

Yelp vs Zomato

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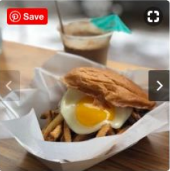
https://www.yelp.com/search?find_desc=&find_loc=Ann+Arbor%2C+MI&n

yelp Find tacos, cheap dinner, Max's Near Ann Arbor, MI Log In Sign Up


Restaurants Home Services Auto Services More Write a Review For Businesses

Browsing Ann Arbor, MI Businesses Showing 1-10 of 701

All Filters \$ \$ \$ \$ \$ Open Now Delivery Takeout

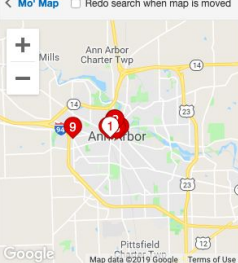


1. Frita Batidos (734) 761-2882
117 W Washington St
Downtown Ann Arbor
1540 reviews
\$ \$ Cuban, Burgers
"Update: Still amazing, this time with photos. We had the beef frita with avocado and salsa, garlic..." [read more](#)



2. Zingerman's Delicatessen (734) 663-3354
422 Detroit St
Kerrytown Ann Arbor
1943 reviews
\$ \$ Delis, Breakfast & Brunch, Sandwiches
"As person who loves bread and meat , this place is heaven . We chose Reuben sandwich and it was..." [read more](#)

Mo' Map Redo search when map is moved



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25 Hotels in Ann Arbor, MI - Be A Booker.
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https://www.zomato.com/detroit/ann-arbor-restaurants

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Ann Arbor Restaurants, Detroit
Showing 581 restaurants in Ann Arbor and 9738 others from nearby locations - [Exclude nearby locations](#)

Filters

☐ Order Food Online


Sort by

Popularity - high to low
Rating - high to low
Cost - high to low
Cost - low to high
Recently Added - new to old

Category

Dine-In	1868
Delivery	1419
Drinks & Nightlife	372
Take Out	2234


Location



Zingerman's Delicatessen
Ann Arbor
422 Detroit Street, Kerrytown 48104
4.8 779 votes

CUISINES: Breakfast, Sandwich
COST: \$\$\$
HOURS: 7am - 8pm (Mon, Tue, Wed, Thu, Sun), 7am - 9pm...

[Call](#) [View Menu](#)



Zingerman's Roadhouse
Ann Arbor
2501 Jackson Avenue 48103
4.4 441 votes

View search results

now order food online on Zomato





Get the Zomato app

Goals:





- Number of restaurants in each restaurant category
- Category with the most restaurants
- Restaurant category with the highest average star rating
- Price range with the highest average star rating
- Overall average star rating and price range for all restaurants in the database

Database





Database Structure Browse Data Edit Pragas Execute SQL

Table:    





	name	city	rating	price	categ
	Filter	Filter	Filter	Filter	Filter
1	Frita Batidos	Ann Arbor	4.5	\$\$	Cuban
2	Zingerman's Del...	Ann Arbor	4	\$\$	Delis
3	Mani Osteria & ...	Ann Arbor	4	\$\$	Italian
4	The Lunch Room	Ann Arbor	4.5	\$\$	Vegan
5	Jolly Pumpkin C...	Ann Arbor	4	\$\$	Pubs
6	Sava's	Ann Arbor	4	\$\$	Bars
7	Blank Slate Crea...	Ann Arbor	4.5	\$	Ice Cream
8	Aventura	Ann Arbor	4	\$\$	Tapas Bars
9	Zingerman's Ro...	Ann Arbor	3.5	\$\$	American
10	Pacific Rim	Ann Arbor	4	\$\$\$	Asian Fusio
11	TeaHaus	Ann Arbor	4.5	\$\$	Macarons
12	Tomukun Noodl...	Ann Arbor	4	\$\$	Noodles
13	Juicy Kitchen	Ann Arbor	4.5	\$\$	Breakfast &
14	NeoPapalis	Ann Arbor	4.5	\$	Salad
15	RoosRoast Coffee	Ann Arbor	4.5	\$\$	Coffee & T

  1 - 16 of 100   Go to:

