

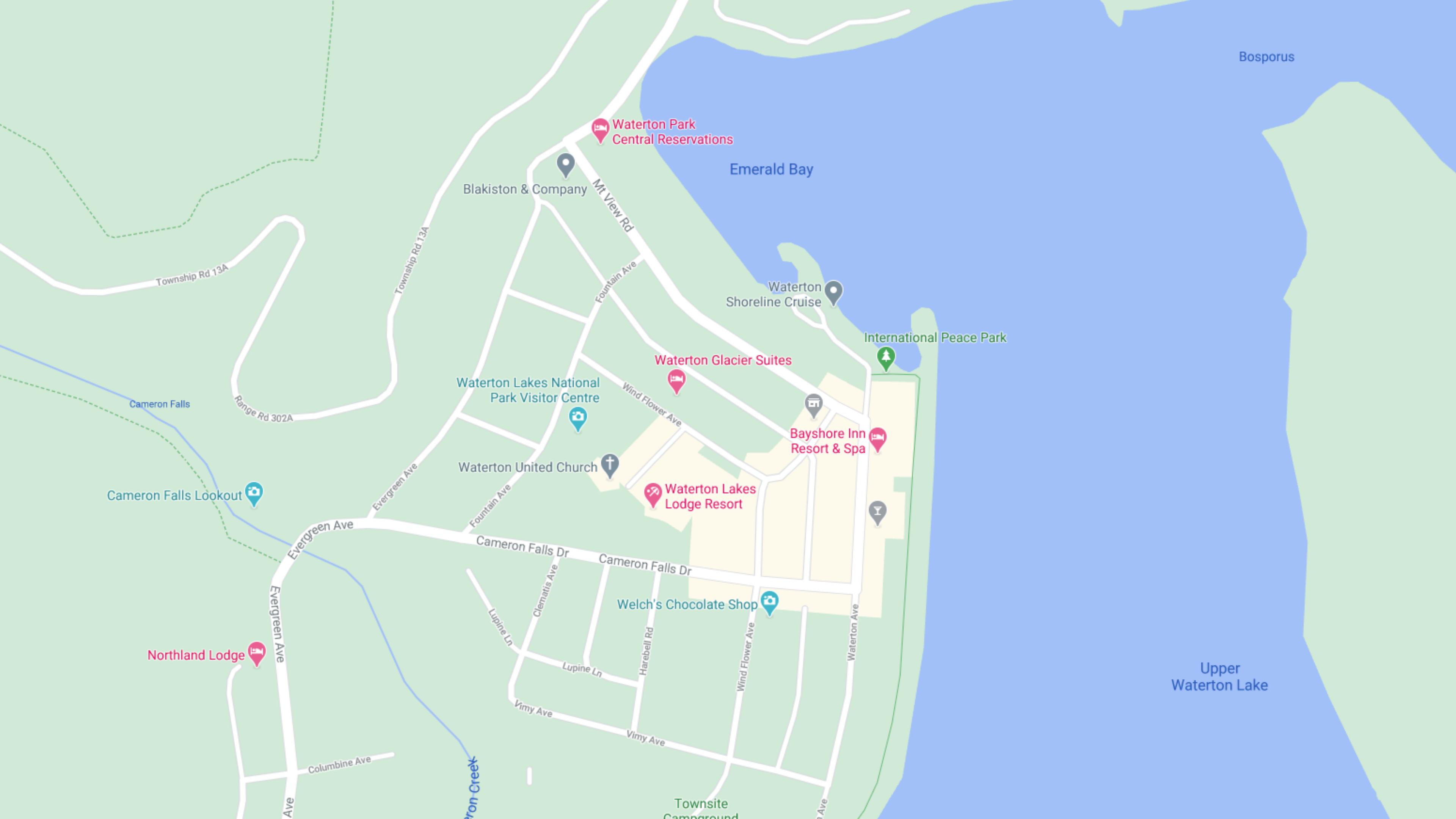


PROJECT II

WATERTON



ROBYN MUNDLE





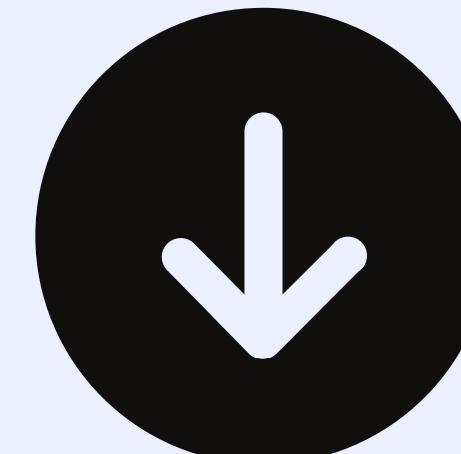
# YELP API

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**HTTPS://API.YELP.COM/V3/BUSINESSES/SEARCH?  
LOCATION='WATERTON PARK'&LIMIT=50**

