

Readme.md

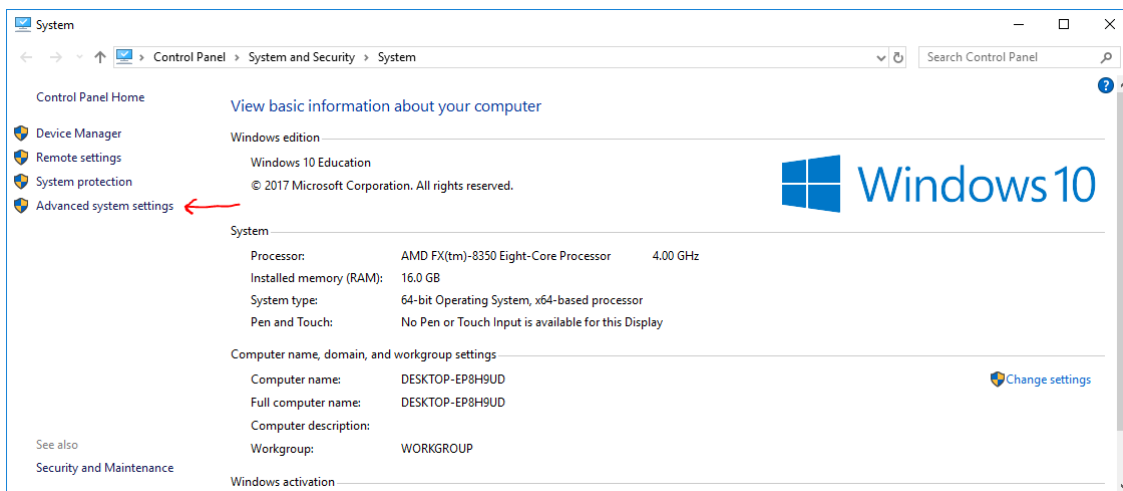
Created By

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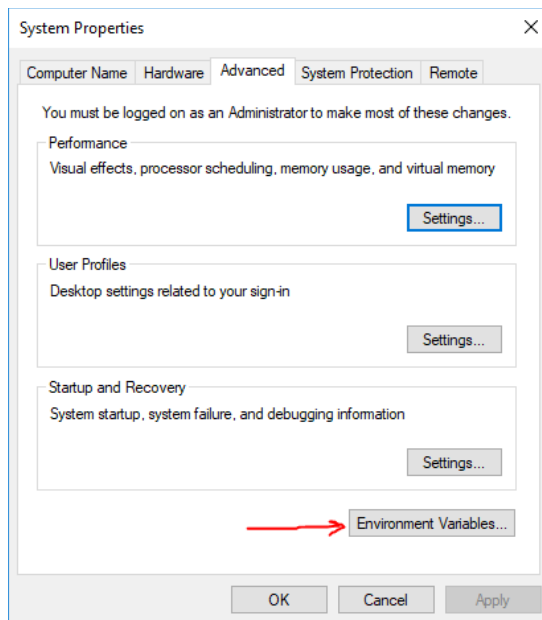
Final Project: CPSC 233 (Summer 2018) - Team 6 (Tutorial 2)

Installing Maven

0. Ensure you read and follow the [Maven Prerequisites For Windows](#).
1. Go to [The Maven Download Page](#) and download [apache-maven-3.5.4-bin.zip](#)
2. Unzip to a location of your choosing. i.e., `C:\Program Files\apache-maven-3.5.4\`
3. Make sure there are no spaces in the path. Maven does not like spaces.
4. Open up the control panel to `Control Panel\System and Security\System` (WIN + PAUSE)
5. Go into `Advanced System Settings`.