Database Structure Browse Data Edit Pragas Execute SQL

Table:    

	name	city	rating	price	categ
	Filter	Filter	Filter	Filter	Filter
1	Zingerman's Del...	Ann Arbor	4.8	3	Breakfast
2	Krazy Jim's Blim...	Ann Arbor	4.8	1	American
3	Zingerman's Ro...	Ann Arbor	4.4	3	American
4	Grizzly Peak Bre...	Ann Arbor	4.5	2	American
5	Evergreen Resta...	Ann Arbor	4.1	1	Chinese
6	Angelo's	Ann Arbor	4.5	1	Breakfast
7	Cafe Zola	Ann Arbor	4.4	3	Breakfast
8	Pizza House	Ann Arbor	4.5	2	Italian
9	Jolly Pumpkin C...	Ann Arbor	4.5	2	American
10	Frita Batidos	Ann Arbor	4.6	2	Cuban
11	Seva	Ann Arbor	4.4	2	Vegetarian
12	Arbor Brewing ...	Ann Arbor	4.2	2	American
13	Blue Tractor BB...	Ann Arbor	4.3	2	American
14	Prickly Pear	Ann Arbor	4.4	3	Mexican
15	Jerusalem Garden	Ann Arbor	4.6	1	Mediterran

  1 - 16 of 100   Go to:

Calculations

Calculated number of restaurants in each restaurant category

Category with the most restaurants:

- Yelp: tie between “American (New)” (7), “Coffee & Tea” (7), and “Korean” (7)
- Zomato: “American” (28)

```
--
17     #function to get the number of restaurants in each category
18     #takes the column of categories as input
19     def get_num_of_rests_by_cat(category_data):
20         categories = dict()
21         for row in cur:
22             cat = row[0]
23             categories[cat] = categories.get(cat, 0) + 1
24         return categories
25         print(categories)
26     #YELP
27     categories_yelp = get_num_of_rests_by_cat(cur.execute("SELECT category FROM Yelp"))
28     categories_yelp = {"Yelp Restaurant Category Counts" : categories_yelp}
29
30     #ZOMATO
31     categories_zomato = get_num_of_rests_by_cat(cur.execute("SELECT category FROM Zomato"))
32     categories_zomato = {"Zomato Restaurant Category Counts" : categories_zomato}
--
```

Calculated average star rating based on restaurant category

Restaurant category with the highest average star rating:

- ~~Yelp: "Local Flavor"~~
(~~5.0/5.0~~) "Breakfast & Brunch" (4.75/5.0)
- Zomato: "Cuban"
(4.6/5.0)

```
34 #Average Star Rating by Category
35 #takes the category and rating columns from the database as input
36 def get_rating_by_cat(data):
37     rating_by_cat = {}
38     for row in cur:
39         cat = row[0]
40         rating = row[1]
41         if cat in rating_by_cat:
42             rating_by_cat[cat].append(rating)
43         else:
44             rating_by_cat[cat] = [rating]
45     averages = {}
46     for cat in rating_by_cat:
47         avg = round(sum(rating_by_cat[cat])/len(rating_by_cat[cat]),2)
48         averages[cat] = avg
49     return averages
50
51 #YELP
52 rating_by_cat_yelp = get_rating_by_cat(cur.execute("SELECT category, rating FROM Yelp"))
53 rating_by_cat_yelp = {"Yelp Average Star Rating by Restaurant Category" : rating_by_cat_yelp}
54
55 #ZOMATO
56 rating_by_cat_zomato = get_rating_by_cat(cur.execute("SELECT category, rating FROM Zomato"))
57 rating_by_cat_zomato = {"Zomato Average Star Rating by Restaurant Category" : rating_by_cat_zomato}
58
```

Calculated average star rating based on price range

Price range with the highest average star rating:

