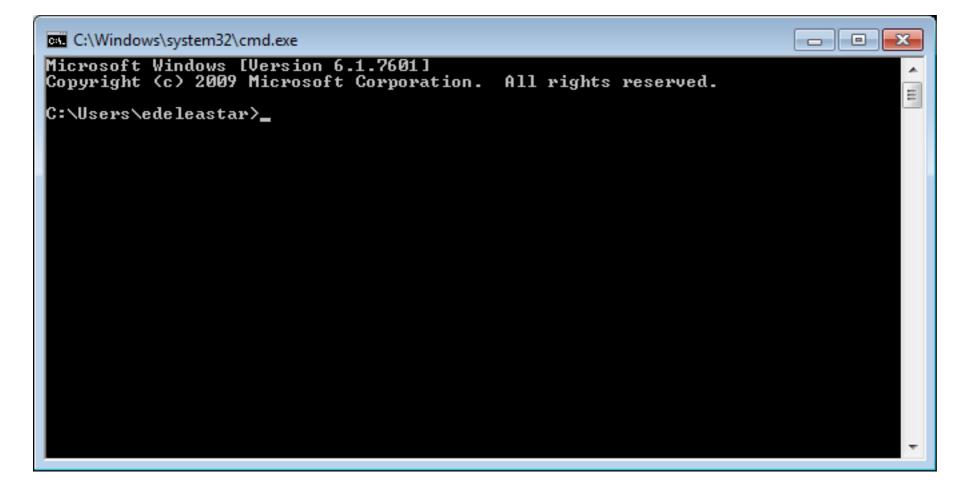
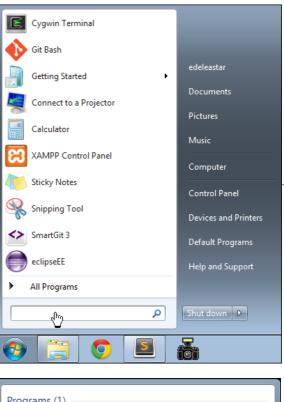
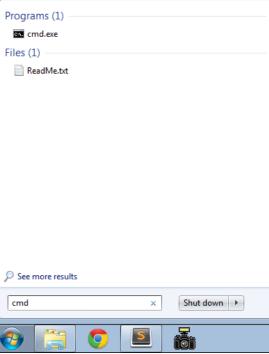
Getting Started with Play

Web Development

DOS Commands







- This is the Command Line Interface for Windows (CLI)
- In Mac/Linux it is called "Terminal"
- Learning to use the CLI is an essential skill for a programmer

