Ice Cream Rankings

(Some of) Your Data

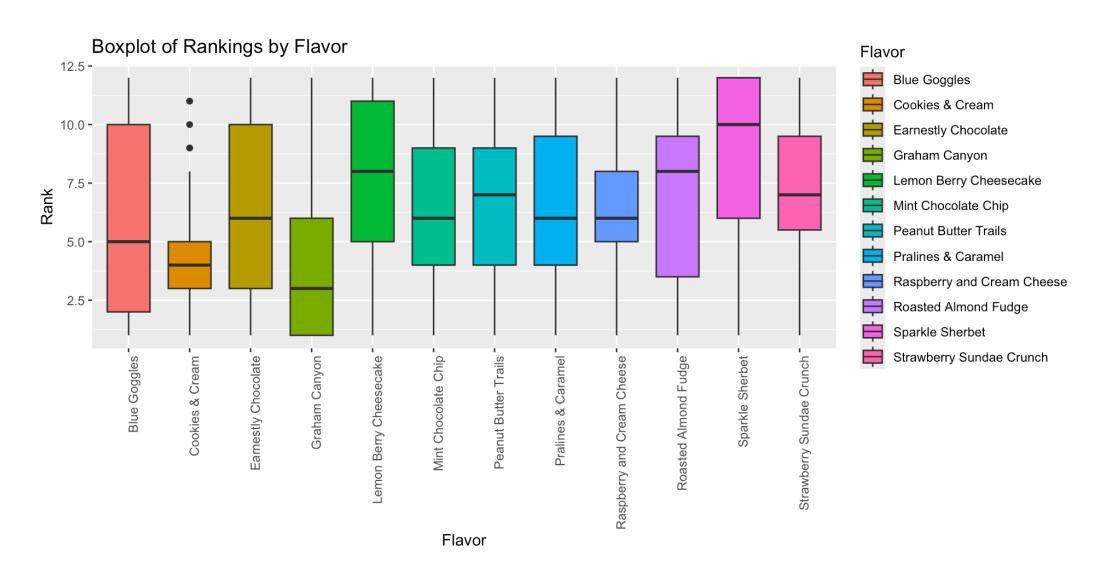
	Ice Cream Ranking Data												
Timestamp	Name	Туре	WhyHere	Blue Goggles	Cookies & Cream	Earnestly Chocolate		Lemon Berry Cheesecake	Mint Chocolate Chip	Butter	Pralines & Caramel	Raspberry and F Cream Cheese	
2024/08/30 2:29:09 PM CST	Mitchell Morehead	Student	a stats major	1	5	10	2	4	7	11	3	8	
2024/08/30 2:29:46 PM CST	Nathan Palmer	Student	a stats major	10	9	8	3	7	5	2	11	6	
2024/08/30 2:29:55 PM CST	Emilyn Watkins	Student	considering stats as a major	12	3	2	1	5	7	4	6	8	
2024/08/30 2:30:26 PM CST	Brian Hartman	Faculty	a stats major	10	6	11	12	5	1	4	3	8	
2024/08/30 2:30:33 PM CST	Brock Mendenhall	Student	considering stats as a major	11	1	3	2	6	12	8	9	5	

Best Ice Cream

What was the favorite ice cream flavor?

Best Ice Cream

What was the favorite ice cream flavor?



