



Java Plays : Watson Lab

Presented by:

IBM

ECOD

IBM Cloud

AGENDA

- ❑ Purpose of This Lab
- ❑ Pre-Requisites
- ❑ Create a New Java Project
- ❑ Add Dependency Jar
- ❑ Run PersonalityInsights Java Snippet
- ❑ Run All Watson Services Java Snippets

Purpose of This Lab

In this lab, you will learn how to use Watson Services to leverage Cognitive Computing and Social Media data in the Cloud.

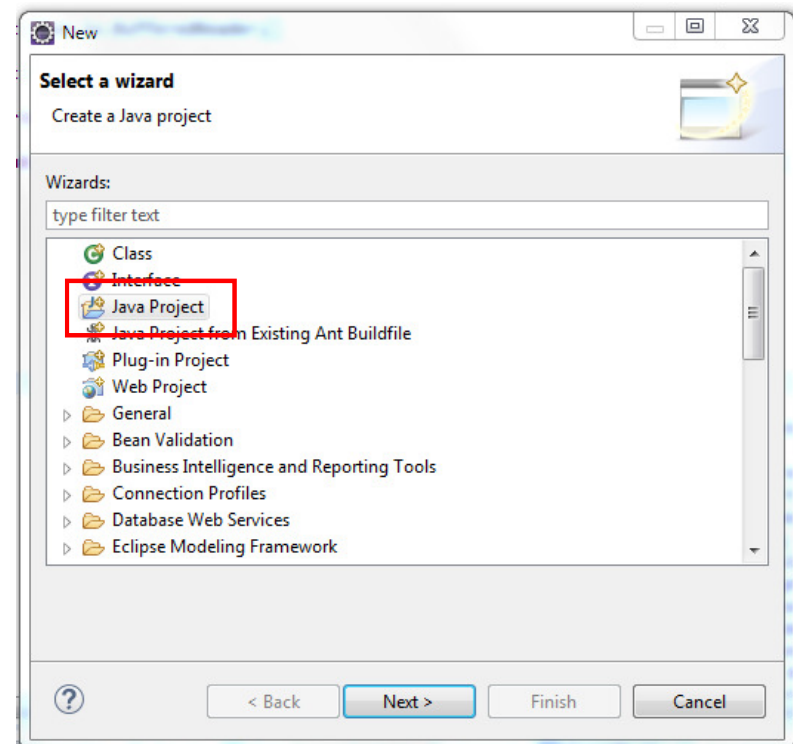
Pre-Requisites

☐ Install Eclipse Mars

☐ Install Java JDK 1.7

Step 1: Create a New Java Project

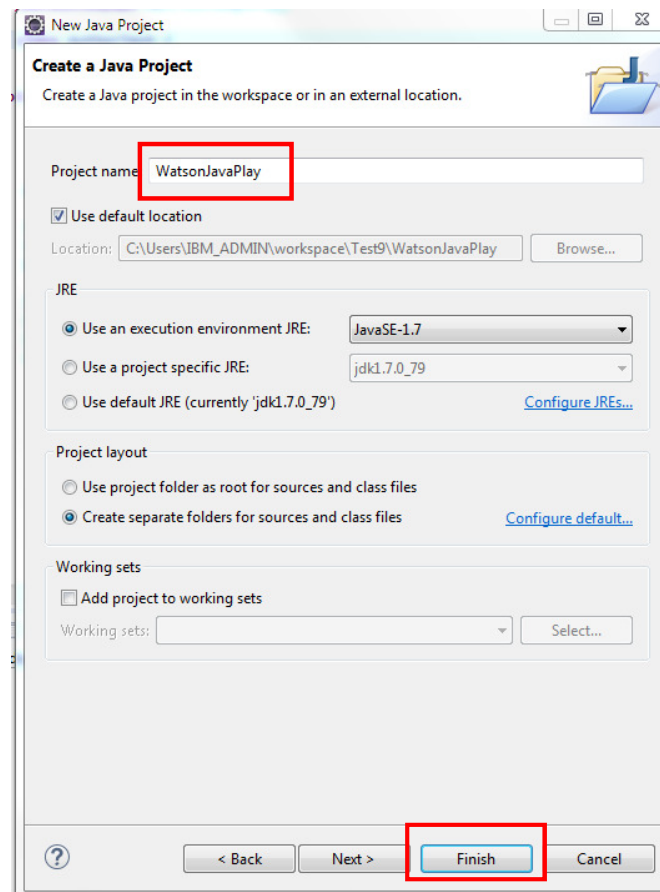
- ❑ Open your local Eclipse pointing to your preferred workspace.
- ❑ Click left upper top menu, File >> New >> Java Project.