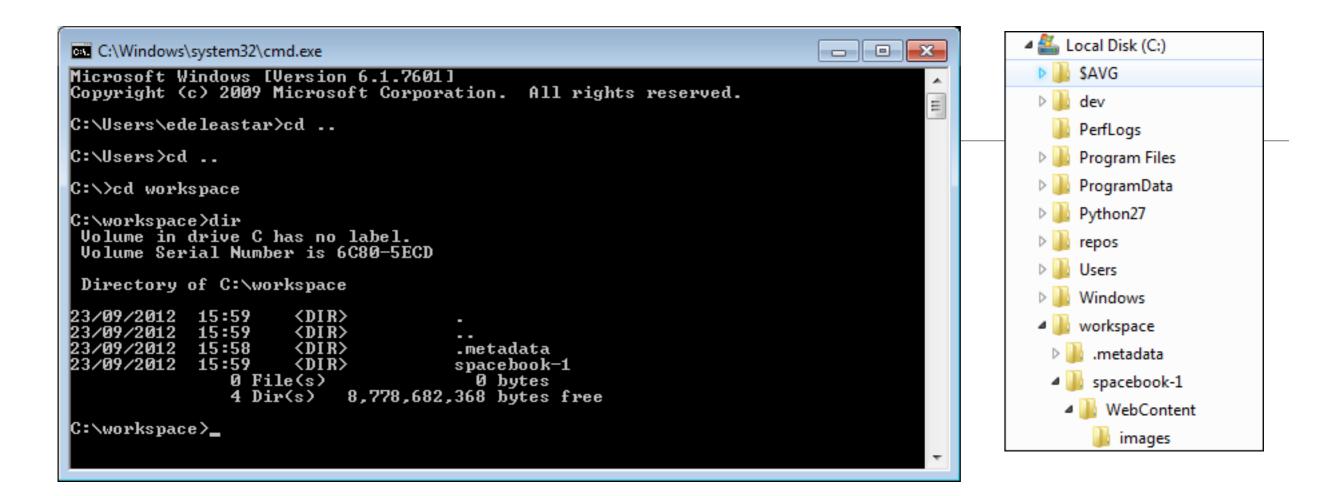
Example DOS Commands

- dir
 - list all files in a directory
- cd ..
 - change to a parent directory
- cd <directory name>
 - change to a specific directory
- mkdir <directory name>
 - create a directory
- rmdir <directory name>
 - delete a directory
- On Mac/Linux:
 - use Is instead of dir

- These commands always have a 'current directory' in mind
- A directory is another name for a folder.
- On Windows, the current directory appears in the 'prompt'

C:\workspace}_

- In Mac/Linux, type 'pwd' to find out the current directory.
- On Windows, '\' or '/' can be used to separate directory names
- On Mac/Linux, only '/' is accepted
- So --> always is '/' to avoid confusion



C:\Users\edeleastar>cd ..

C:\Users\>cd ..

C:\>cd workspace

C:\>workspace>dir

...

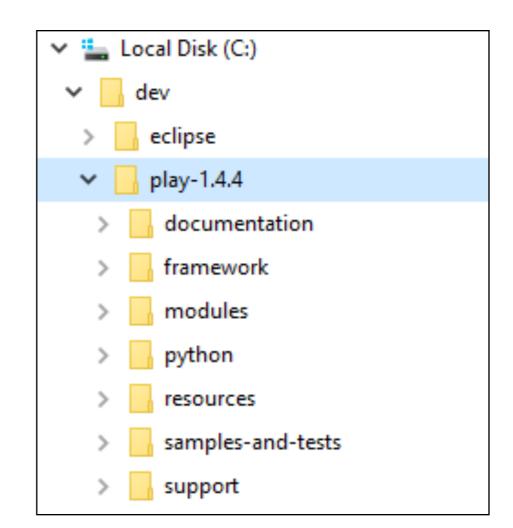
. . .

C:\>

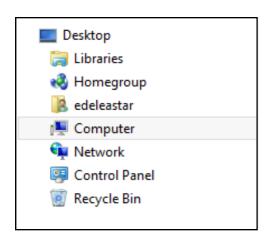
- Never use spaces in directory or file names
- Never use upper case in directory or file names
- If you wish to use readable multiple words for a directory or file name, separate the words with '-'. e.g.
 - web-development
 - java-projects

