

Result of Visualization of Mini Challenge 1

Tools Used:

- 1) Tableau
- 2) Python

Results:

First, by looking into the data and by considering the location attributes(X and Y) we were able to visualize the following graph as shown below

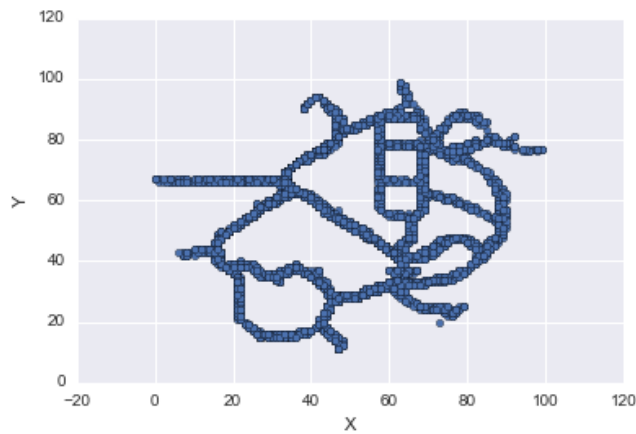


Fig 1 : Friday

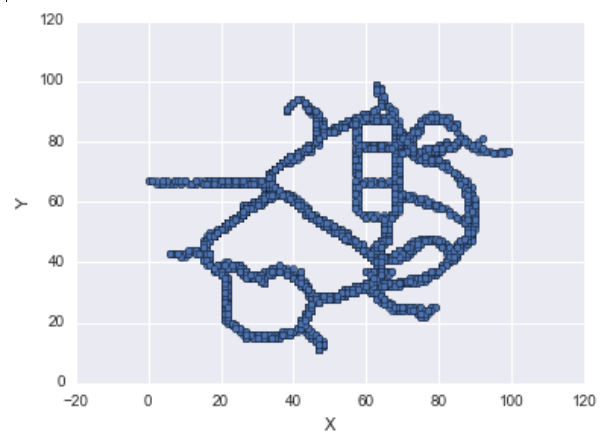


Fig 1(a) : Sat

It looks similar to the map given in the website of Challenge.

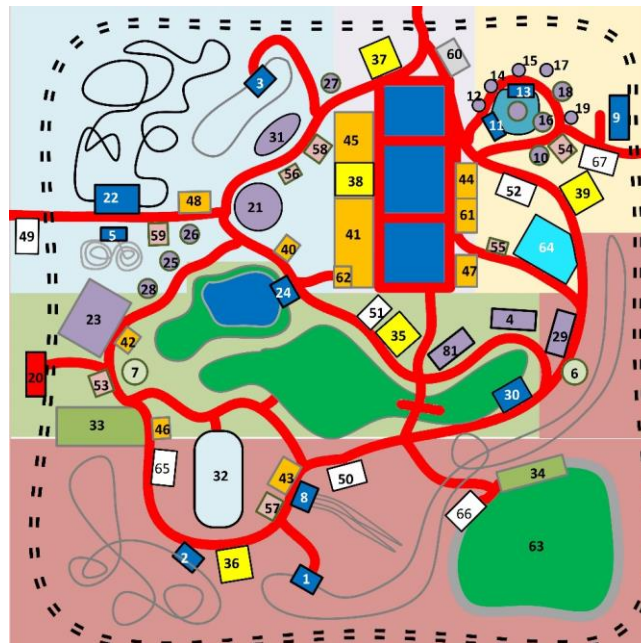


Fig 2 : Park Map

Let us look into the type attribute whose value is “check-in”. Here we plotted check-in points with respect to the coordinates of the map from the given data.