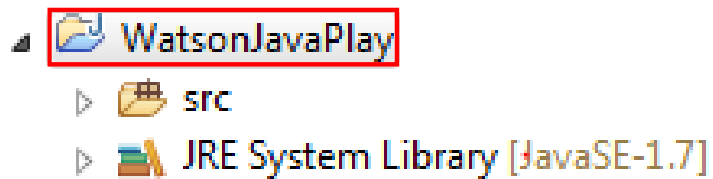
☐ Click Next.

☐ Name the project, WatsonJavaPlay.

☐ Click Finish.



☐ You have successfully created a Java project.

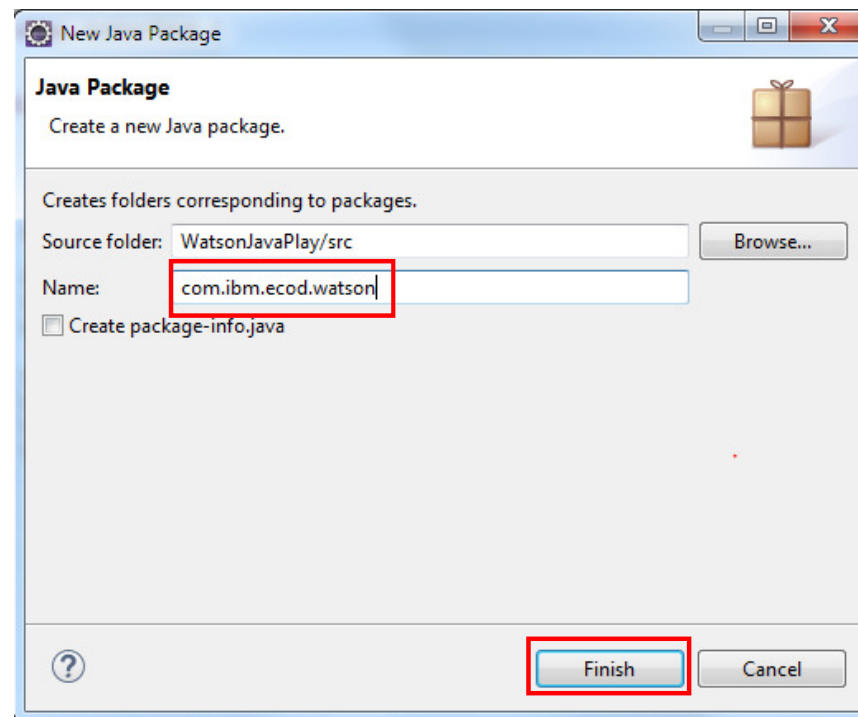


☐ Right click on the project.

☐ Select New >> Package.