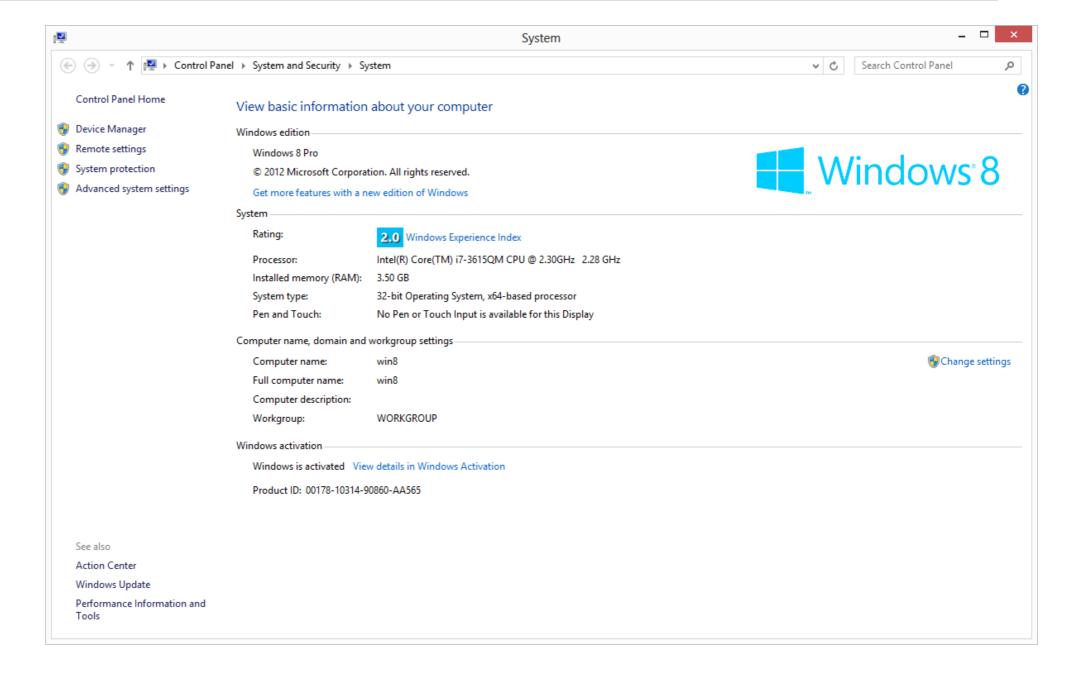
Installing Play

- Play must be downloaded and installed on your PC
 - www.playframework.org
 - Use version 1.4.4
- Installing Play on your PC is just expanding the zip archive into a folder
- This folder must be placed on the 'System Path'
- This will equip the PC with a new command

