

**Check the version of browser.**

Chrome above 38

Firefox above 37

Safari above 7.1

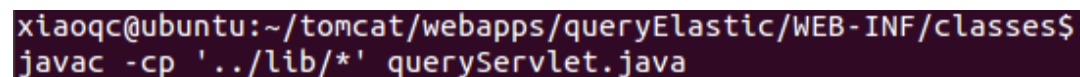
**If you only need to compile queryServlet.java**

1. Open a terminal and change path.

```
cd $CATALINA_HOME/webapps/queryElastic/WEB-INF/classes
```

2. Compile .java file

```
javac -cp '../lib/*' queryServlet.java
```

A terminal window with a dark background. The prompt is 'xiaoqc@ubuntu:~/tomcat/webapps/queryElastic/WEB-INF/classes\$'. The command entered is 'javac -cp '../lib/\*' queryServlet.java'.

3. Type in following URL and run the visualization.

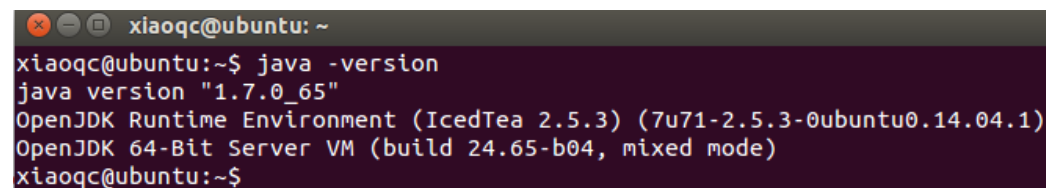
<http://localhost:8080/queryElastic/servlets/socialVis/socialVis.html>

**If you need to deploy the whole stack from sketch**

1. Check Java version

Open terminal and copy following line.

```
java -version
```

A terminal window with a dark background. The prompt is 'xiaoqc@ubuntu: ~'. The command entered is 'java -version'. The output is: 'java version "1.7.0\_65"', 'OpenJDK Runtime Environment (IcedTea 2.5.3) (7u71-2.5.3-0ubuntu0.14.04.1)', 'OpenJDK 64-Bit Server VM (build 24.65-b04, mixed mode)'. The prompt returns to 'xiaoqc@ubuntu:~\$'.

2. Download Tomcat 8.0

<http://mirror.sdunix.com/apache/tomcat/tomcat-8/v8.0.20/bin/apache-tomcat-8.0.20.tar.gz>

3. Extract the download file

```
cd <path to download folder>
```

```
tar -xzf apache-tomcat-8.0.20.tar.gz
```

4. Set environment variables

```
export JAVA_HOME=<path to jdk>
```

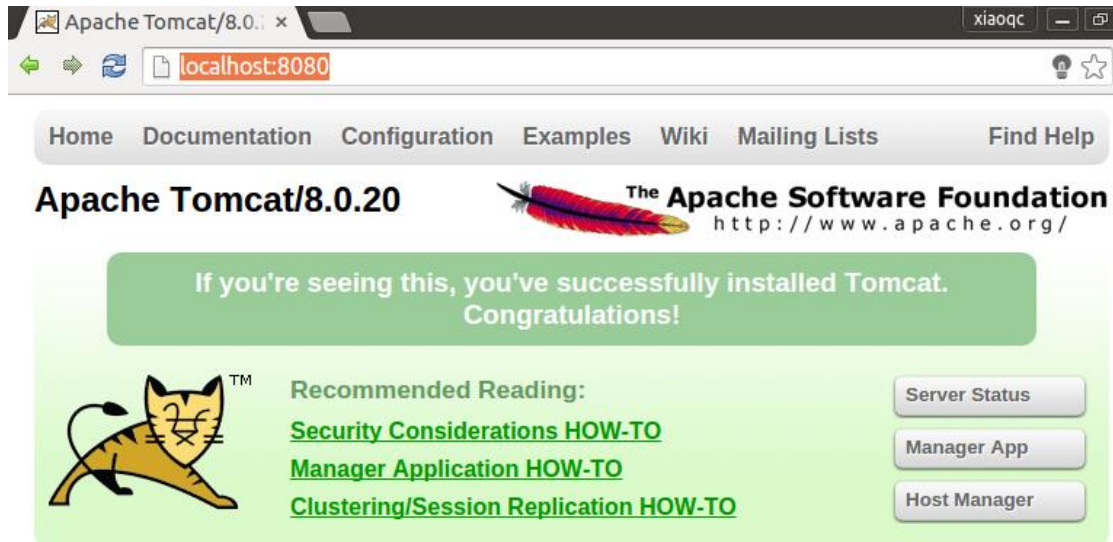
```
export CATALINA_HOME=<path to tomcat>
```

5. Run tomcat

```
$CATALINA_HOME/bin/startup.sh
```

6. Test tomcat

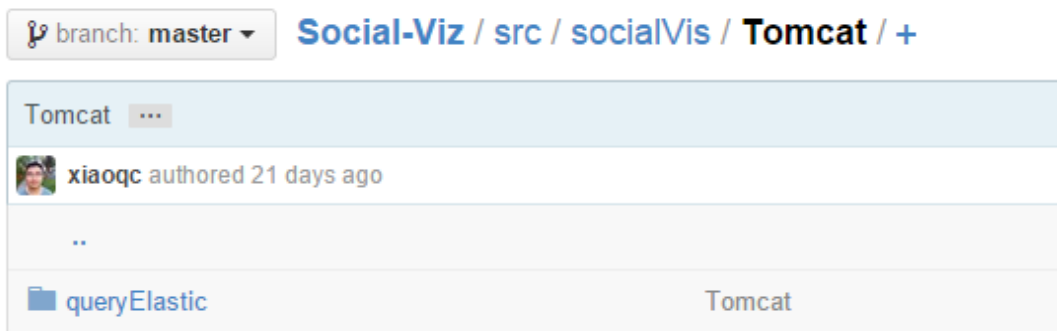
Try <http://localhost:8080/> in your browser.



## 7. Deploy Java servlet

Copy the folder of “queryElastic” from Github

<https://github.com/usc-isi-i2/Social-Viz/tree/master/src/socialVis/Tomcat/>



1) Put the folder under tomcat /webapps

2) Open a terminal and change path:

```
cd $CATALINA_HOME/webapps/queryElastic/WEB-INF/classes
```

3) Compile .java file

```
javac -cp './lib/*' queryServlet.java
```

```
xiaoqc@ubuntu:~/tomcat/webapps/queryElastic/WEB-INF/classes$  
javac -cp './lib/*' queryServlet.java
```

It will generate several .class files.

```
xiaoqc@ubuntu:~/tomcat/webapps/queryElastic/WEB-INF/classes$ ls  
queryServlet.class  
queryServlet$ElasticToSchema1$1.class  
queryServlet$ElasticToSchema1$2.class  
queryServlet$ElasticToSchema1.class  
queryServlet$ElasticToSchema1$Cluster.class  
queryServlet$ElasticToSchema1$Node.class  
queryServlet.java  
queryServlet$queryElastic.class
```

8. Try the webpage

Run the following lines in terminal to restart tomcat.

```
$CATALINA_HOME/bin/shutdown.sh
```

```
$CATALINA_HOME/bin/startup.sh
```

Put this URL to your browser.

<http://localhost:8080/queryElastic/servlets/socialVis/socialVis.html>

Write query on the left panel.

Start Date: 2014-07-01

End Date: 2014-07-31

MaxNode: 50

Click search button.

Wait for tens of second to retrieve data.

Then visualization will be shown.

