

Loyda, Jayred

Project Objective:

How can a Disneyland visitor better understand where to spend their time?



Understanding the Problem



The Disneyland Resort in California, at an estimated <u>510</u> <u>acres</u>.



Disneyland and California Adventure, spanning 85 and 75 acres respectively, are some of the most sought after tourist destinations in the world.



The Disneyland park alone averages around 50,000 visitors daily.

Target Audience **Torivitation** **Torivitatio

Disneyland visitors, more so first-timers

*May extend to the Disneyland stakeholders as more people find what peaks their interest.

https://wdwprepschool.com/disney-world-crowd-calendar/february-at-disney-world/

Data Acquisition

Laughing Place

Sources

1. Wikipedia

 For general attraction names and locations

2. <u>LaughingPlace</u>:

 For attraction wait times, ratings, and other details

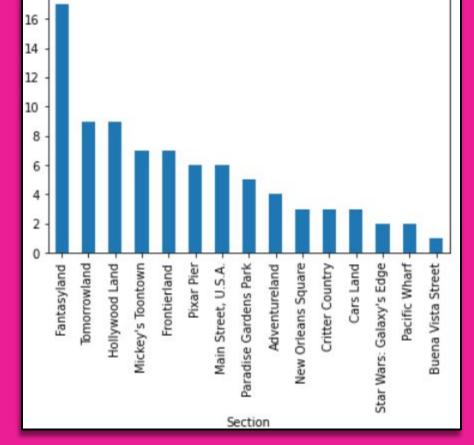
3. Foursquare API

• For accurate location information.



Attractions & Sections Findings

Plotting the number of attractions available in each section of the park reveals that Fantasyland towers over the other sections with 17 attractions available.



of Attractions in Each Section

| | Section | 1st Most Common | 2nd Most Common | 3rd Most Common |
|----|--------------------------|-------------------------------|--------------------------|--------------------------|
| 0 | Adventureland | Thrill Ride (Non- Coaster) | Slow Moving Boat Ride | Walkthrough |
| 1 | Cars Land | Thrill Ride (Non- Coaster) | Walkthrough | Log Flume |
| 2 | Critter Country | Log Flume | Dark Ride | Walkthrough |
| 3 | Fantasyland | Dark Ride | Spinner | Slow Moving Boat Ride |
| 4 | Frontierland | Slow Moving Boat Ride | Rollercoaster | Walkthrough |
| 5 | Hollywood Land | Dark Ride | Drop Ride | Walkthrough |
| 6 | Main Street, U.S.A. | Train | Walkthrough | Log Flume |
| 7 | Mickey's Toontown | Walkthrough | Spinning Dark Ride | Rollercoaster |
| 8 | New Orleans Square | Slow Moving Boat Ride | Walkthrough | Log Flume |
| 9 | Paradise Gardens Park | Spinner | Dark Ride | Rollercoaster |
| 10 | Pixar Pier | Carousel | Rollercoaster | Interactive Dark Ride |
| 11 | Tomorrowland | Monorail | Slow Moving Boat Ride | Car |

Attractions Types & Sections

Listed are the three most common attractions in each section of the parks. From this view it is apparent that California Disneyland Resort favors:

1. Thrill Rides(Non-Coaster)

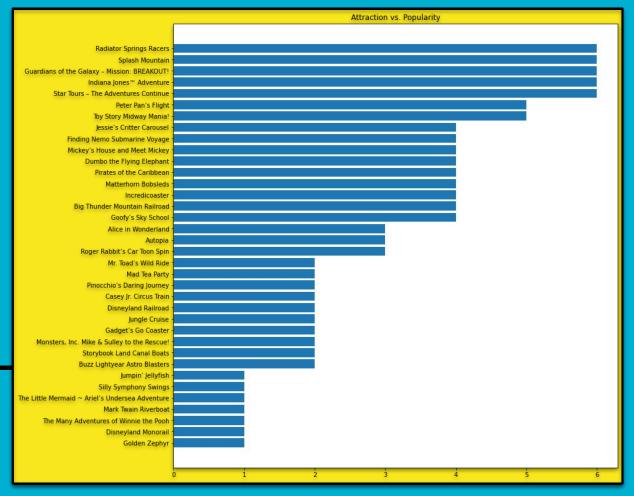
Slow Moving Boat Rides

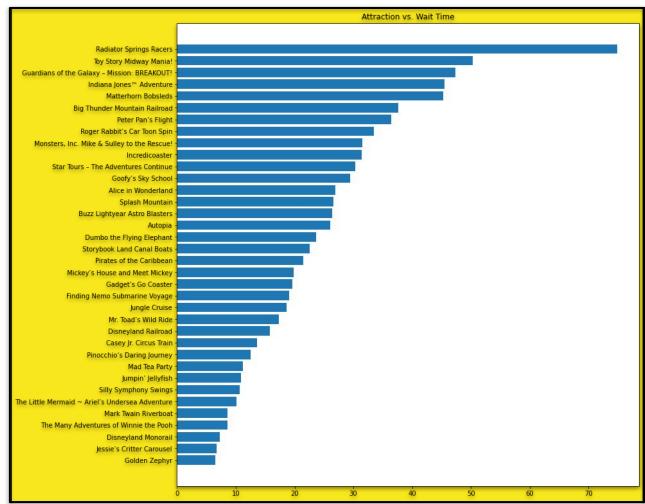
3. Dark Rides.



Popular Attractions

* Popularity of an attraction is found through the number of attendees that visit the attraction and the overall rating of the ride.





Attractions & Wait Times

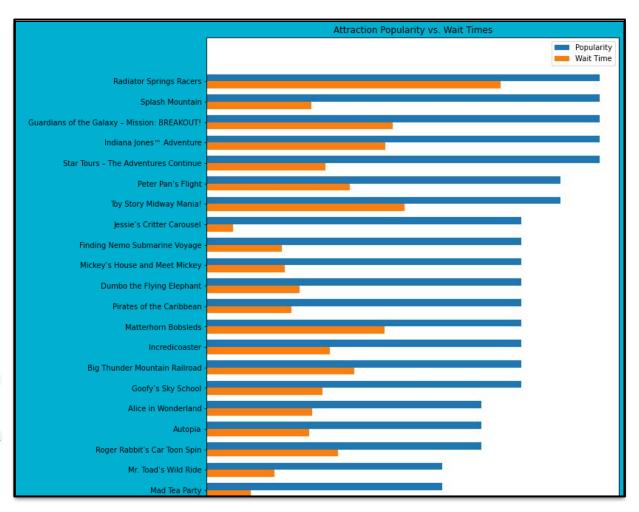
*Average wait times listed



Attraction Popularity vs Wait Findings Times

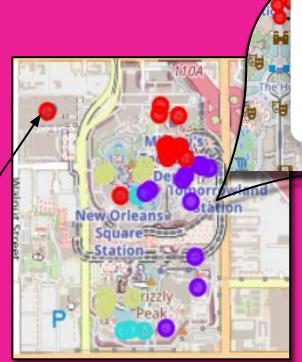
Features do not share a linear relationship.

A ride such as "Monsters, Inc. Mike & Sulley to the Rescue!" finds it's visitors in line longer than its relative popularity would have them believe

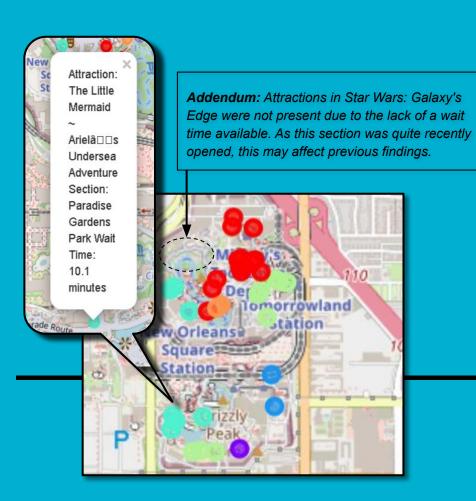


Attraction Popularity Clusters

Addendum: It seems that the "Alice in Wonderland" ride returns the wrong coordinates when sent through the Foursquare API, as the final clustering places it in the parking lot.



Attraction:
Space
Mountain
Section:
Tomorrowland
Popularity:
Very Heavy



Attraction Wait Time Clusters

Conclusion

Tomorrowland and Fantasyland host highly **Popular Sections** popular attractions and are likely to be the higher traffic areas in the two parks. The three most common types of rides at the park are Thrill Rides(Non-Coaster), Slow Moving Ride Types Boat Rides, and Dark Rides. "Radiator Springs Racers" is the most popular attraction and holds the longest average wait Popular Attractions time Attraction popularity does not directly correlate Popularity vs. Wait to wait time.

Future Directions

- 'Disneyland Go' website and mobile app may aid in the problem of losing attractions that don't have wait times or information available.
- Including prices and destinations such as eateries and shops would vastly increase the usefulness of this study as the attractions are only a fragment of what visitors aim to see.
- Adding other Disney theme park locations such as Disney World, Disney Paris, and Disney Tokyo could allow for visitors to find a location that features more of what they favor.
- A content-based recommender system could be incorporated into users with a Disney+ account, as they could be offered a tailor-made experience based on their favorite movies, shows, characters, etc.