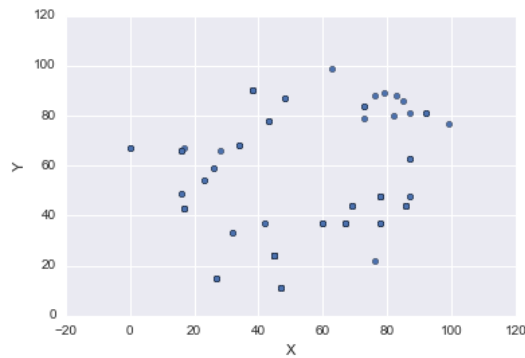


Fig 3 : Check-in (Fri)

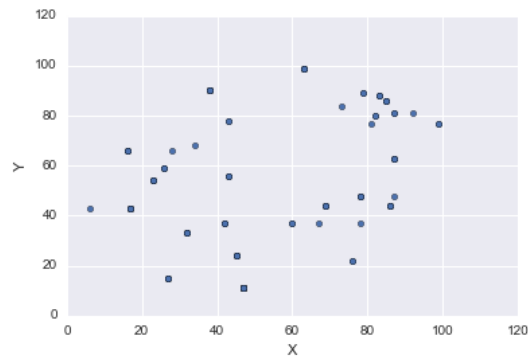


Fig 3(a) : Check-in (Sat)

From the above plot we can see that, more check-in's are done from Kiddie Land.

Most Popular locations where visitors visited most:

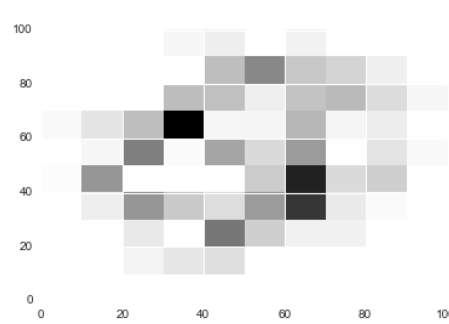


Fig 4 : Most Visitors (Fri)

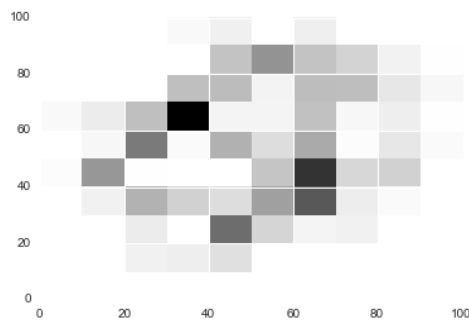


Fig 4 (a) : Most Visitors (Sat)

From the above pictures, we can say that visitors mostly concentrated in The Magic Cavern (Num: 48) followed by Flight of the swingodon (Num:81) and Ichthyoroberts Rapids (Num: 30).

Analysis with respect to a Single Random Person:

Single Person visiting the areas of map:

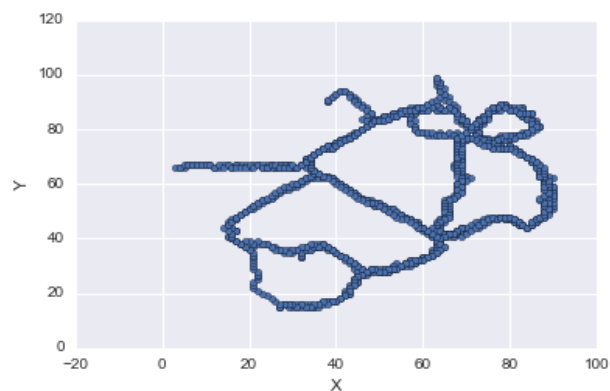


Fig 5 : Most common areas (fri)

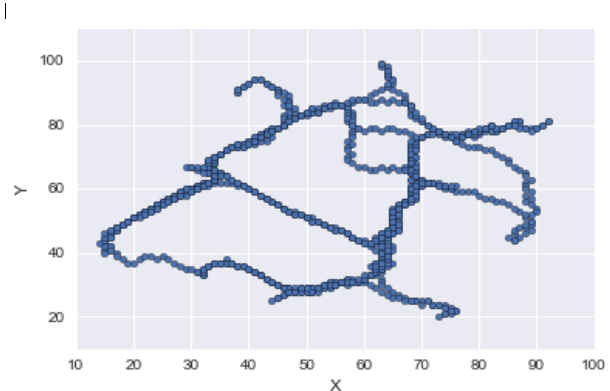


Fig 5(a) : Most common areas (Sat)

We selected one random person on each day(Fri & Sat so two different persons) and tracked his path throughout the map and the corresponding plot is shown above.