- name,
- business\_id,
- rating,
- review\_count,
- latitude,
- longitude

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# FILTERED >1 REVIEW\_COUNT

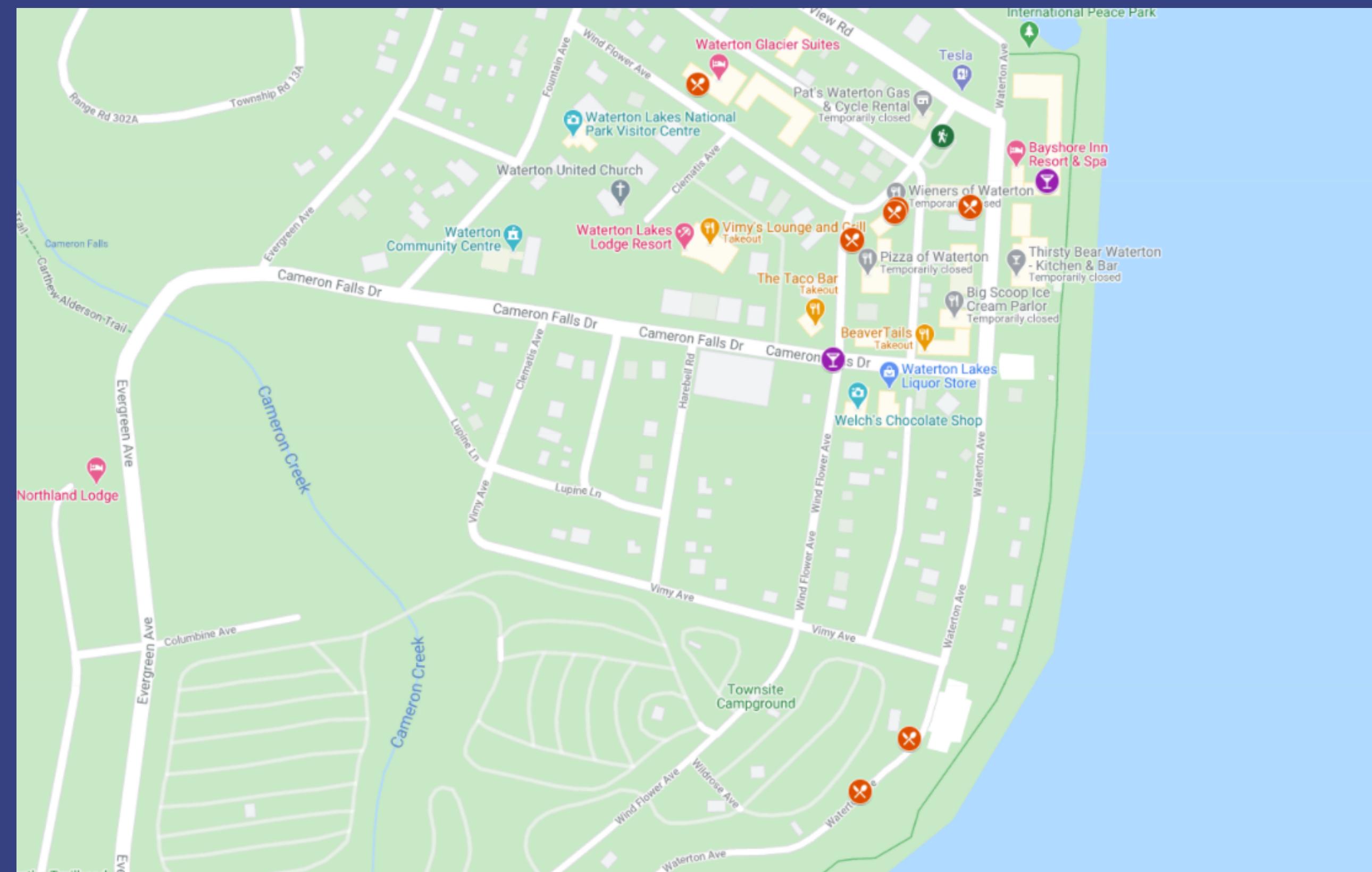
## SORTED RATING THEN REVIEWS

		name	business_id	rating	review_count	latitude	longitude
11		Waterton Lakes National Park	vYVc3QhRcZfthy0A7yMaVA	5.0	24	49.082896	-113.915587
1		Wieners of Waterton	nGkAzQtKPKyN67cys05wUw	4.5	74	49.052073	-113.907795
2		Waffleton	rJ6row-Kq57UcyOcCl-Qqg	4.5	28	49.052043	-113.907825
7		49 Degrees North Pizza	YzBmc4OJVz-vWViXgql08g	4.5	11	49.051845	-113.908287
10		Wildflower Ave Corner Coffee	R5Ki1NqnWC3y3U2RsDNLyg	4.5	9	49.050998	-113.908491
13		Red Rock Trattoria	wq-AYDQtwKzkv34bfgm4zw	4.0	15	49.052962	-113.909972
14		Fireside Lounge & Wine Bar	sBWHIK-GnppueEMVMQ-g-w	4.0	12	49.052269	-113.906167
15		Zum's Eatery In Waterton	SfN1FBGMjgXAxa1jFzl3vA	4.0	6	49.04829	-113.90767
3		Trappers Mountain Grill	IzCs5g98NnJtcD0AnWfRWg	3.5	42	49.052087	-113.907002
4		Zum's Restaurant and Mercantile	mnw-CowIWVDPeUddxLlxSg	3.5	30	49.047909	-113.908203

# Traveling Salesman Problem

Directions API by Google

```
▼ root:  
  ▼ geocoded_waypoints: [] 10 items  
    ▼ 0:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 1:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 2:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 3:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 4:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 5:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 6:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 7:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 8:  
      geocoder_status: "ZERO_RESULTS"  
    ▼ 9:  
      geocoder_status: "ZERO_RESULTS"  
  routes: [] 0 items  
  status: "NOT_FOUND"
```



