04/02/2017 Meeting Notes

Red:useful
Brown:need research
Black:手动再见

1. Agency: One or more transit agencies that provide the data in this feed.

1 attribute 手动再见

2. Stops (2496 x 10): Individual locations where vehicles pick up or drop off passengers.

Attributes:stop_id,stop_code,stop_name,stop_desc,stop_lat,stop_lon,zone_id,stop_url,location_type,parent_station

related with stop time
visualization -> trees 静态 不加拖条
shapes + stops
stop -> density, time/distance interval
input time - > bus distrubution [bar plot]

#stop in total,
routes length(hist),xxxxx
average stop interval(hist),
每个stop每个hour停车次数

3. Routes(101 x 9):Transit routes. A route is a group of trips that are displayed to riders as a single service.

Attributes:route_id,agency_id,route_short_name,route_long_name,route_desc,route_type,route_url,route_color,route_text_color
route type: all buses 继续手动再见
routes - # of trips [BUSY]

4. Trips:Trips for each route. A trip is a sequence of two or more stops that occurs at specific time.

Attributes:route_id,service_id,trip_id,trip_headsign,direction_id,block_id,shape_id
运营频率(每个route每天/每周有多少班)：hist avr/comparison
间隔时间：白天晚上 周中周末
不同时段trip数量：hist
block id？

5. Stop times:Times that a vehicle arrives at and departs from individual stops for each trip.

Attributes:trip_id,arrival_time,departure_time,stop_id,stop_sequence,stop_headsign,pickup_type,drop_off_type

站点平均停车时间：pie chart, hist, boxing,

6. Calendar(288x10): Dates for service IDs using a weekly schedule. Specify when service starts and ends, as well as days of the week where service is available.

Attributes:
service_id,monday,tuesday,wednesday,thursday,friday,saturday,sunday,start_date,end_date
data: 0 1st column : MF　第一列很奇怪
持续手动再见么么哒

7. Calendar dates: Exceptions for the service IDs defined in the calendar.txt file. If calendar_dates.txt includes ALL dates of service, this file may be specified instead of calendar.txt.

Attributes: service_id,date,exception_type ----> calendar(service id) ?????有毒 需要cleaning

8. fare_attributes:Fare information for a transit organization's routes.

就俩attributes 没用 再见

9. fare_rules: Rules for applying fare information for a transit organization's routes.

数据都一样 没卵用？？？
Attributes: fare_id,route_id,origin_id,destination_id,contains_id
attributes 的影响:

- Fare depends on origin or destination stations.
  Fare depends on which zones the itinerary passes through.
  Fare depends on which route the itinerary uses

10. shapes: Rules for drawing lines on a map to represent a transit organization's routes.

shapes -> density(different colors) interaction coverage (w. googleMap,周围覆盖区域，覆盖的更高一点) length time in total

11. UML:relationships between files, combination(advanced)

12. Requirements:

Why you took the approach you did
Strengths of your approach
Weaknesses of your approach
What you wished you had been able to do (if anything)
Who in the group contributed each part of the visualization (from code, data management, data cleaning, write-up, and so on.)

Useful links:
http://mbtaviz.github.io/

http://www.datablick.com/blog/2015/05/05/building-a-visualization-of-transit-system-data-using-gtfs

Coding: Xinyu BAOBAO (Shapes- Lines), Jiang BABA (Stops - Plots)
Hist: Guan BABA(4), Jialu BAOBAO(2,3)

DDL1: Friday 5am
Meeting #1: on/after class