
Is a Hotdog a Sandwich?

Motivation

Is a hot dog a sandwich? We wanted to see how full-time UVA students think about this question and whether opinions vary by class year. While it's a fun topic, it also shows how students interpret definitions and categories differently within the same campus community.



Hypothesis: What do we think?

½ of UVA full-time undergraduate students believe a hot dog is a sandwich



Data

- Entries: 76
- Columns: 2
 - o **Year?** (1st, 2nd, 3rd, 4th)
 - o **Sandwich?** (Yes or No)

Form_Responses			
Timestamp	Are you a full-time undergraduate UVA student	What year are you?	Do you believe a hotdog is a sandwich?
1/14/2026 14:54:44	Yes	3rd	No
1/14/2026 14:55:14	Yes	4th	No
1/14/2026 14:56:49	Yes	4th	No
1/14/2026 14:58:15	Yes	4th	Yes
1/14/2026 14:58:25	Yes	4th	Yes
1/14/2026 14:58:27	Yes	4th	Yes
1/14/2026 14:58:31	Yes	3rd	Yes
1/14/2026 15:02:11	Yes	3rd	No

Survey Results



Analysis Plan

Used one-sample t -tests and visualizations such as bar charts to identify patterns in the data.

Examined whether students' class year was associated with their belief about whether a hotdog qualifies as a sandwich, allowing exploration of potential trends across undergraduate years.

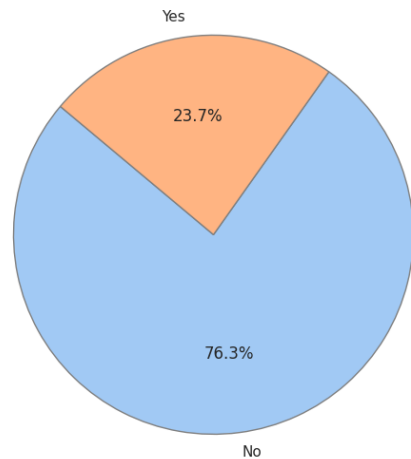
Included a basic bar graph showing the total counts of "Yes" and "No" responses to the hotdog-as-a-sandwich question.

Used this visualization to provide a summary of the overall distribution of responses to help readers quickly assess the balance of opinions before interpreting statistical test results.

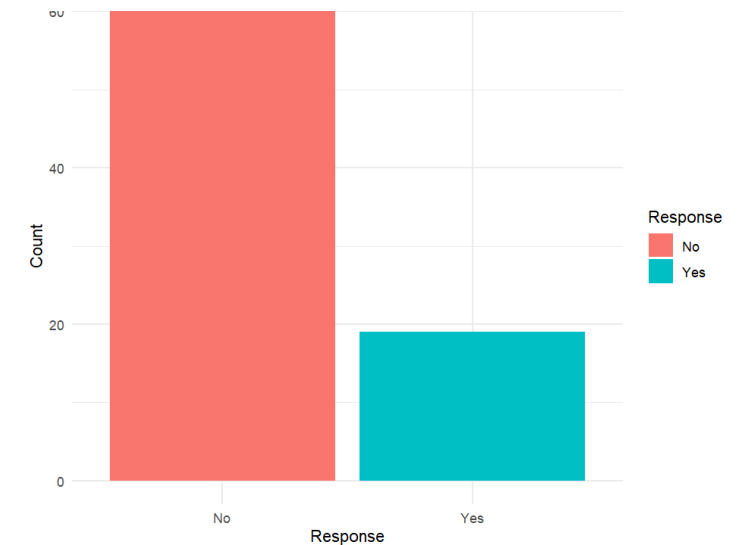
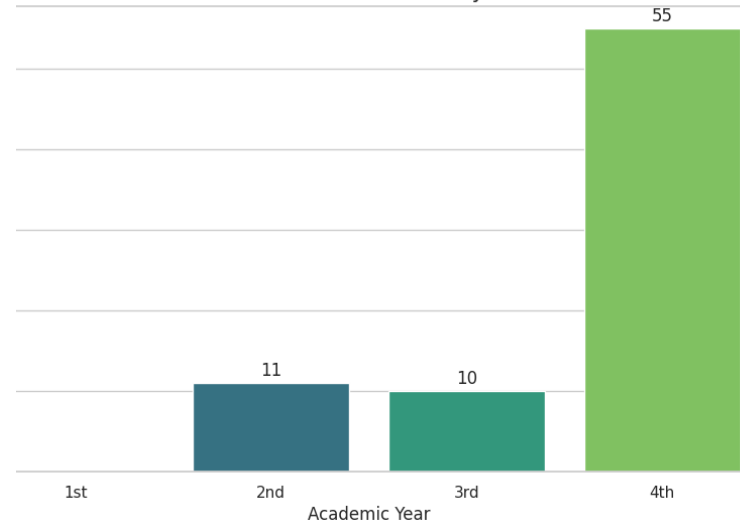
Results/Findings