Best Ice Cream

Average Ranking for Each Flavor of Ice Cream

Faculty and Student Scores Included

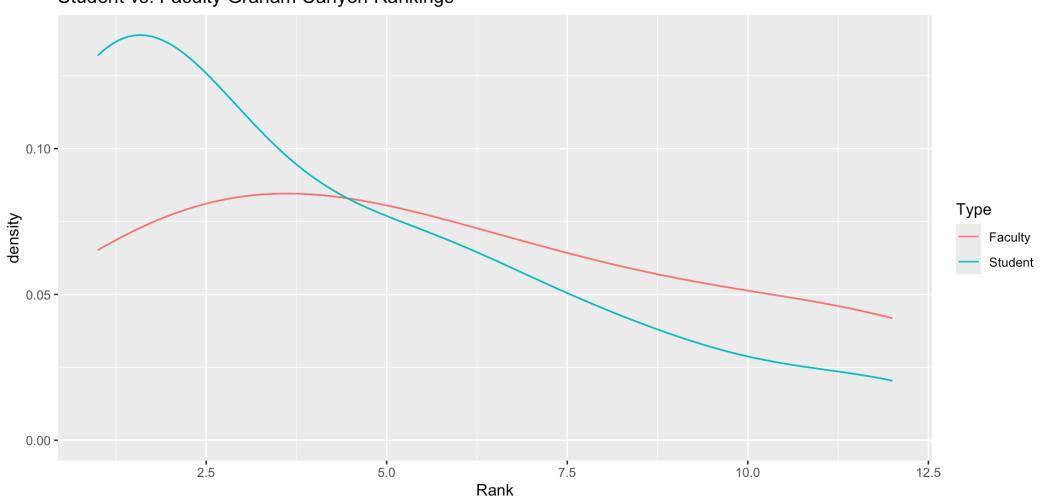
Graham Canyon Cookies & Cream	4.23
Cookies & Cream	177
	4.77
Blue Goggles	6.03
Mint Chocolate Chip	6.44
Raspberry and Cream Cheese	6.51
Peanut Butter Trails	6.54
Earnestly Chocolate	6.56
Pralines & Caramel	6.82
Roasted Almond Fudge	6.95
Strawberry Sundae Crunch	7.21
Lemon Berry Cheesecake	7.51
Sparkle Sherbet	8.44

Students vs Faculty

Is there a difference in the average Graham Canyon ranking between ALL students and ALL faculty?

Students vs Faculty





Hypothesis Testing

Is there a difference in the average Graham Canyon ranking between ALL students and ALL faculty?

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Two Sample t-test

data: studentRank and facultyRank

t = -1.0815, df = 37, p-value = 0.2865

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

-5.17244   1.57244

sample estimates:

mean of x mean of y

4.0   5.8
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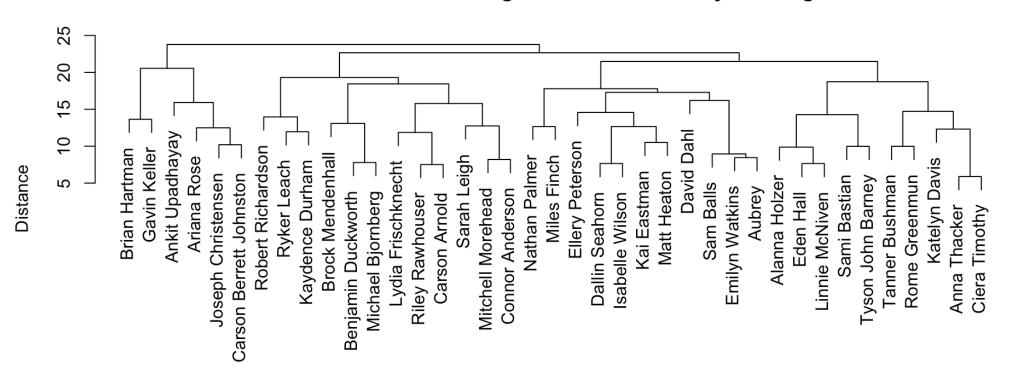
Based on this test (take some stats courses!), we conclude there IS NOT a difference in average Graham canyon ranking between faculty and students.

Clustering

Rather than differences, can we identify individuals who have similar ice cream tastes?

Clustering

Hierarchical Clustering of Student Creamery Rankings



Students hclust (*, "complete")

Cluster Groups

Cluster	Names
1	Mitchell Morehead, Riley Rawhouser, Carson Arnold, Sarah Leigh, Connor Anderson, Lydia Frischknecht
2	Nathan Palmer, Miles Finch
3	Emilyn Watkins, Sam Balls, David Dahl, Aubrey
4	Brian Hartman, Gavin Keller
5	Brock Mendenhall, Benjamin Duckworth, Michael Bjornberg
6	Robert Richardson, Ryker Leach, Kaydence Durham
7	Katelyn Davis, Tanner Bushman, Anna Thacker, Rome Greenmun, Ciera Timothy
8	Sami Bastian, Tyson John Barney, Alanna Holzer, Eden Hall, Linnie McNiven
9	Joseph Christensen, Ariana Rose, Carson Berrett Johnston, Ankit Upadhayay
10	Dallin Seahorn, Kai Eastman, Isabelle Wilson, Ellery Peterson, Matt Heaton