☐ Name the package as **com.ibm.ecod.watson**

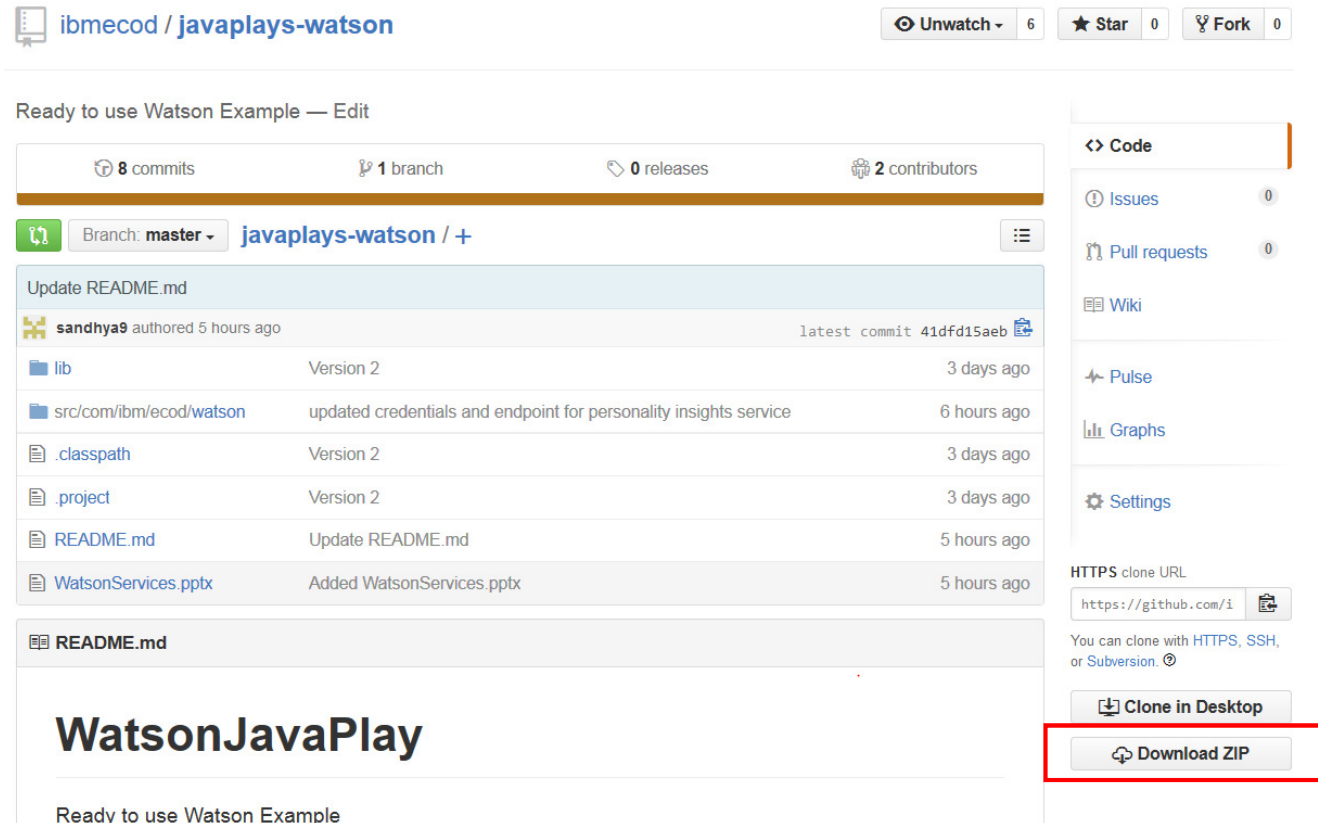
☐ Click Finish.



Step 2: Add Dependency Jar

❑ Go to JavaPlays-Watson GitHub repository at <https://github.com/ibmecod/javaplays-watson>

❑ Click Download Zip.



ibmecod / **javaplays-watson** Unwatch 6 Star 0 Fork 0

Ready to use Watson Example — Edit

8 commits 1 branch 0 releases 2 contributors

Branch: master javaplays-watson / +

Update README.md

sandhya9 authored 5 hours ago latest commit 41dfd15aeb

lib	Version 2	3 days ago
src/com/ibm/ecod/watson	updated credentials and endpoint for personality insights service	6 hours ago
.classpath	Version 2	3 days ago
.project	Version 2	3 days ago
README.md	Update README.md	5 hours ago
WatsonServices.pptx	Added WatsonServices.pptx	5 hours ago