The majority of the sample believes that a hot dog is not considered a sandwich

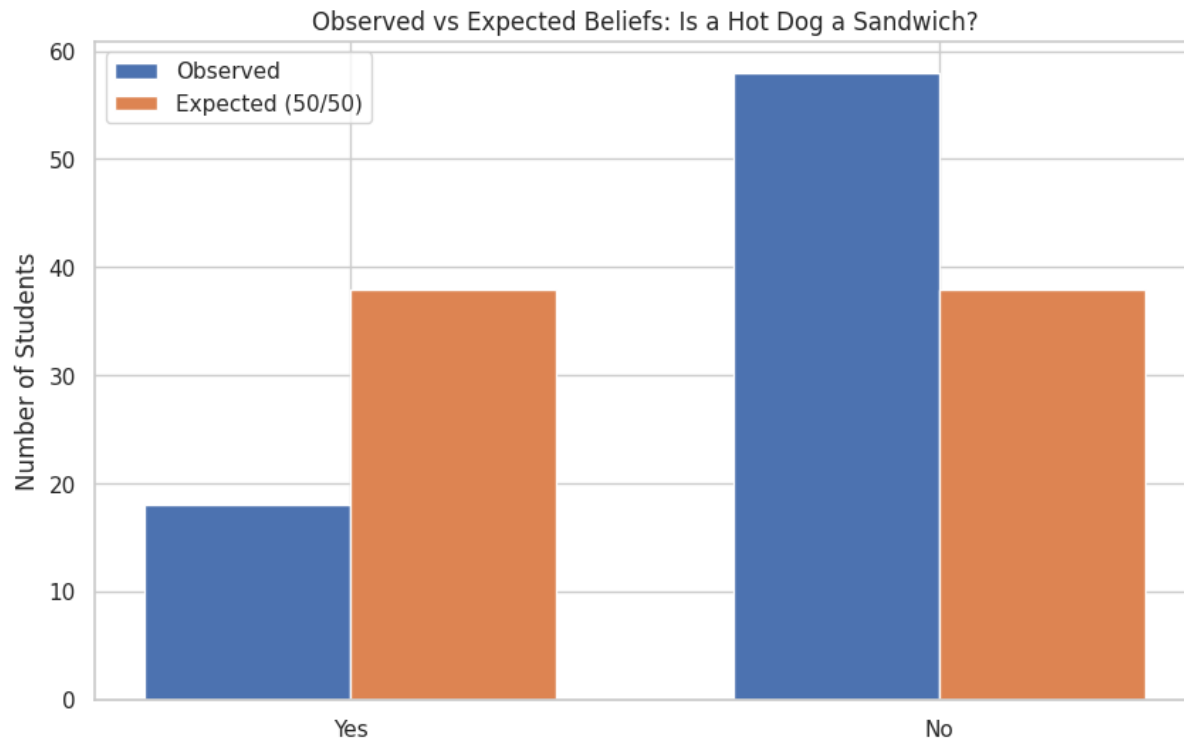
Do you believe a hotdog is a sandwich?



Distribution of Students by Year



Results/Findings



A chi-squared test showed that UVA students' responses significantly deviated from an expected 50/50 split ($\chi^2 = 21.05$, $p < 0.001$), with far fewer students believing a hot dog is a sandwich than expected.

Next Steps

Reach out and collect a bigger sample size to apply this theory to a broader audience