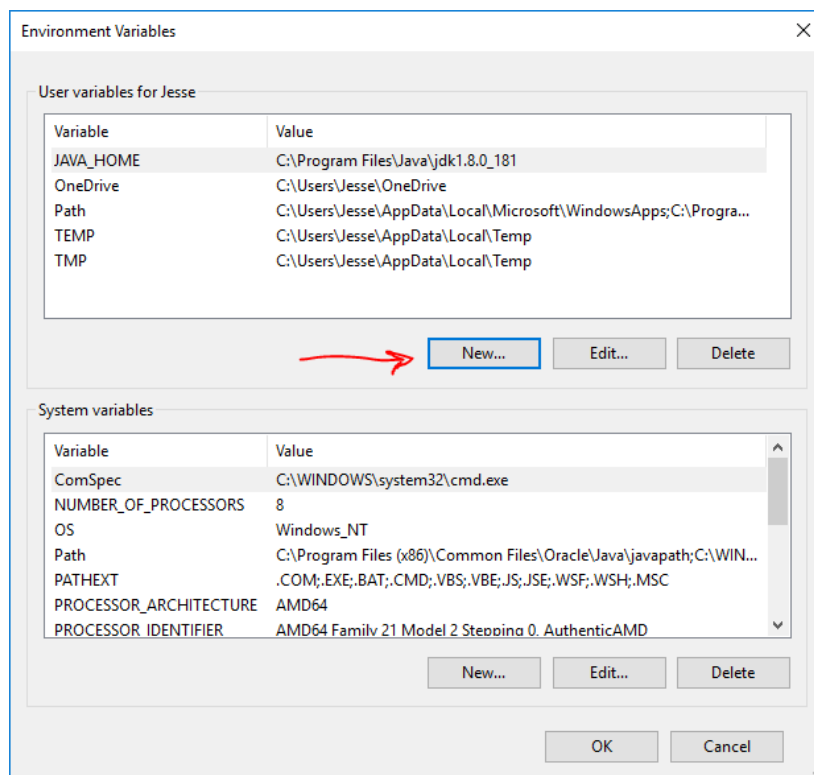


6. Press on `Environment Variables`.

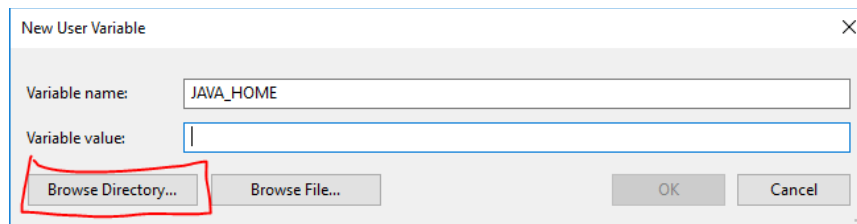


7. If you don't have a `JAVA_HOME` environment variable yet then:

i. Press `New...`



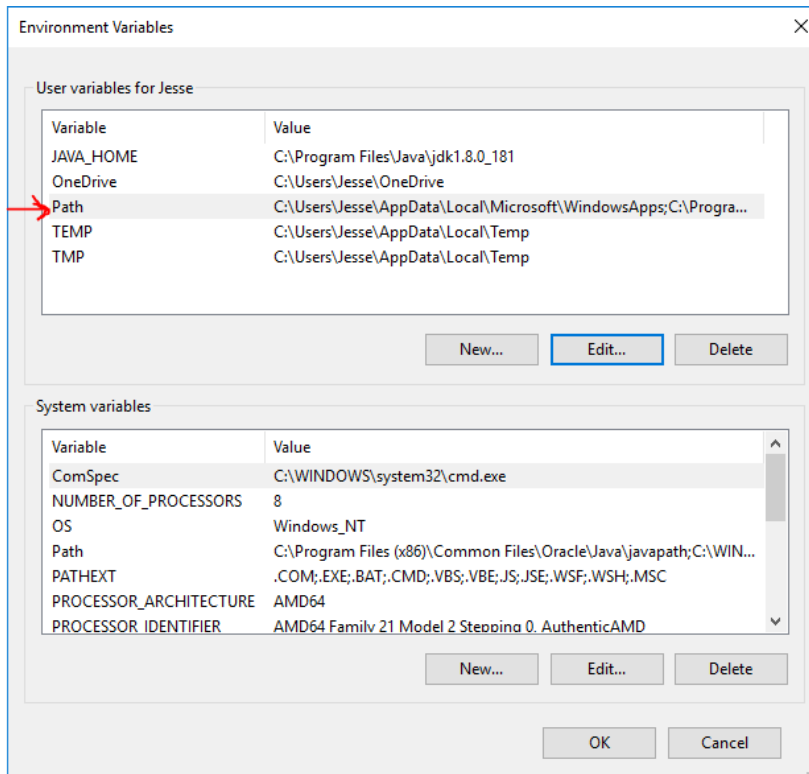
ii. Type in `JAVA_HOME` for the Variable Name field.



