

# Hands-On Assignment

1. Install VisTrails 2.1.5:

*<http://vistrails.org/index.php/Downloads>*

2. Download MTA workflow:

*<http://bigdata.poly.edu/~fchirigati/mda-class/mta-analysis.vt>*

# Hands-On Assignment

- Using *mta-analysis.vt* as a starting point, do the following analyses in VisTrails (be creative!):
  1. Show in a table all the subway stations from the **Queens** line. Tag the corresponding workflow version as *Task 1*.
  2. Using the given fare card usage dataset, compare the total AirTrain full fare (**AIRTRAIN FF**) usage between **Fulton Street**, **Broadway**, and **Jamaica** lines; you can choose how to show this information (in standard output, in a plot, in tables, ...). Tag the corresponding workflow version as *Task 2*.
  3. Compare the full fare (**FF**) card usage in the **Fulton Street** line between the periods of 10/20/2012-10/26/2012 ([http://web.mta.info/developers/data/nyct/fares/fares\\_121103.csv](http://web.mta.info/developers/data/nyct/fares/fares_121103.csv)) and 10/27/2012-11/02/2012 ([http://web.mta.info/developers/data/nyct/fares/fares\\_121110.csv](http://web.mta.info/developers/data/nyct/fares/fares_121110.csv)); use a **bar plot**. Tag the corresponding workflow version as *Task 3*. *How are the amounts different? Why do you think the results look like this?*