- Yelp: 1 out of 4 / \$ out of \$\$\$\$
- Zomato: 4 out of 4 / \$\$\$\$ out of \$\$\$\$

```
#Average star rating based on price range
#takes the star rating and price range columns from the database as input
def get_rating_by_price(data):
    rating_by_price = dict()
    for row in cur:
        rating = row[0]
        price = row[1]
        if price in rating_by_price:
            rating_by_price[price].append(rating)
        else:
            rating_by_price[price] = [rating]
    averages = {}
    for price in rating_by_price:
        ratings = rating_by_price[price]
        avg = sum(ratings)/len(ratings)
        averages[price] = round(avg, 2)
    return averages

#YELP
rating_by_price_yelp = get_rating_by_price(cur.execute("SELECT rating, price FROM Yelp"))
rating_by_price_yelp = {"Yelp Average Star Rating by Price Range" : rating_by_price_yelp}

#ZOMATO
rating_by_price_zomato = get_rating_by_price(cur.execute("SELECT rating, price FROM Zomato"))
rating_by_price_zomato = {"Zomato Average Star Rating by Price Range" : rating_by_price_zomato}
```

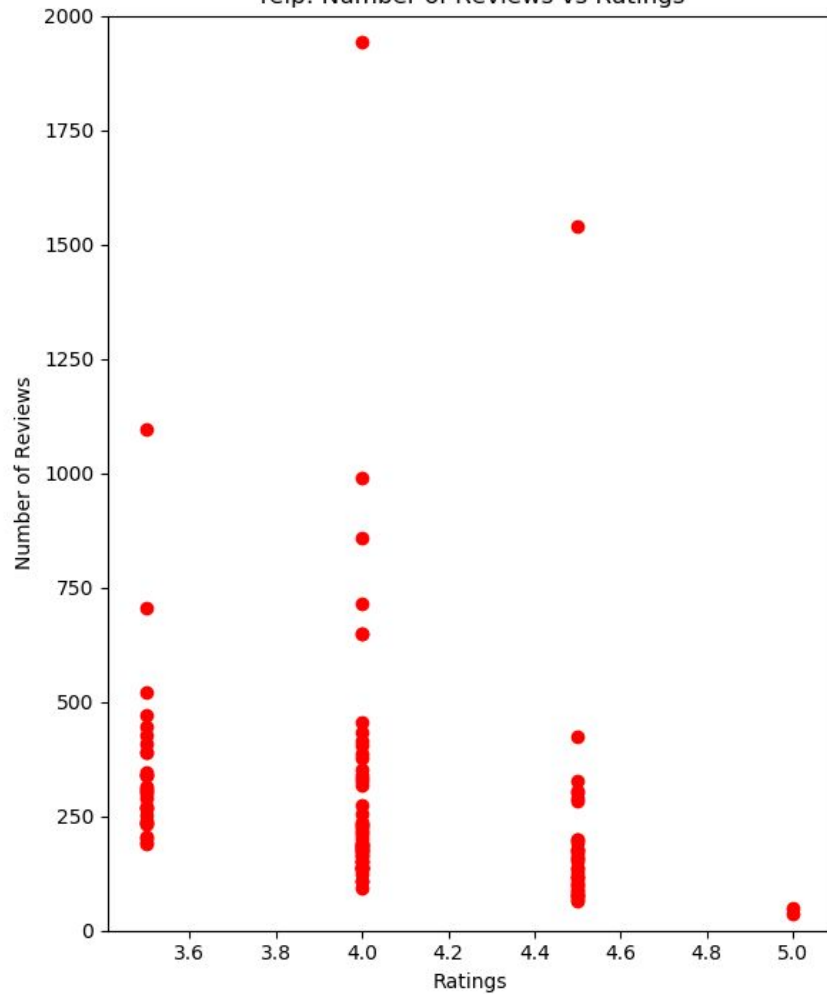

Calculated overall average star rating

- Yelp: 4.0292 / 5
- Zomato: 4.071 / 5

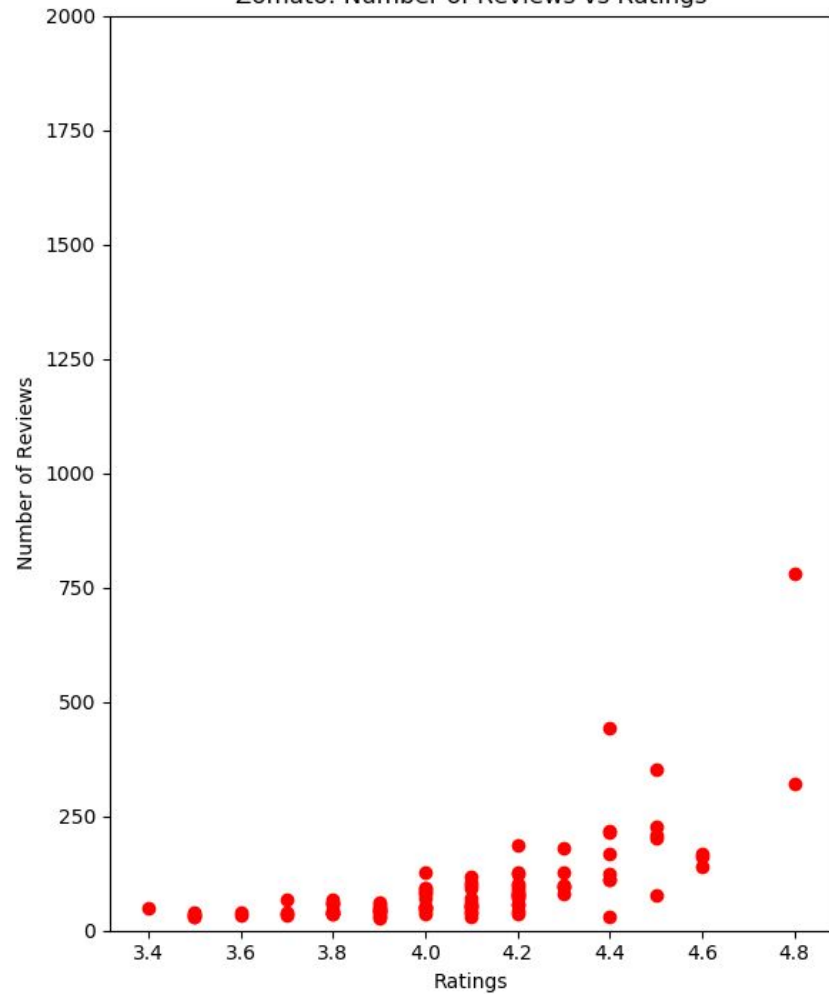
```
85 #Overall average star rating for all restaurants
86 def get_overall_average_rating(ratings):
87     ratings = list()
88     for row in cur:
89         ratings.append(row[0])
90     avg_rating = round(sum(ratings)/len(ratings),4)
91     return avg_rating
92
93 #YELP
94 overall_avg_rating_yelp = get_overall_average_rating(cur.execute("SELECT rating FROM Yelp"))
95 overall_avg_rating_yelp = {"Yelp Overall Average Star Rating for All Restaurants" : overall_avg_rating_yelp}
96
97 #ZOMATO
98 overall_avg_rating_zomato = get_overall_average_rating(cur.execute("SELECT rating FROM Zomato"))
99 overall_avg_rating_zomato = {"Zomato Overall Average Star Rating for All Restaurants" : overall_avg_rating_zomato}
```

