

GitHub Repositories and Eclipse Setup

For MacOS

Fork GitHub Repositories

For this workshop you need to fork two GitHub repositories:

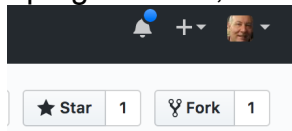
- <https://github.com/sbl-sdsc/mmtf-spark>
- <https://github.com/sbl-sdsc/mmtf-workshop-2017>

Forking will create your own copy of these two repositories in **your** GitHub account. See also <https://help.github.com/articles/fork-a-repo/>

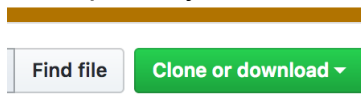
Fork mmtf-spark

Navigate to <https://github.com/sbl-sdsc/mmtf-spark>

In the top right corner, click Fork.



On GitHub, navigate to **your fork** of the mmtf-spark repository. Under the repository name, click **Clone or download**.



In the Clone with HTTPs section, copy the clone URL for the repository.

Open a Terminal window.

Create a directory MMTF_Git in your home directory or location of your choice and cd into the directory

```
mkdir MMTF_Git  
cd MMTF_Git
```

Then create a clone of your fork by typing

```
git clone https://github.com/your-username/mmtf-spark
```

Fork mmtf-workshop-2017

Now repeat this process for <https://github.com/sbl-sdsc/mmtf-workshop-2017>

Note, you already created the MMTF_Git directory, skip this step, but be sure to
cd MMTF_Git

before you clone mmtf-workshop-2017

Create Eclipse Workspace

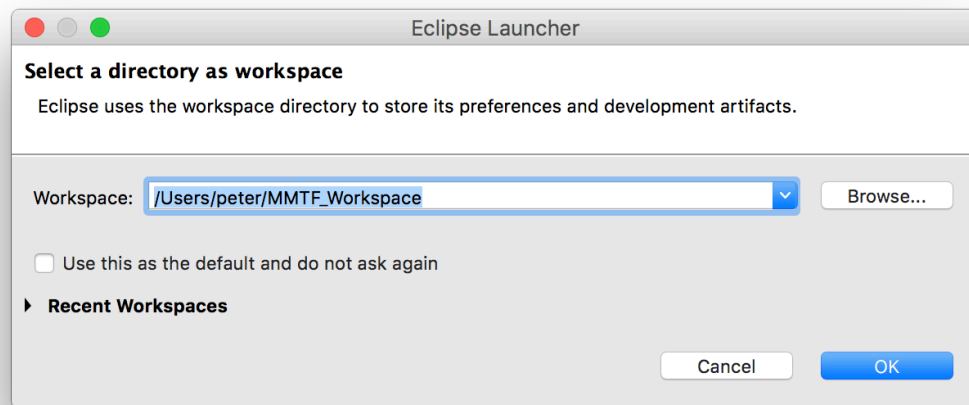
Open a Terminal window.

In your home directory, or other location of your choice, create a directory called MMTF_Workspace

```
cd  
mkdir MMTF_Workspace
```

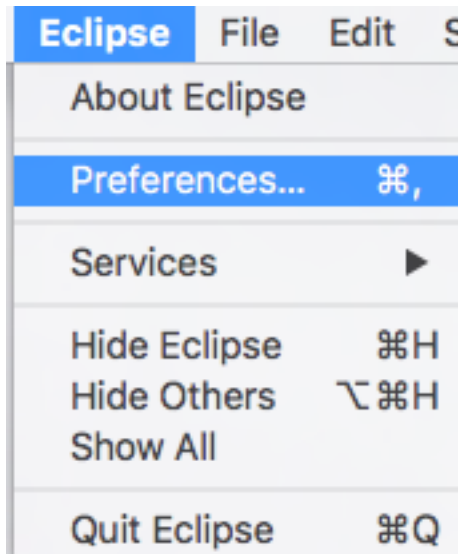
Launch Eclipse.

When Eclipse starts up, it prompts for a workspace directory, click browse and navigate to this workspace. Then click ok.

