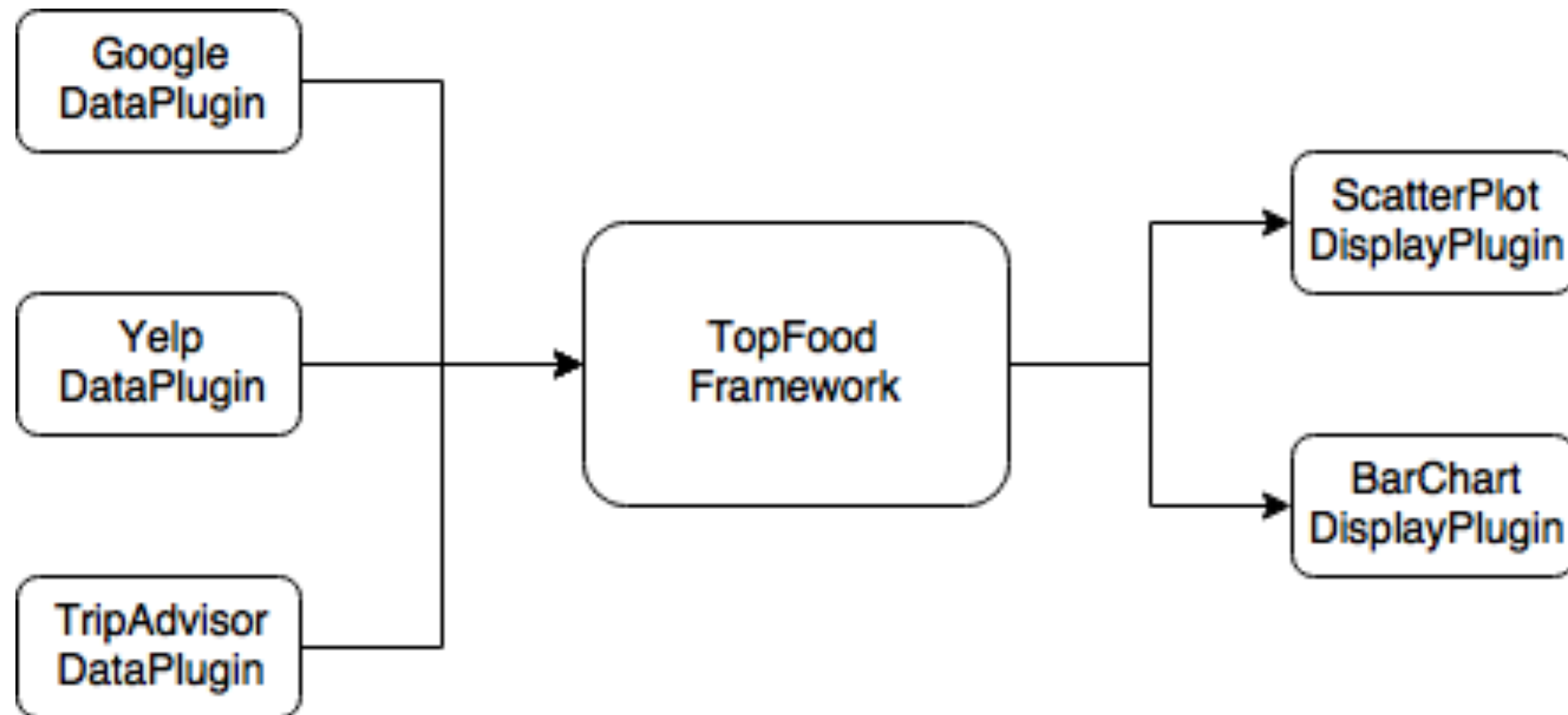


# TopFood

An extensible data visualization and analysis  
framework for restaurants

# Domain

**How many reviews have been made for this restaurant?  
What is the distribution of the number of reviews of restaurants?**



# Framework & Plugins

- The Google Places API provides a JSON object for each restaurant, which includes all comments made on the restaurant.
- The Yelp Database provides a JSON list in the “business” database, which includes a variable names “review count” that tells how many reviews have been made on the restaurant.
- We want to use JFreeChart for bar charts and histograms.
- **What’s reused?**
  - The control flow that takes the list of all restaurants in a city from an arbitrary source by providing a city name, manipulate the data, and display an arbitrary visualization.

# Project Structure

- **Main Project**
  - edu.cmu.cs.cs214.hw5.framework
    - core
      - <interface> TopfoodFramework
      - TopfoodFrameworkImpl
      - <interface> TopfoodChangeListener
    - gui
      - TopfoodFrameworkGui
  - edu.cmu.cs.cs214.hw5.plugin
    - <interface> dataplugin
    - <interface> displayplugin
- **Data Plugin Project**
  - edu.cmu.cs.cs214.dataplugin
    - YelpDataPlugin
    - GoogleDataPlugin
    - TripadvisorDataPlugin
- **Display Plugin Project**
  - edu.cmu.cs.cs214.displayplugin
    - BarChartDisplayPlugin
    - ScatterPlotDisplayPlugin
    - PieChartDisplayPlugin

# UML Diagram