README.md

WatsonJavaPlay

Ready to use Watson Example

Code

- Issues 0
- Pull requests 0
- Wiki
- Pulse
- Graphs
- Settings

HTTPS clone URL

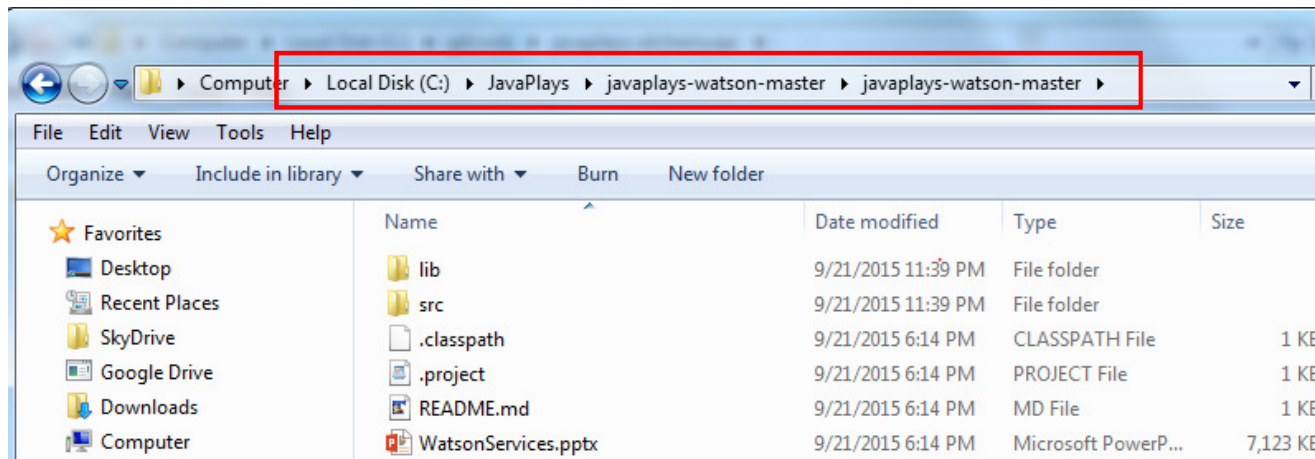
<https://github.com/ibmecod/javaplays-watson>

You can clone with HTTPS, SSH, or Subversion.