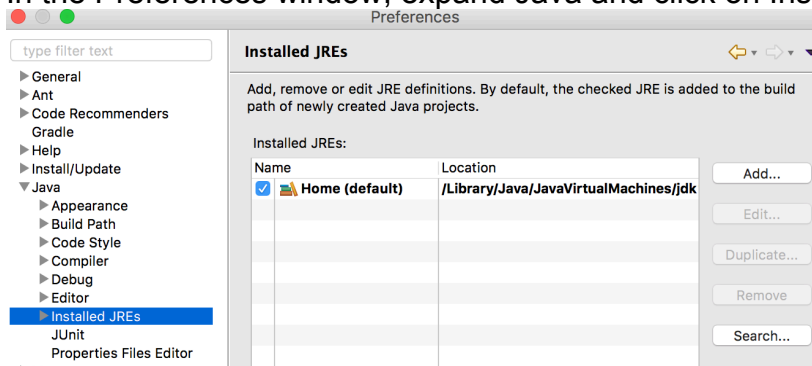


Set Eclipse Preferences

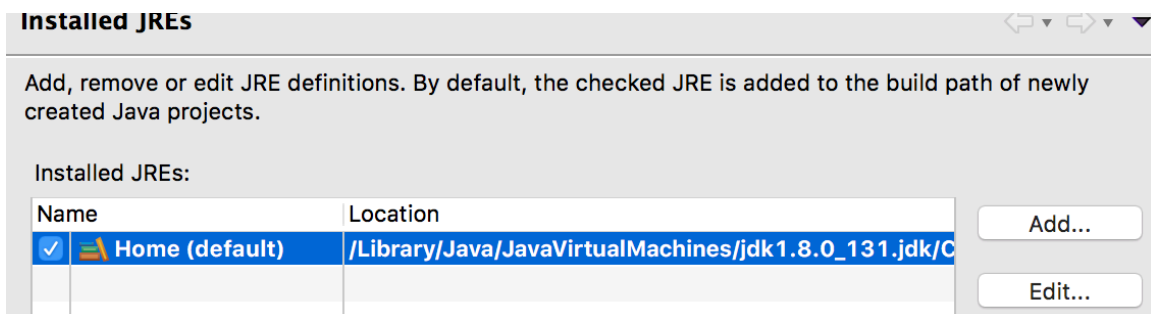
In the Eclipse top menu bar, navigate to Preferences



In the Preferences window, expand Java and click on Installed JREs.



Click on the latest version of the Java JDK (1.8.0_131) to select it (blue highlight) and then click the Edit button.



Under the Default VM arguments enter the path to your full and reduced Hadoop Sequence files as shown below and add the `-Xms512m` and `-Xmx6g` memory options.

Edit JRE

JRE Definition
Specify attributes for a JRE

JRE home:

JRE name:

Default VM arguments:

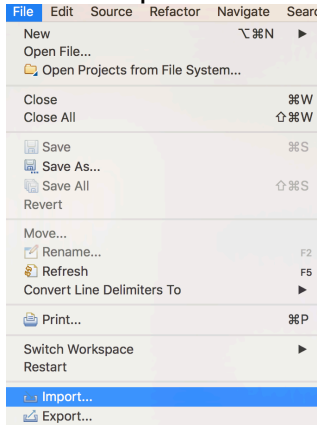
JRE system libraries:

- /Library/Java/JavaVirtualMachines/jdk1.8.0_131.jdk/Contents/Home/jre/lib/resources.jar
- /Library/Java/JavaVirtualMachines/jdk1.8.0_131.jdk/Contents/Home/jre/lib/rt.jar