# Traveling Salesman Problem

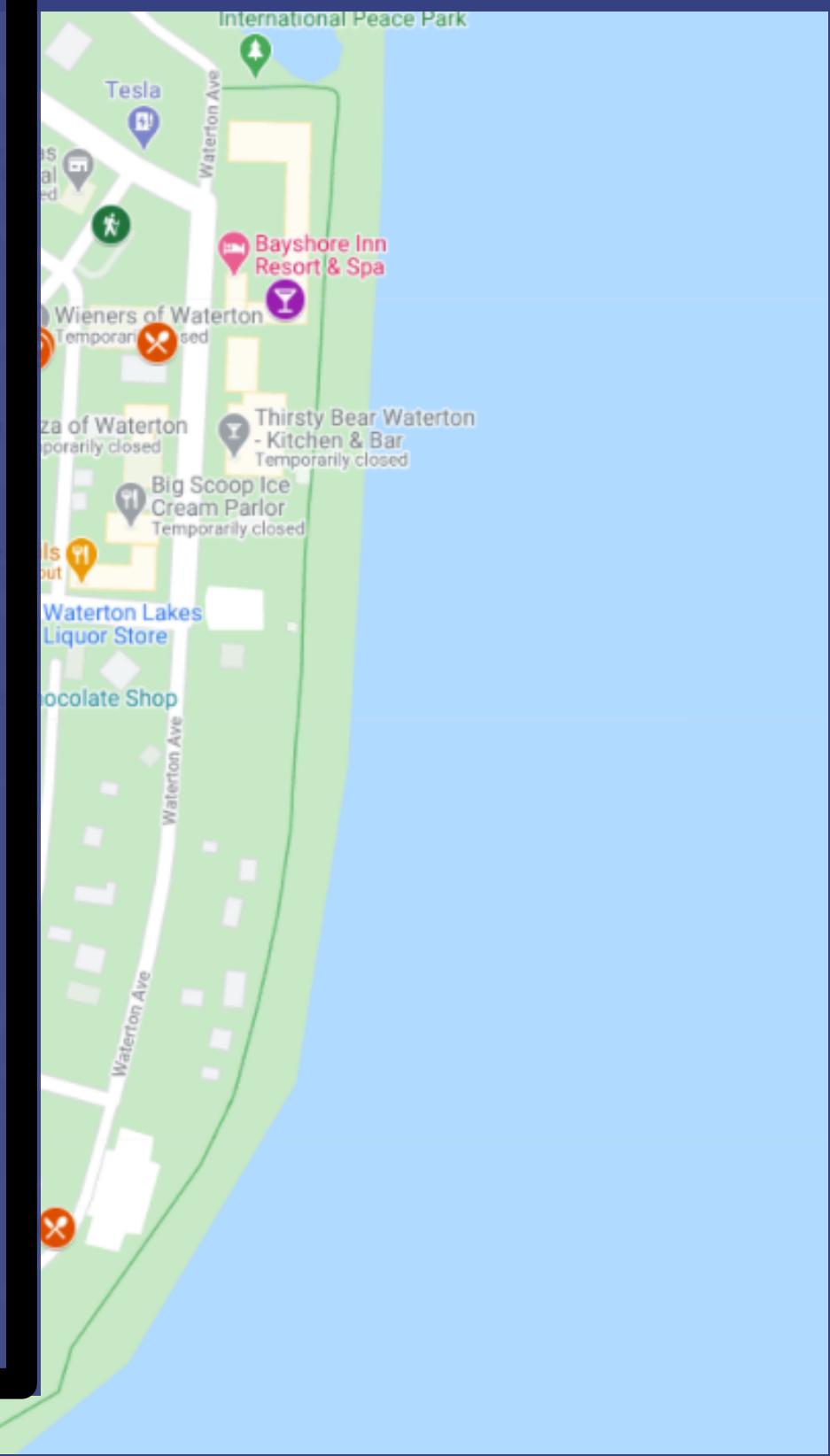
# Directions API by Google

```
▼ root:
  ▼ geocoded_waypoints: []
    10 items
      ▼ 0:
        geocoder_status: "ZERO_RESULTS"
      ▼ 1:
        geocoder_status: "ZERO_RESULTS"
      ▼ 2:
        geocoder_status: "ZERO_RESULTS"
      ▼ 3:
        geocoder_status: "ZERO_RESULTS"
      ▼ 4:
        geocoder_status: "ZERO_RESULTS"
      ▼ 5:
        geocoder_status: "ZERO_RESULTS"
      ▼ 6:
        geocoder_status: "ZERO_RESULTS"
      ▼ 7:
        geocoder_status: "ZERO_RESULTS"
      ▼ 8:
        geocoder_status: "ZERO_RESULTS"
      ▼ 9:
        geocoder_status: "ZERO_RESULTS"
    routes: []
    0 items
  status: "NOT_FOUND"
```

By default, the Directions service calculates a route through the provided waypoints in their given order.

Optionally, you may pass `optimize:true` as the first argument within the `waypoints` parameter to allow the Directions service to optimize the provided route by rearranging the waypoints in a more efficient order.

(This optimization is an application of the traveling salesperson problem.)