Single Person w.r.t time:

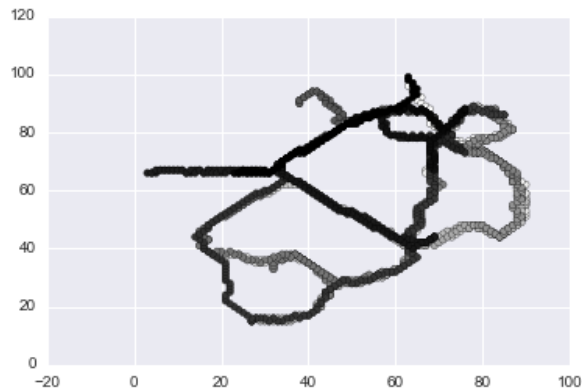


Fig 6 : Person wrt Time (fri)

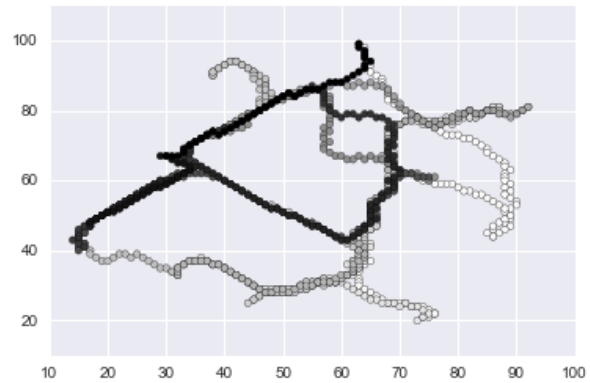


Fig 6(a) : Person wrt Time(sat)

The above plot is to identify the a random person spending time at different places. Here the darker line indicates the user spent more time in Dinofun World.

At what time do the guests arrive?

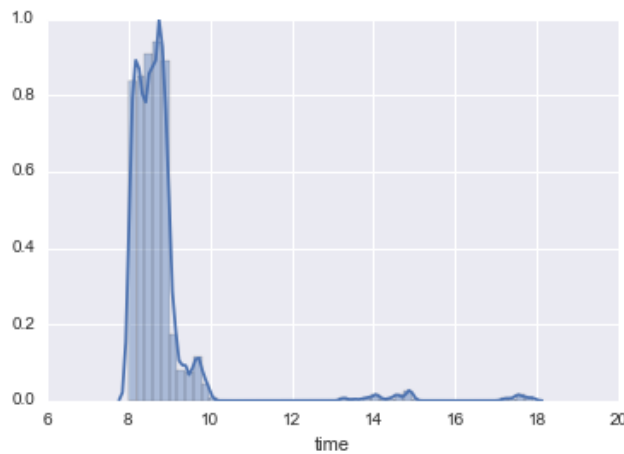


Fig 7 : Guests arrival time (fri)

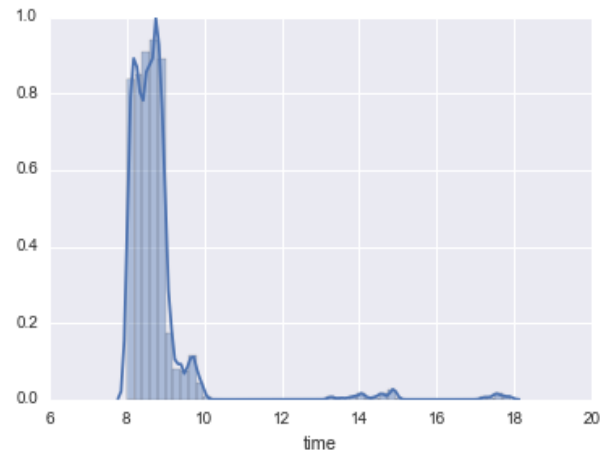


Fig 7(a) : Guests arrival time(sat)

From the Above Figures we can say that guests arrive on an average at 9.00 AM. There are also few people who arrived the Dinofun world after 10 AM.

