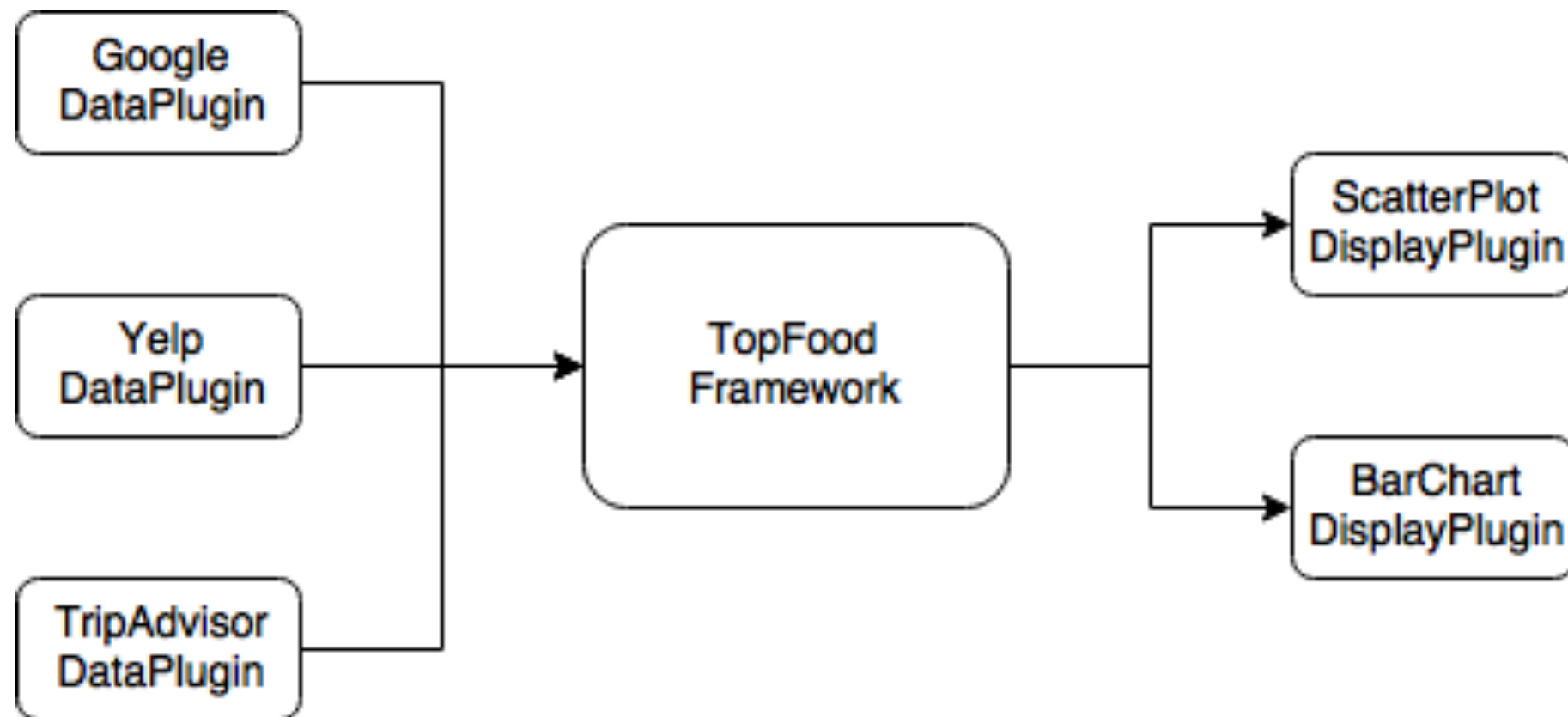


TopFood

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

Plugin Interfaces