Clone in Desktop

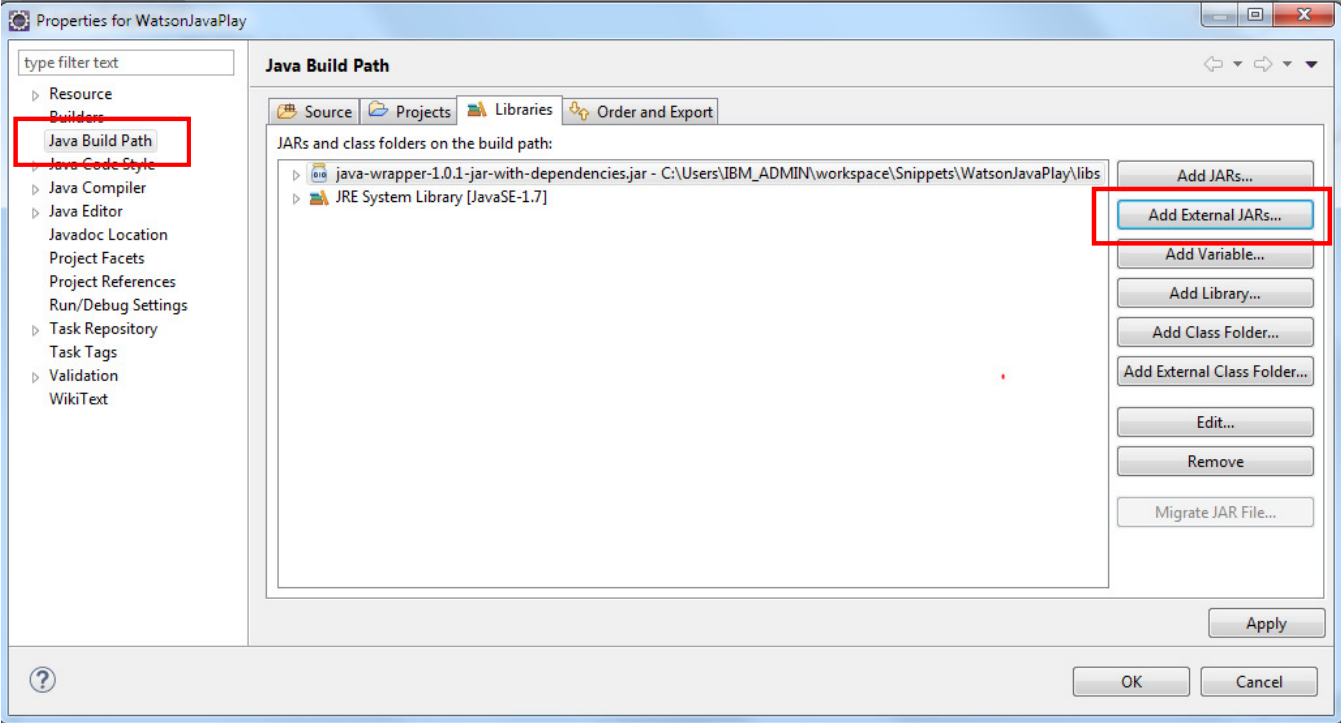
Download ZIP

- ❑ Unzip the downloaded file in your local folder.



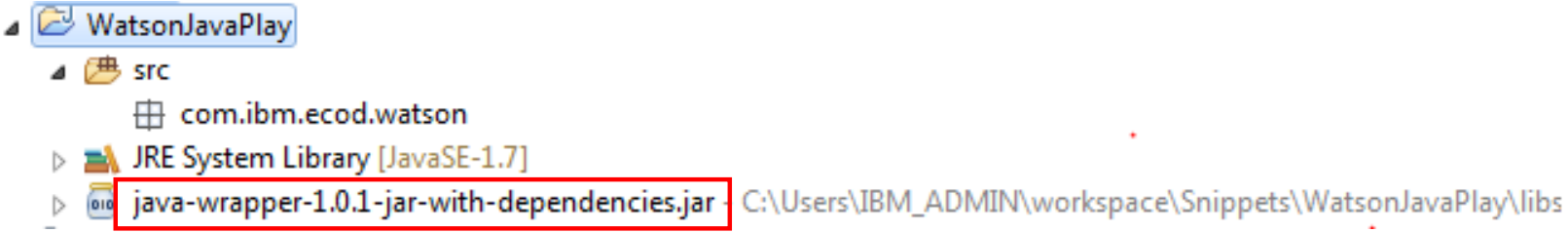
- ❑ Right click on your new Eclipse project >> Click Properties at the bottom.

- ❑ Select Java Build Path.
- ❑ Click on Libraries tab >> Click Add External JARs.



- ❑ Select java-wrapper-1.0.4-jar-with-dependencies.jar from your unzipped folder. e.g. \javaplays-watson-master\lib

❑ Click OK.



❑ Now, you are ready to add code using Watson Services.

Step 3: Run PersonalityInsights Java Snippet

❑ Create a new class in **com.ibm.ecod.watson** package you created in the new Eclipse project, WatsonJavaPlay.