Visualizations

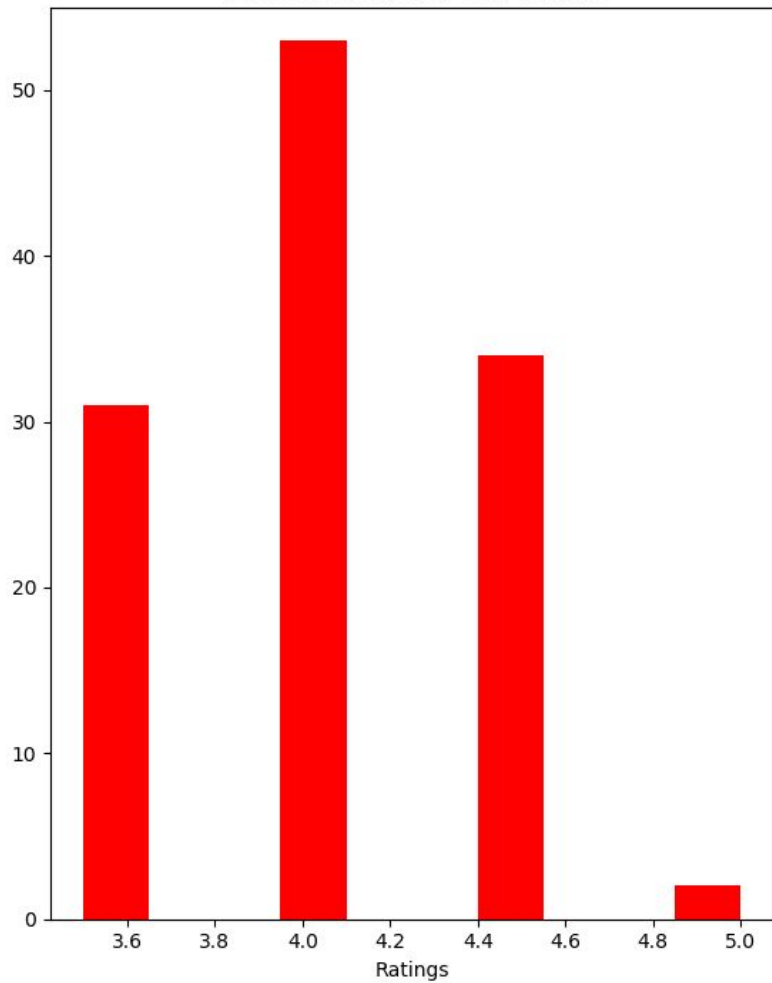
Yelp: Number of Reviews vs Ratings



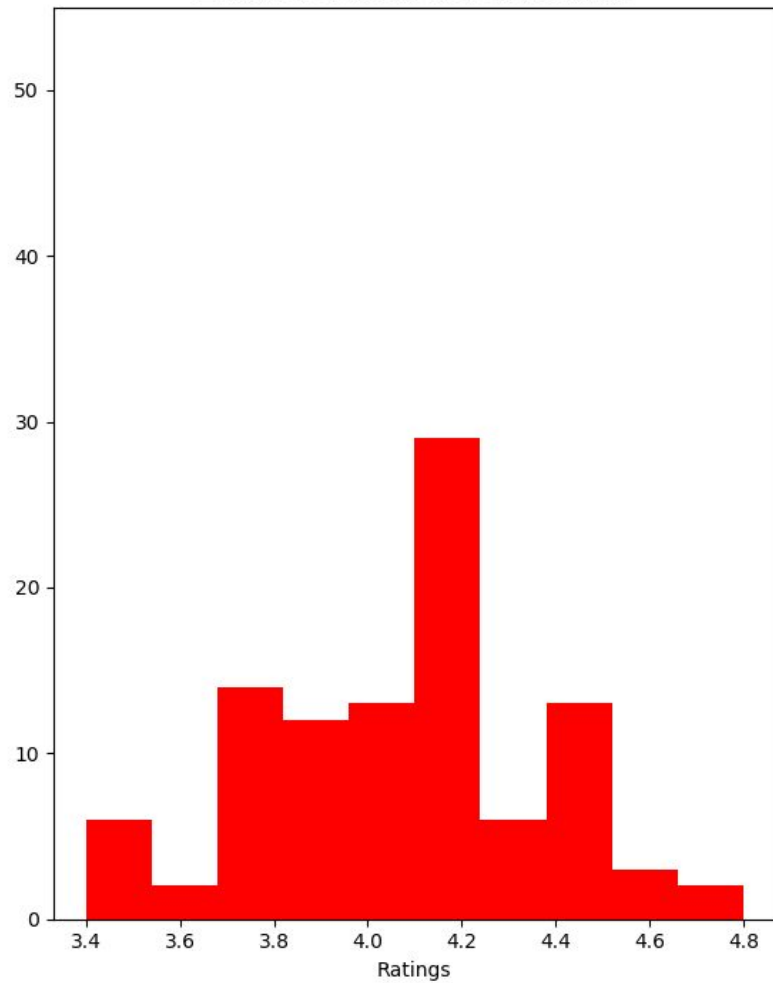
Zomato: Number of Reviews vs Ratings



Yelp: Distribution of Star Ratings



Zomato: Distribution of Star Ratings



Questions?