# FOURSQUARE API

VENUE SEARCH

VENUE EXPLORE



# FOURSQUARE API

## VENUE SEARCH

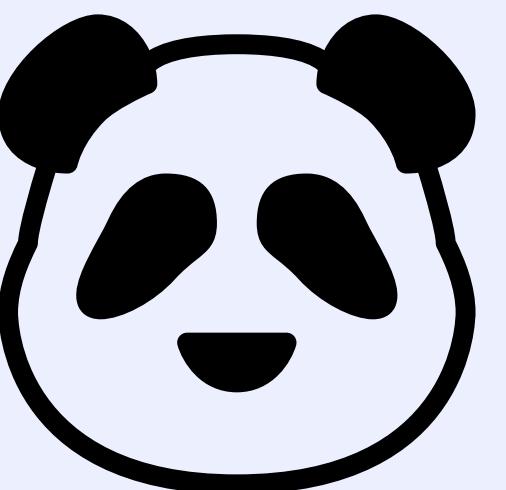
- name,
- business\_id

50

## VENUE EXPLORE

- name,
- business\_id

20

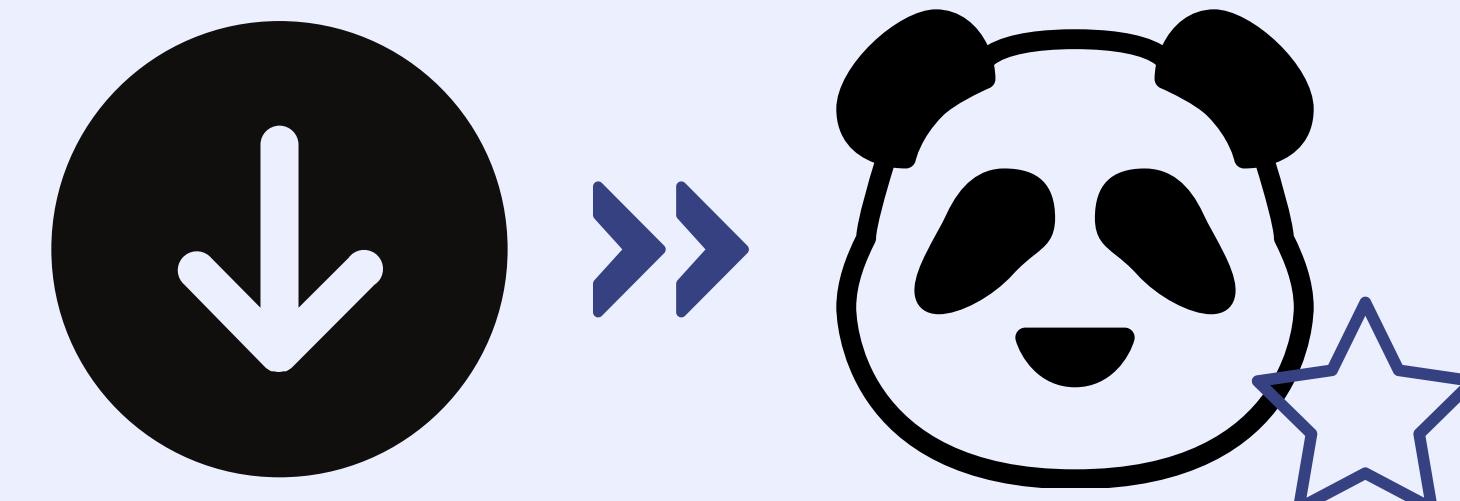




# FOURSQUARE API

**VENUE DETAILS VIA VENUE\_ID**

[https://api.foursquare.com/v2/venues/{venue\\_id}](https://api.foursquare.com/v2/venues/{venue_id})



# STRETCH

RANDOM ASSORTMENT,  
MINIMAL RANKINGS

	name	rating
2	Cameron Falls	6.9
12	Subway	6.4
1	Northland Lodge	NaN
3	Waterton, Alberta	NaN
4	Bertha Trailhead	NaN
5	Zums Eatery	NaN
6	The Church of Jesus Christ of Latter-day Saints	NaN
7	Thirsty Bear Waterton - Kitchen & Bar	NaN
8	Red Rock Canyon	NaN
9	The Church of Jesus Christ of Latter-day Saints	NaN

# EXPLORE

PRE-RANKED,  
RECOMMENDED VENUES

	name	rating
1	Waterton Lakes National Park	8.5
2	Wieners Of Waterton	7.6
3	Prince Of Wales Hotel	7.6
4	Bayshore Inn	7.3
5	Trappers Mountain Grill	7.2
6	Cameron Falls	6.9
7	Waterton Glacier Suites	NaN
8	Red Rock Canyon	NaN
9	Waterton Lakes Lodge	NaN
10	Pizza of Waterton	NaN

# APIS

## FOURSQUARE VENUE SEARCH

most diverse,  
not necessarily  
points of interest

## FOURSQUARE VENUE EXPLORE

diverse, ranked

	<b>name</b>	<b>rating</b>
Waterton Lakes National Park	8.5	
Wieners Of Waterton	7.6	
Prince Of Wales Hotel	7.6	
Bayshore Inn	7.3	
Trappers Mountain Grill	7.2	

## YELP API

highest ease of use,  
limited to food mostly

	<b>name</b>	<b>rating</b>
Waterton Lakes National Park	5.0	
Wieners of Waterton	4.5	
Waffleton	4.5	
49 Degrees North Pizza	4.5	
Wildflower Ave Corner Coffee	4.5	