iii. Press `Browse Directory...` and choose the directory of your JDK.

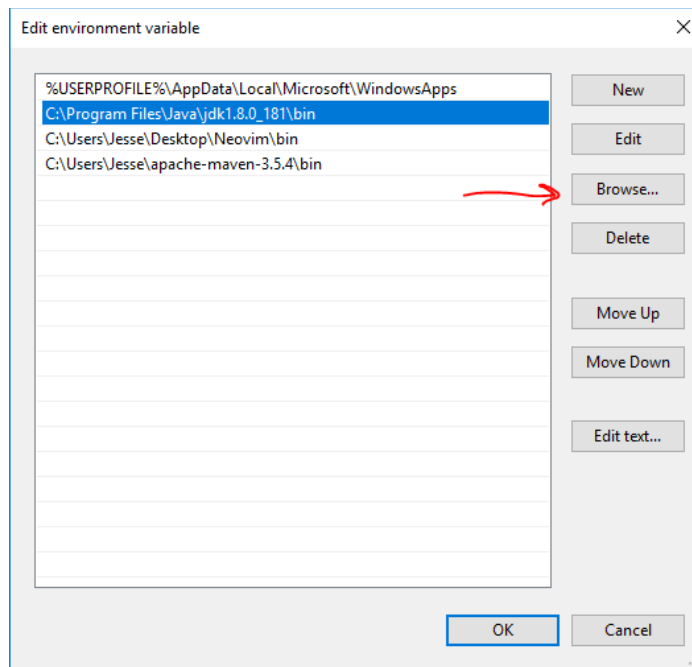
iv. Press `OK`

8. Double click on the `Path` variable.

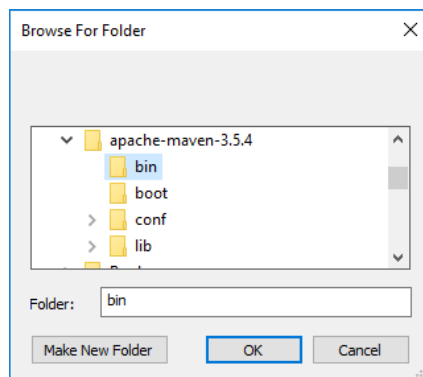


9. Add Maven to your path:

i. Click `Browse...`



- ii. Find where you extracted in step 2 and select the bin directory i.e., `C:\Program Files\apache-maven-3.5.4\bin\`



10. Add the JDK to your path if it is not already there:

- Click `Browse...`
- Find where your jdk is located and select the bin directory. i.e., `C:\Program Files\Java\jdk1.8.0_181\bin`

11. Open a command prompt and run `mvn -v` to confirm installation.

Note: If this does not work, but you have followed the steps above then please try restarting your computer

Running The Project

- Download the zip file from D2L and unzip to a sensible location. i.e, `C:\Users\Jesse\Documents\Projects\Tetris-Group-Project`
- MAKE SURE THERE ARE NO SPACES IN THE PATH, MAVEN DOES NOT LIKE SPACES** -- see [here](#) for more info.
- Open a command prompt and change into the directory you have unzipped it to.

