

MAT 259, Assignment 3, Data Correlation
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History of Best-sellers vs Total number of checkouts

Concept:

In Assignment 2, I had observed the checkouts per month for some of the top manga between 2006 and 2011 in a 2D Spatial map. In this assignment of data correlation, I will be using almost the same list of manga and will count the total number of checkouts for every manga in the list from the Seattle Public Library. I will compare this with the total number of best-sellers for every manga from the NY Times best-seller history list. The list of manga considered are:

1. Naruto
2. Bleach
3. One Piece
4. Fairy Tail
5. Dengeki Daisy
6. Skip Beat
7. Vampire Knight
8. Black Bird
9. Soul Eater
10. Rosario-Vampire

MySQL Query:

A sample query to count the total number of checkouts for a manga ('naruto') will be like:

```
SELECT count(*) FROM spl2.inraw  
where (title like "%snaruto%" and itemtype="acbk")  
and deweyClass = "741.5952";
```

NYTimes Query:

A sample query to get the history of best-sellers for a manga ('naruto') will be like:

<http://api.nytimes.com/svc/books/v2/lists/best-sellers/history.json?title=naruto&api-key={}>

Doodle:

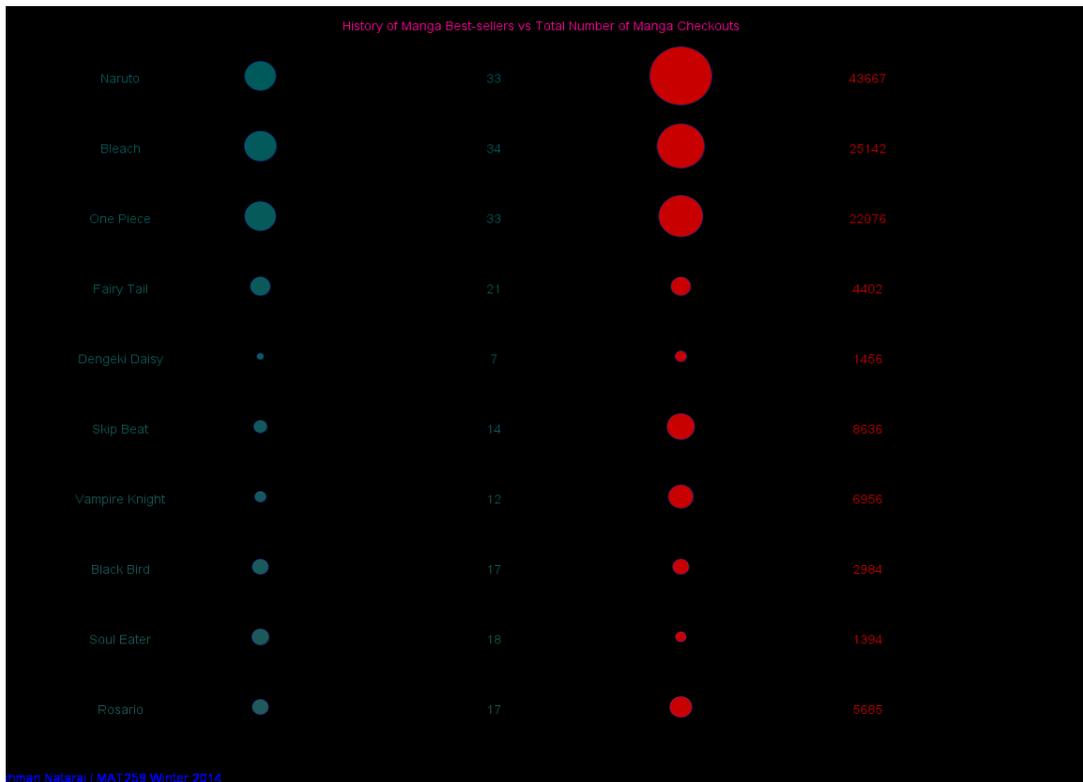
A hand-drawn table with three columns: the first column lists titles, the second column is labeled 'NYT' and the third is labeled 'SPL'. Each row contains a title, a small circle, a number, another small circle, and a number. The entries are: Naruto (35, 44000), Bleach (25, 40000), One Piece (30, 3000), and Rosario (5, 20000). There are also some faint marks and a vertical line of dashes between the first and second columns.

	NYT	SPL
Naruto	35	44000
Bleach	25	40000
One Piece	30	3000
...		
Rosario	5	20000

Challenges:

One of the main challenges was understanding the NY Times API.

Sample Visualization:



We see that there is a stunning correlation between the manga checkouts from Seattle Pubic Library and the number of manga in the history of best-sellers from NY Times.

Since this is a simple visualization, I plan to add extra objects like mouse hovering, changing the correlation diagram (like histograms, scatter plots) on keyboard change.