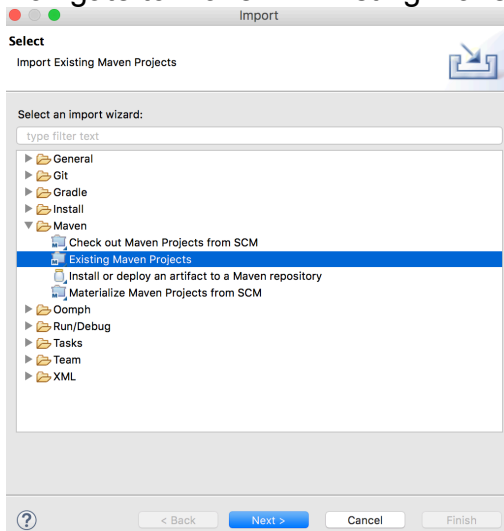
Add External JRE System Library

Import mmtf-spark into Eclipse

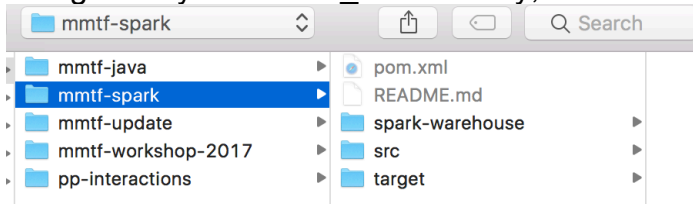
Select Import from the File menu



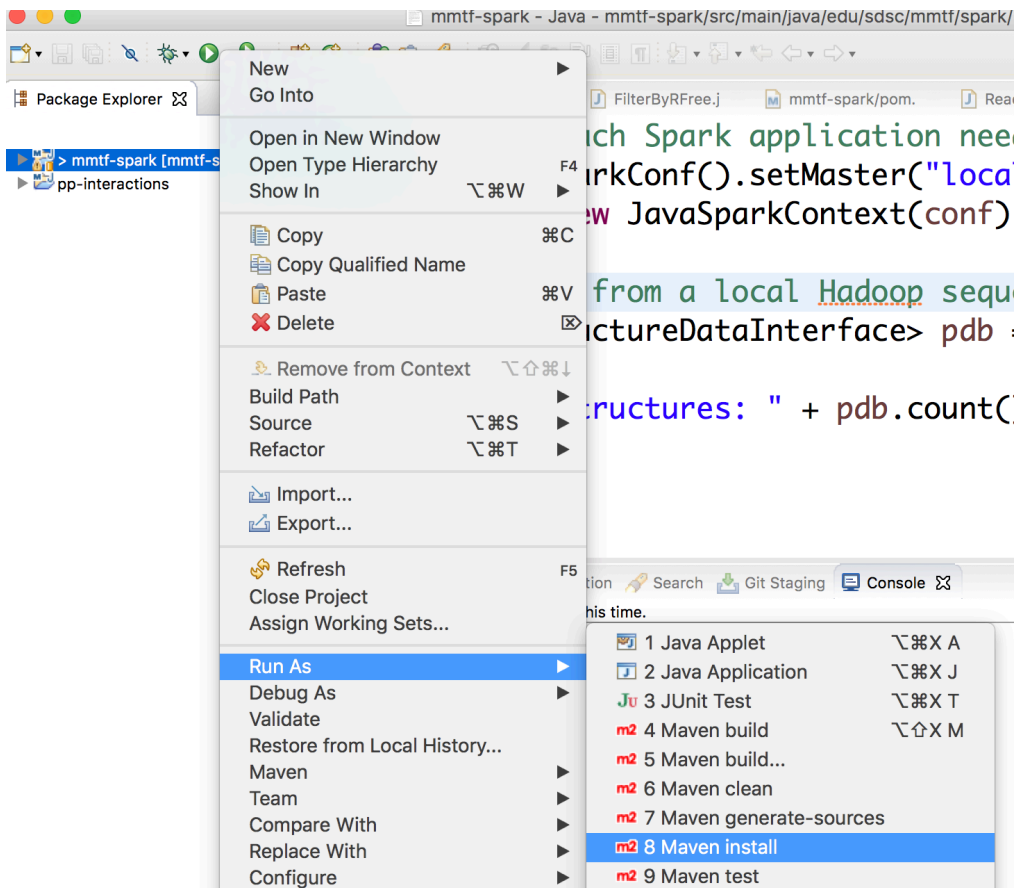
Navigate to Maven > Existing Maven Project and click Next.



Navigate to your MMTF_Git directory, select mmtf-spark, and click open.



In Eclipse, right click on imported mmtf-spark project and select Run As > Maven Install from the menu.



Maven will install all dependencies and run unit tests on this project. This may take several minutes.

There should be a Build success message in the Eclipse Console if the installation succeeded.

Import mmtf-workshop-2017 into Eclipse

Now follow the same steps to import mmtf-workshop-2017 into Eclipse.

In Eclipse, right click **on each of the mmtf-workshop-2017 projects** and Run As > Maven Install from the menu.