If you type `dir` your command prompt should look something like:

```
2018-08-12 10:55 PM <DIR> .
2018-08-12 10:55 PM <DIR> ..
2018-08-12 10:44 PM      34 HighScore.txt
2018-08-12 08:35 PM    1,057 pom.xml
2018-08-12 10:55 PM    1,535 Readme.md
2018-08-12 10:18 PM <DIR> tetris-console
2018-08-12 10:18 PM <DIR> tetris-gui
2018-08-12 10:18 PM <DIR> tetris-logic
```

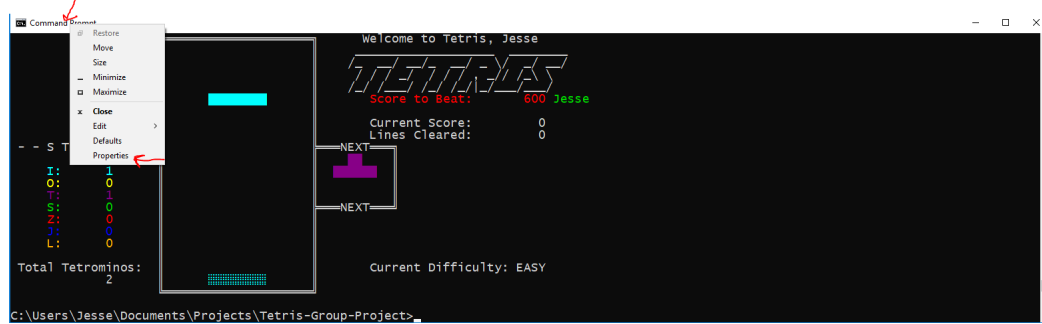
4. Congratulations! You're in the right directory. Now type `mvn clean install` to compile and install the game.

5. Now you can play the game.

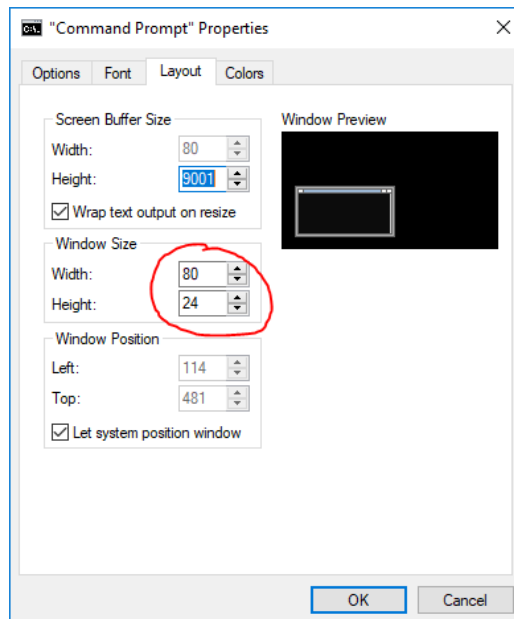
i. To play in the console, run `mvn -pl tetris-console exec:java`

For smoother gameplay,

a. Right click the cmd window and select `properties`



b. Change the `width` to `80` and the `height` to `24`



You may also change font size as you wish for larger or smaller graphics.

ii. To play with the gui, run `mvn -pl tetris-gui exec:java`

Viewing The Source Code

The source code for all modules are in `Tetris-Group-Project\tetris-<MODULENAME>\src\main\java\TeamSix.<MODULENAME>` For example, to see the Console game's source, go to `Tetris-Group-Project\tetris-console\src\main\java\TeamSix.console`

Testing

JUnit Testing

The majority of tests are stored in the `tetris-logic` module. They are in the `Tetris-Group-Project\tetris-logic\src\test\java\TeamSix.logic\` directory.

There is also one test in the `tetris-console` module. It is located at `Tetris-Group-Project\tetris-console\src\test\java\TeamSix.console\ConsoleTest.java`

To Test:

Make sure your command prompt is at `Tetris-Group-Project` as in step 2. of *Running The Project*. Then run: `mvn test` to run all the tests. To run a specific test, i.e., `BlockTest`, use `mvn -pl tetris-logic test -Dtest=BlockTest`. Unless you want to run `ConsoleTest`, then use `mvn -pl tetris-console test -Dtest=ConsoleTest` (as it is in the `tetris-console` module)