Visitors over the period of time:

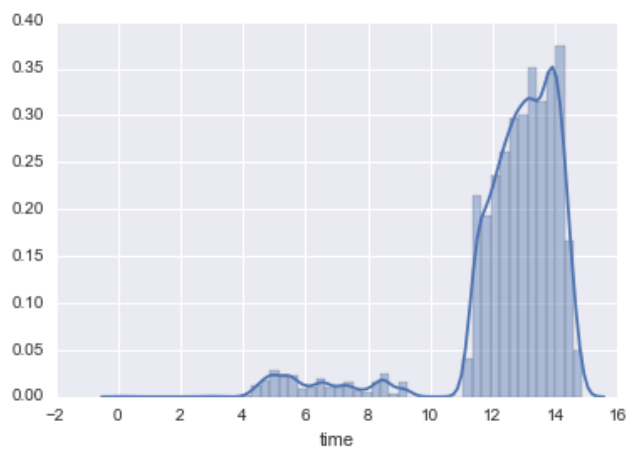


Fig 8 : Visitors count (fri)

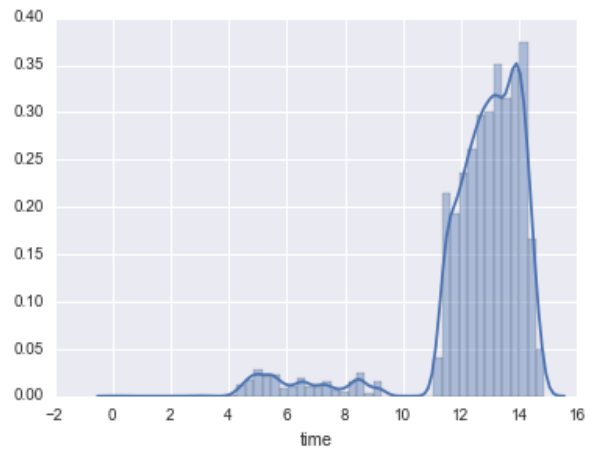


Fig 8(a) : Visitors Count (sat)

This graph provide us the percentage of visitors active within the regions of Dinofun world from time to time. People were high in number between 11 AM to 3 PM.

Occupancy of park place at different points of time :

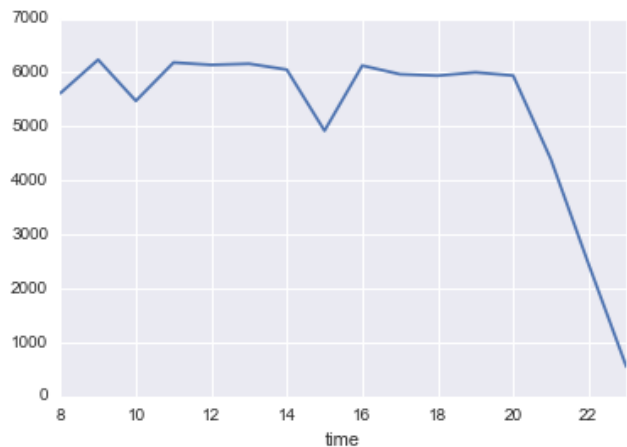


Fig 9 : Occupany(fri)

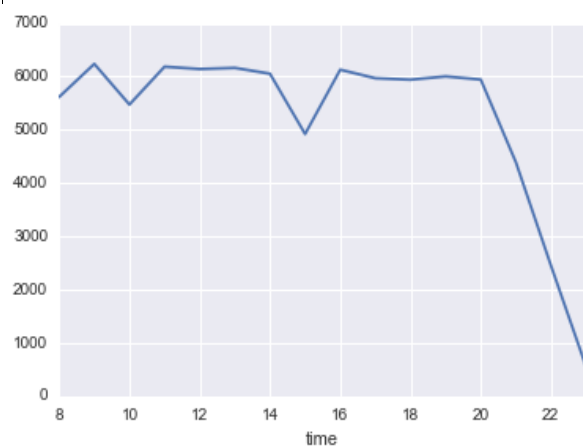


Fig 9(a) : Occupany(sat)

From this plot, we can determine that Dinofun World was running or busy with visitors from morning 8.00 AM till after 10.00 PM. From the graph it is evident that, most of the people started leaving the Dinofun World at 8.00 PM. From the Above Figures we can say that guests depart on an average at 9.00 PM.

Visitors count :

There are 7 different kind of Groups among visitors on Friday, Saturday and Sunday

The number of visitors is 3557 for Friday

The number of visitors is 6411 for Saturday

The number of visitors is 7871 for Sunday