Unit | Project

Faye Lopez

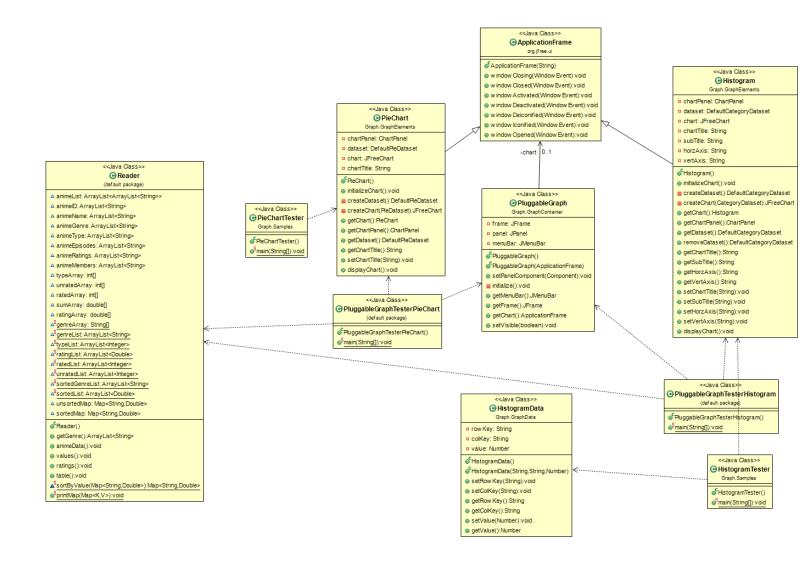
Psuedocode

```
for i: to array length:i++
    double ratenumber:=0
    If (ratings is empty AND genre(i) contains genre(j))
        ratenumber := 0
        unratedArray[j] := unratedarray +1
    else if( genre(i) contains genre(j))
        ratenumber := ratings(i);
        ratedArray[j] +:=1
```

For loop in Reader.java under ratings() method

-The loops gets the total number of times each genre was rated and how many times it was not rated.

