# Executing Tassel

# www.maizegenetics.net/tassel

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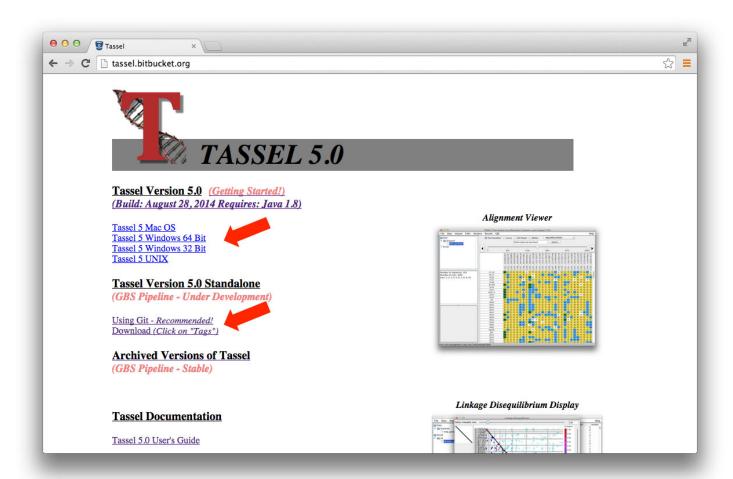
## **Tassel 5.0 Requirements**

#### **Tassel 5.0 Native Installers**

Download and Execute for your Operating System

# Tassel 5.0 Standalone / Command Line (Tassel Pipeline)

1) Download the "Standalone" .zip and unzip it on your computer. 2) Follow the "Using Git" instructions to make getting future updates very easy (Highly Recommended!). https://bytebucket.org/tasseladmin/tassel-5-source/wiki/docs/UpdatingTasselStandaloneUsingGit.pdf



## **Change Heap for GUI on MAC**

- In Applications Folder, Double click "TASSEL 5"
- Right click on "Tassel 5" application, and choose "Show Package Contents"
- Double click on "Contents"
- Edit file vmoptions.txt
- Change -Xms (minimum heap, i.e. -Xms 512m) and -Xmx (maximum heap, i.e. -Xmx 5g) as appropriate.

# Change Heap for GUI on Windows

- In Tassel Installation Directory (default: C:\Program Files\TASSEL5)
- Edit file "Tassel 5.vmoptions" (NOTE: If you have User Account Control (UAC) enabled, start the editor with "Run as administrator")
- Change -Xms (minimum heap, i.e. -Xms 512m) and -Xmx (maximum heap, i.e. -Xmx 5g) as appropriate.

## Command Line on MAC / Linux / Windows (bash shell)

You can run these from any location if you have the Tassel directory on your PATH.

PATH=\$PATH:/analysis tools/tassel5.0 standalone (For example in .bash\_profile)

#### Use these commands

- ./start tassel.pl -Xmx4g (Example to start GUI with 4 GB Max Heap size)
- ./run\_pipeline.pl -Xmx5g (Example to execute command line with 5 GB Max Heap size)

https://bytebucket.org/tasseladmin/tassel-5-source/wiki/docs/Tassel5PipelineCLI.pdf https://bytebucket.org/tasseladmin/tassel-5-source/wiki/docs/TasselPipelineGBS.pdf

#### **Command Line on Windows**

To increase heap size, you need to edit the .bat you are using. Change the -Xmx parameter.

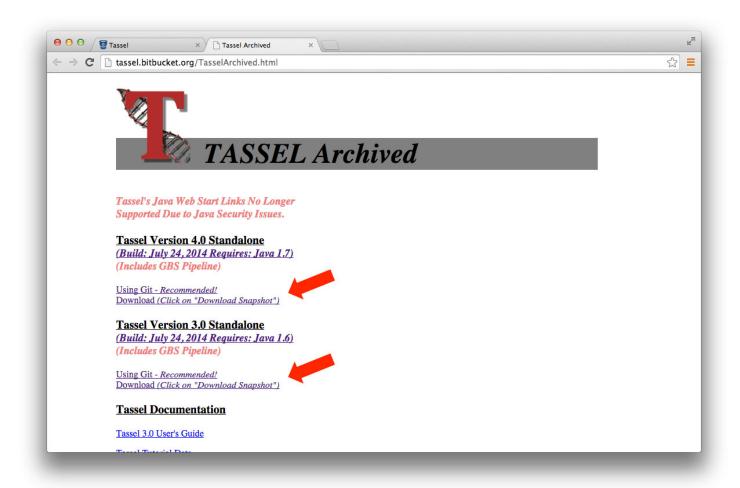
#### Use these commands

- ./start tassel.bat (To start GUI)
- ./run pipeline.bat (To execute command line)

https://bytebucket.org/tasseladmin/tassel-5-source/wiki/docs/Tassel5PipelineCLI.pdf https://bytebucket.org/tasseladmin/tassel-5-source/wiki/docs/TasselPipelineGBS.pdf

## Tassel 3.0 / 4.0

Java Web Start Launches are no longer supported due to Java Security Issues. Only downloadable .zip files and installing using Git are available.



# Troubleshooting...

- If you get an error message containing "Error: Could not create the Java Virtual Machine"... http://www.oracle.com/technetwork/java/hotspotfaq-138619.html#qc heap 32bit

Most likely, you have a mismatching in your Java Installation and Operating System. One will be 32-Bit and the other 64-Bit. Type the command "java -version" to see if it matches your Operating System. Notice there may be multiple Java installations on your machine. Your web browser may be using a different installation than your command line.

- If you get this error message...

Invalid maximum heap size: -Xmx4g

The specified size exceeds the maximum representable size.

Error: Could not create the Java Virtual Machine.

This might be due to a limit in the maximum heap, but it is system dependent. Try reducing the -Xmx setting.

- If you get an error message like this... Exception in thread "main" java.lang.UnsupportedClassVersionError: net/maizegenetics/pipeline/TasselPipeline: Unsupported major.minor version 51.0

You need a higher level of Java. Tassel 5 requires Java 1.8.

- If you get this error... "Error: Could not find or load main class net.maizegenetics.tassel.TASSELMainApp" while running start\_tassel.pl or run\_pipeline.pl in the bash shell on Windows.

Change the following line to use a; instead of a:.

my \$CP = join(":", @fl);