❑ Double click the following Java file to copy and paste the code in your class

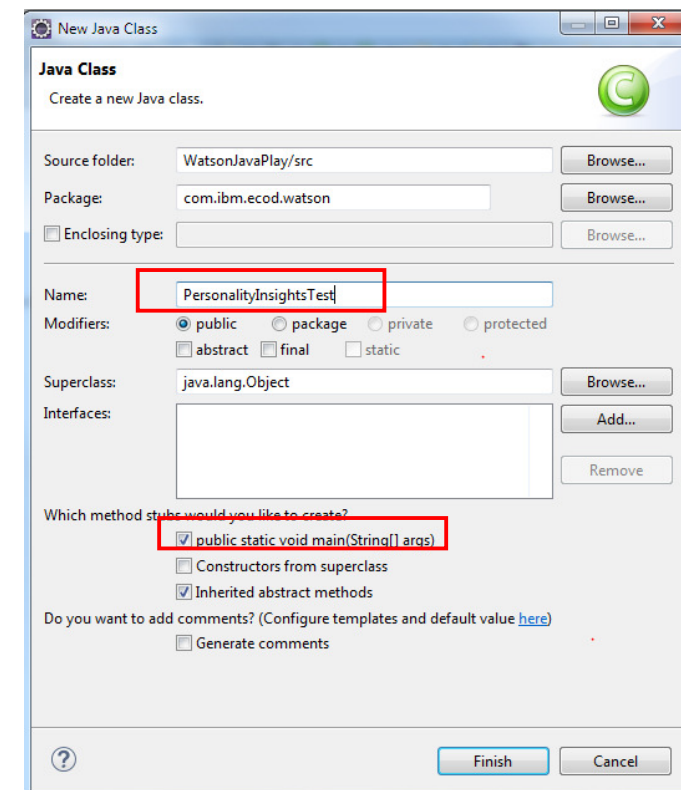


PersonalityInsightsTest.java

❑ Right click on the class.

❑ Select Run As >> Java Application.

❑ You will see the following result.



```
Markers Properties Servers Data Source Explorer Snippets Console Annotations
<terminated> PersonalityInsightsTest [Java Application] C:\Program Files\Java\jdk1.7.0_79\bin\javaw.exe (Sep 22, 2015, 12:06:38 AM)
com.ibm.watson.developer_cloud.personality_insights.v2.model.Profile {
  "id": "**UNKNOWN**",
  "source": "**UNKNOWN**",
  "tree": {
    "children": [
      {
        "children": [
          {
            "category": "personality",
            "children": [
              {
                "category": "personality",
                "children": [
                  {
                    "category": "personality",
                    "id": "Adventurousness",
                    "name": "Adventurousness",
                    "percentage": 0.7235792561229227,
                    "sampling_error": 0.052624727200000006
                  },
                  {
                    "category": "personality",
                    "id": "Artistic interests",
                    "name": "Artistic interests",
                    "percentage": 0.22754315621160756,
                    "sampling_error": 0.1074764877
                  }
                ]
              }
            ]
          }
        ]
      }
    ]
  }
}
```

```
Markers Properties Servers Data Source Explorer Snippets Console Annotations
<terminated> PersonalityInsightsTest [Java Application] C:\Program Files\Java\jdk1.7.0_79\bin\javaw.exe (Sep 22, 2015, 12:06:38 AM)
{
  "category": "personality",
  "id": "Emotionality",
  "name": "Emotionality",
  "percentage": 0.32451695365350636,
  "sampling_error": 0.049160298399999997
},
{
  "category": "personality",
  "id": "Imagination",
  "name": "Imagination",
  "percentage": 0.8643165822730222,
  "sampling_error": 0.06650209430000001
},
{
  "category": "personality",
  "id": "Intellect",
  "name": "Intellect",
  "percentage": 0.9159420567470554,
  "sampling_error": 0.0581493521
},
{
  "category": "personality",
  "id": "Liberalism",
  "name": "Authority-challenging",
  "percentage": 0.963460891736637,
  "sampling_error": 0.0861347002
}
```

❑ Replace lines 34 through 59 with a paragraph of your choice and run the PersonalityInsights snippet again.

Step 4: Run All Watson Services Java Snippets

❑ Repeat the same steps defined in step 3 to run each of the following Java Classes.



ConceptExpansionTest.java



MachineTranslationTest.java



LanguageIdentificationTest.java



QuestionAndAnswerTest.java



RelationshipExtractionTest.java

This ends the Watson Java Play Lab.

Thank you !