

# Correlation Report

Li Zheng

## Concept

The main idea is that I want to correlate the data of checked out books from Seattle Public Library and the data of articles containing key words “China” and “Japan” in New York Times from the year 2005 to 2011.

By executing SQL query, we can get data from Seattle Public Library and store it in .txt file. We can use the Article API which is provided by New York Times to get the data, store the data in JSONObject, and then parse it.

In the project, we can click mouse or press the keyboard to switch between the result from Seattle Public Library and that from New York Times.

## Query and Request

*Seattle Public Query:*

```
select year(cout), month(cout), count(*) from inraw where cout >= '2005-01-01'
and year(cout) < '2012-01-01'and title like '%China%' group by year (cout),
month(cout) order by year (cout), month(cout);
```

```
select year(cout), month(cout), count(*) from inraw where cout >= '2005-01-01'
and year(cout) < '2012-01-01'and title like '%Japan%' group by year (cout),
month(cout) order by year (cout), month(cout);
```

*New York Times Request:*

```
String request = baseUrl + "?query=" + word + "&begin_date=" + beginDate +
"&end_date=" + endDate + "&api-key=" + apiKey;
String result = join( loadStrings( request ), "");
JSONObject nytData = new JSONObject(join(loadStrings(request), ""));
```

## Data

Data is contained in the CSV file.

## Doodle

