Plans, Meet Operations

Exercise 2: AVL & GTFS

Learning objectives: exercise 2

- Following this exercise, participants should:

    - understand schedule matching by time and location
    - define & calculate on-time performance
    - design an interactive map display of performance

Instructions

1. examine the two data sets (GTFS & AVL)
   - what columns would allow joining one to the other?
   - join the AVL data *to* the schedule

2. code or pseudo-code the answer to the following queries:
   1. how many scheduled trips have at least one missing AVL record?
   2. what is the average *adherence* (scheduled time - actual time) for the day?
   3. specify a standard for being "on time" (in seconds or minutes)
      - according to your standard, what % of stop visits are on time?

3. design a map view of these data
   - how would a user understand on time performance?

challenge task: how would you approach this problem if AVL data lacked the stop identifier?
   1. ignore the column you used to join the AVL data and try again…