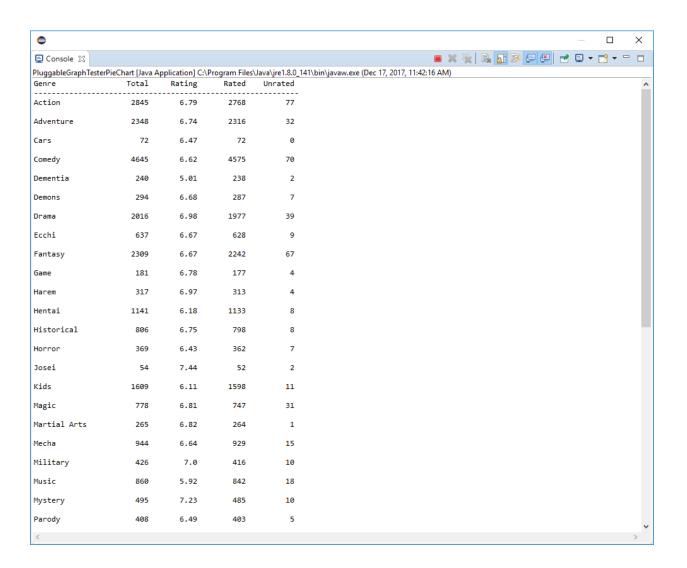
UML

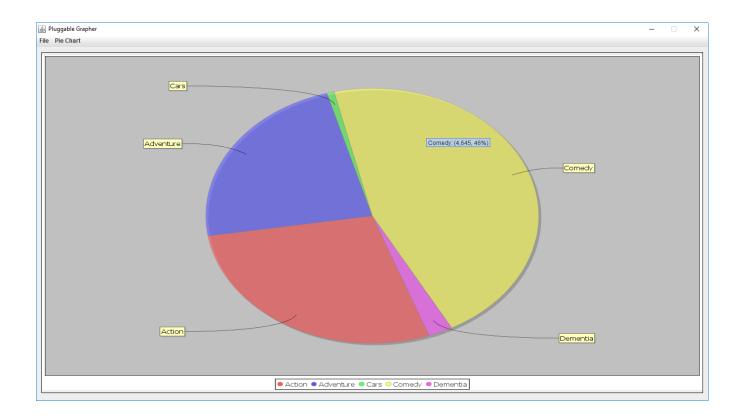


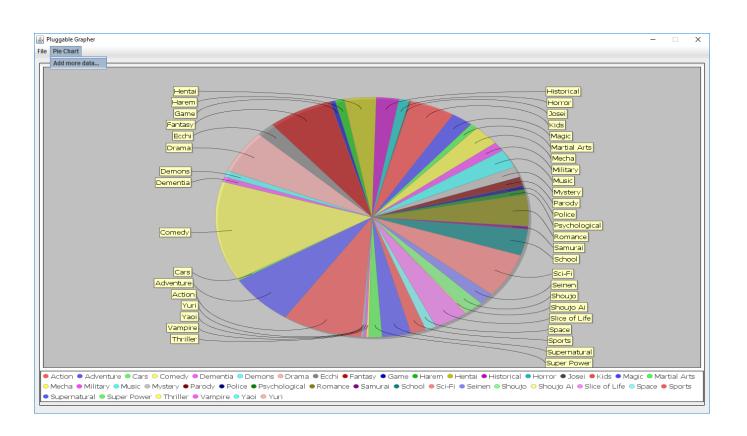
Source code attached as "Graph".

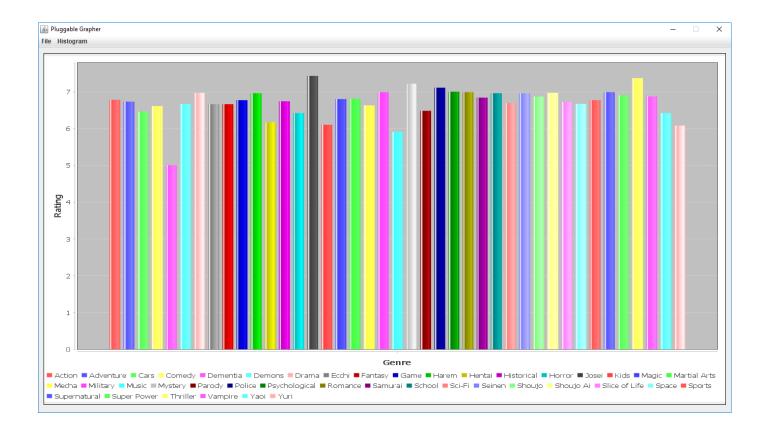
- v 📂 Graph
 - - 🗸 🌐 (default package)
 - PluggableGraphTesterHistogram.java
 - PluggableGraphTesterPieChart.java
 - > 🚺 Reader.java
 - Graph.GraphContainer
 - > I PluggableGraph.java
 - 🗸 🌐 Graph.GraphData
 - FunctionGrapherData.java
 - > II HistogramData.java
 - Graph.GraphElements
 - > In FunctionGrapher.java
 - > / Histogram.java
 - > DieChart.java
 - Graph.Samples
 - FunctionGrapherTester.java
 - › I HistogramTester.java
 - > I PieChartTester.java
 - JRE System Library [JavaSE-1.8]
 - Referenced Libraries
 - > 🎏 lib
 - anime.txt

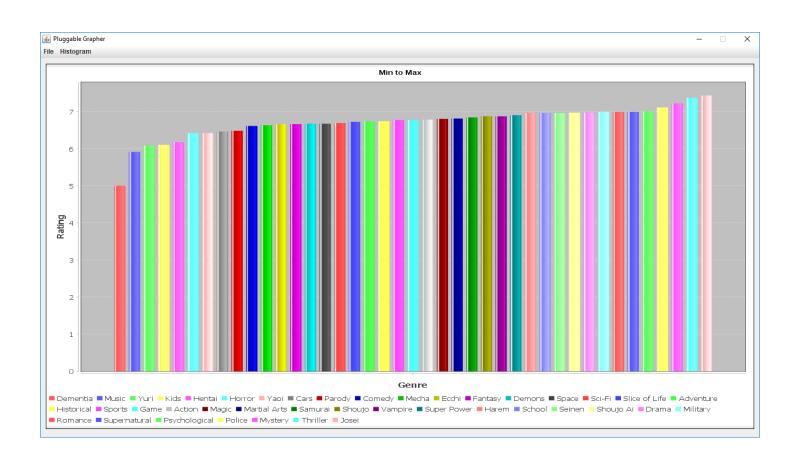
Program Output:

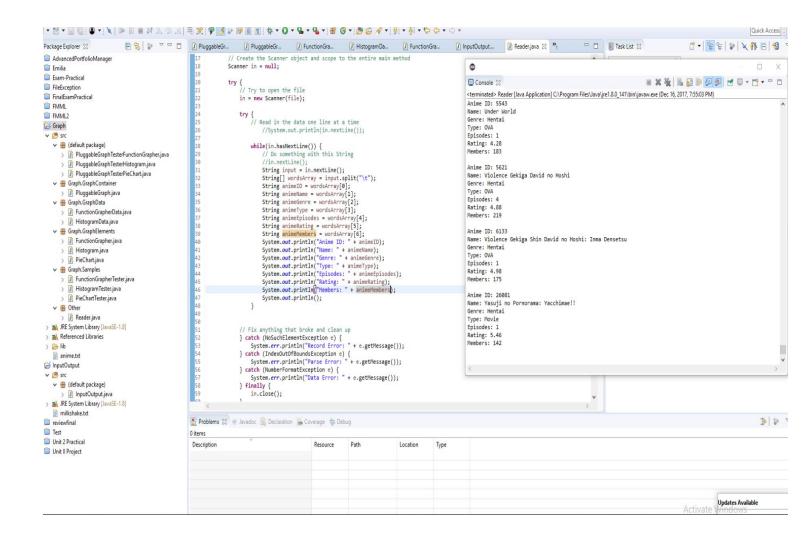














PluggableGraphTesterHistogram [Java Application] C:\Program Files\Java\jre1.8.0_141\bin\javaw.exe (Dec 17, 2017, 2:45:14 PM)

Super Power	465	6.91	451	14
Thriller	87	7.38	86	1
Vampire	102	6.88	100	2
Yaoi	39	6.43	38	1
Yuri	42	6.09	41	1
Total:	34557	7.0	33897	660

Sorted List By Rating

Key: Dementia Value: 5.01
Key: Music Value: 5.92
Key: Yuri Value: 6.09
Key: Kids Value: 6.11
Key: Hentai Value: 6.18
Key: Horror Value: 6.43
Key: Yaoi Value: 6.43
Key: Cars Value: 6.47
Key: Parody Value: 6.49
Key: Comedy Value: 6.62
Key: Mecha Value: 6.64
Key: Ecchi Value: 6.67
Key: Fantasy Value: 6.67

Key: Fantasy Value: 6.67 Key: Demons Value: 6.68 Key: Space Value: 6.68 Key: Sci-Fi Value: 6.7

Key : Slice of Life Value : 6.73 Key : Adventure Value : 6.74 Key : Historical Value : 6.75 Key : Sports Value : 6.78

Key : Game Value : 6.78 Key : Action Value : 6.79 Key : Magic Value : 6.81 Key : Martial Arts Value : 6.82

Key : Samurai Value : 6.85 Key : Shoujo Value : 6.88 Key : Vampire Value : 6.88 Key : Super Power Value : 6.91

Key : Super Power Value : 6.91 Key : Harem Value : 6.97 Key : School Value : 6.97 Key : Seinen Value : 6.97 Key : Shoujo Ai Value : 6.98 Key : Drama Value : 6.98

Hypothesis

What is the most popular genre in anime?

The anime.txt dataset contains data about:

- Anime ID Number
- Anime Title
- Anime Genre
- Anime Type
- Anime Episodes
- Anime Rating
- Anime Members

I took all of this data and separated each anime by Genre. The following information resulted.

- Total Anime: 34557
 - o Total number of genres: 40
 - Genre containing most Anime:
 - Comedy (4645)
 - Rating: 6.62
 - Rated 4575 times.
 - Unrated 70 times.
 - o Genre containing least Anime:
 - Yaoi (39)
 - Rating: 6.43
 - Rated 38 times.
 - Unrated 1 times.
 - Highest rated genre:
 - Josei (54)
 - Rating: 7.44
 - Rated 52 times.
 - Unrated 2 times.
 - Lowest rated genre:
 - Dementia (240)
 - Rating: 5.01
 - Rated 238 times.
 - Unrated 2 times.

With this information we can see that the **most popular** genre in anime is **Comedy** according to *absolute* data. It is the genre that contains the most Anime along as the most ratings.

Yaoi has the least Anime.

However, if we consider *relative* data, we can see that the genre **Josei** has the **highest** rating ranking out of all the other genres.

Dementai has the lowest rating.



adjective

 liked, admired, or enjoyed by many people or by a particular person or group. "she was one of the most popular girls in the school" synonyms: well liked, favored, sought-after, in demand, desired, wanted; More

Conclusion: Comedy is the most popular genre in anime since it is the genre with that has the most amount Anime and a relatively high rating of 6.62 among 4575 ratings.