Project Title: Visualization of Divvy bike sharing system of Chicago, Illinois

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Dataset Name: DIVVY's competition on Divvy Bike Sharing Dataset

- ➢ Divvy_Trips_2016_Q1Q2.zip

Dataset Description:

- ➢ Divvy is a bicycle sharing system located in the City of Chicago operated by Motivate for the Chicago Department of Transportation.
- ➢ Based on our dataset it seems to operates at 535 stations in an area bounded by 75th Street on the south, Central Street in Evanston on the north, Lake Michigan on the east, and Pulaski Road on the west.
- ➢ Data generated by the IoT (network KIOSK) at each docking stations throughout the city attracts researchers because of the diversified information present as part of this dataset
- ➢ Bike sharing systems therefore function as a sensor network, which can be used for studying mobility in a city

URL Details:

- ➢ We can obtain this dataset from official DIVVY website.

https://www.divvybikes.com/system-data

Problem Description:

- ➢ We are asked to visualize the data set shared by DIVVY and find values from the dataset through visualization methods thought as part of course CSC-465

Proposed Approach:

In Scope
Exploratory Data Visualization
2D Visualization
Network or Cluster Visualization
Volumetric Visualization
Geo-spatial Visualization

Details that would be visualized
Usage over time
Bi-cycle usage based on gender
Top 10 Stations
Most Travelled Path to Riders
Riding pattern of customer's vs subscribers

Extra Mile (Shadow Scope)
Exploring DIVVY dataset with weather data of Chicago

Reference:

- *http://www.redeyechicago.com/news/redeye-divvy-data-challenge-entry-26-20150330-htmlstory.html*

- *http://transitized.com/divvy-vs-transit/*

GitHub Repository: All project deliverables including datasets can found in our GitHub page