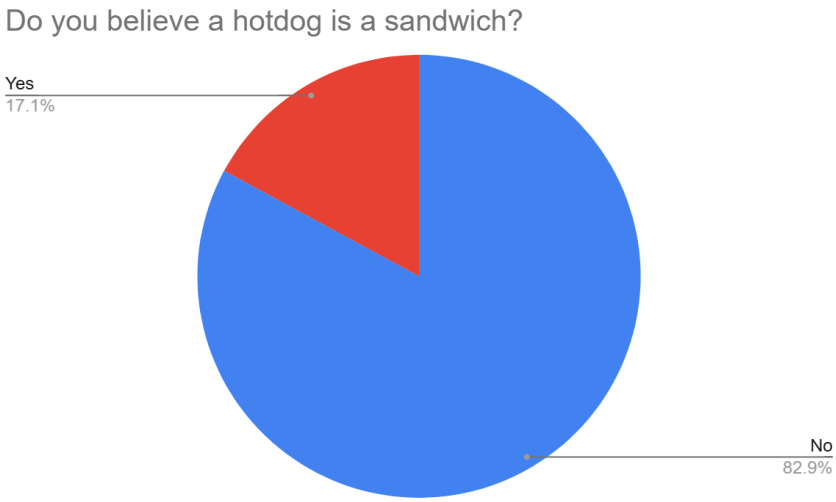
Analysis Methods

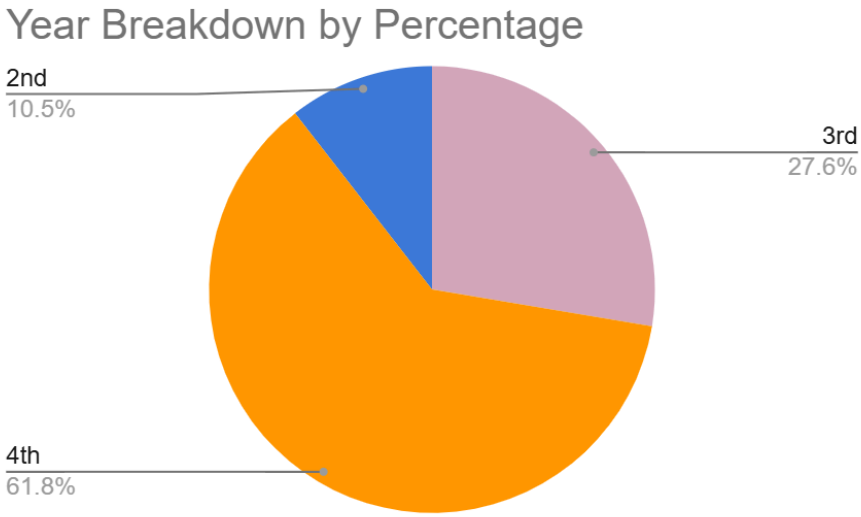
After cleaning our data, we will create varying plots to determine overall results of whether or not a hot dog is a sandwich, including breakdown by year. We will also run a one-tailed z test to determine if the sample proportion has a statistically significant difference from the null value (0.5).

Evaluation of Success

Success will be determined if our results show that the sample proportion of full-time UVA undergraduates who believe a hot dog is a sandwich is less than 50% and is statistically significant. Our sample proportion was about 17%, supporting our hypothesis. After conducting a one-tailed z-test, we found the z-statistic to be -5.74 and the p-value to be (<.0001), proving that the results are statistically significant. Below are visualizations, including a breakdown of proportions by year. We acknowledge that this dataset is heavily skewed towards 4th and 3rd years and would need to conduct a larger survey of 1st and 2nd years to have a better representation of the UVA full-time undergraduate population.


Do you believe a hotdog is a sandwich?
No
Yes
80
60
40
20
0
7
1
20
1
36
11
63
13
2nd
3rd
4th
Grand Total
What year are you?


Do you believe a hotdog is a sandwich?
Yes
17.1%
No
82.9%


Year Breakdown by Percentage
2nd
10.5%
3rd
27.6%
4th
61.8%