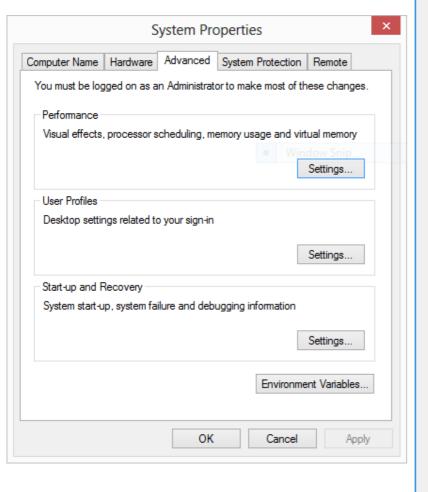


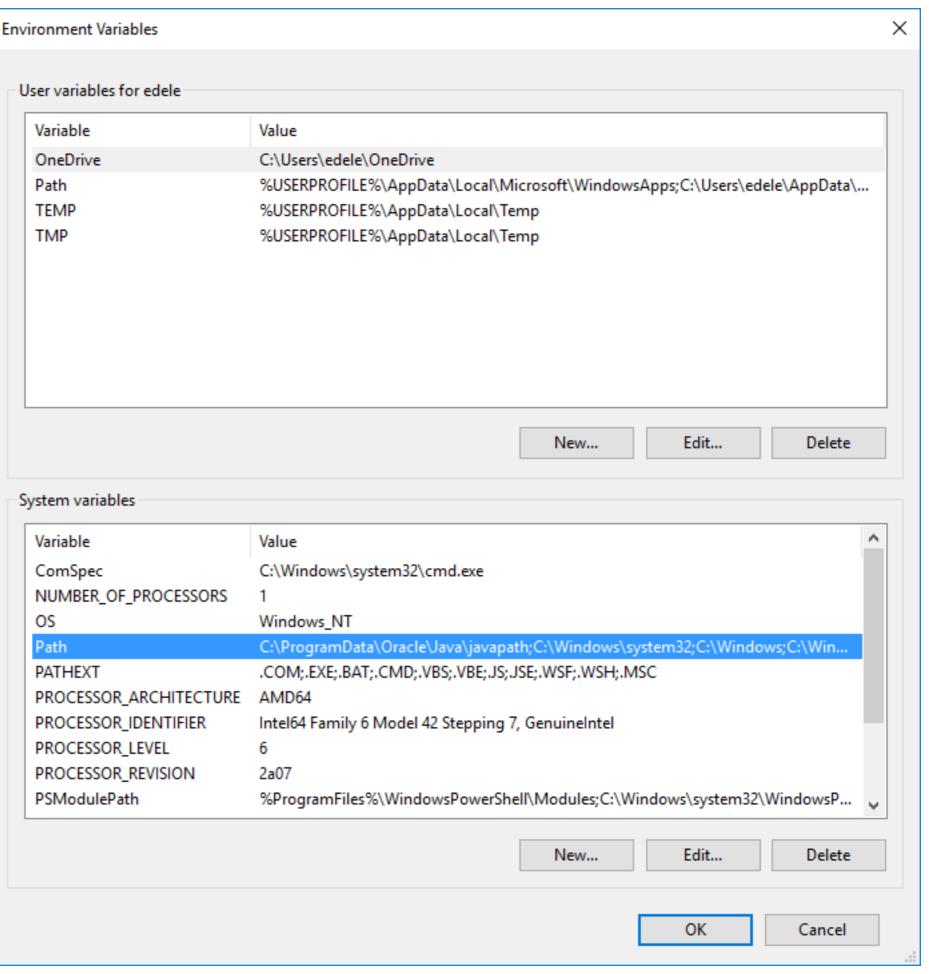
Path Configuration

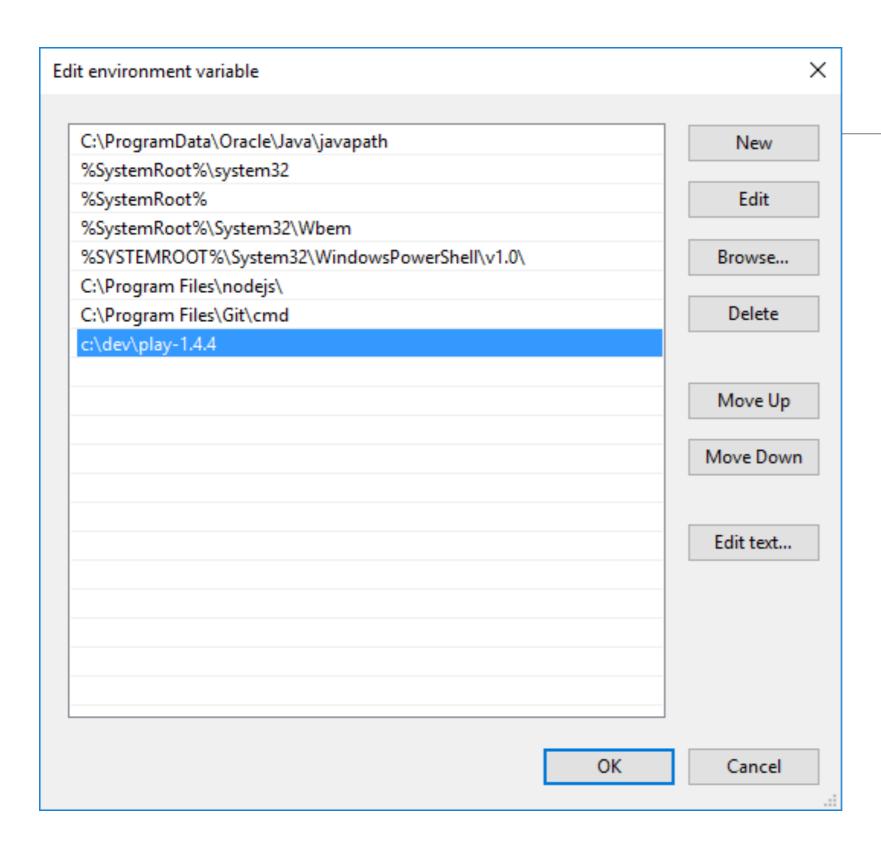




Path Configuration







 New entry in system path

Verifying Play

- Play applications are created and tuned using the shell (i.e. DOS on windows)
 - You must be able to navigate your folder structure using the shell
 - If you are having difficulty fix this immediately (i.e. learn basics of DOS)!
- To verify play, just type play on command line
 - This works if play is 'on the path'
- If no response (error), then type
 - c:\dev\play-1.4.4\play
 - This is an 'explicit path' ie. a fully qualified path to the play program

```
Command Prompt
C:\dev>play new playdemo
 play! 1.4.4, https://www.playframework.com
 The new application will be created in C:\dev\playdemo
 What is the application name? [playdemo]
 OK, the application is created.
 Start it with : play run playdemo
 Have fun!
C:\dev>
```

In DOS

- This command creates a skeleton play application called 'playdemo' in the current directory (c:\dev\ws in the above example)
- Usually you will want to 'change into' this new directory for subsequent commands

c:\dev\ws>cd playdemo

c:\dev\ws\playdemo>

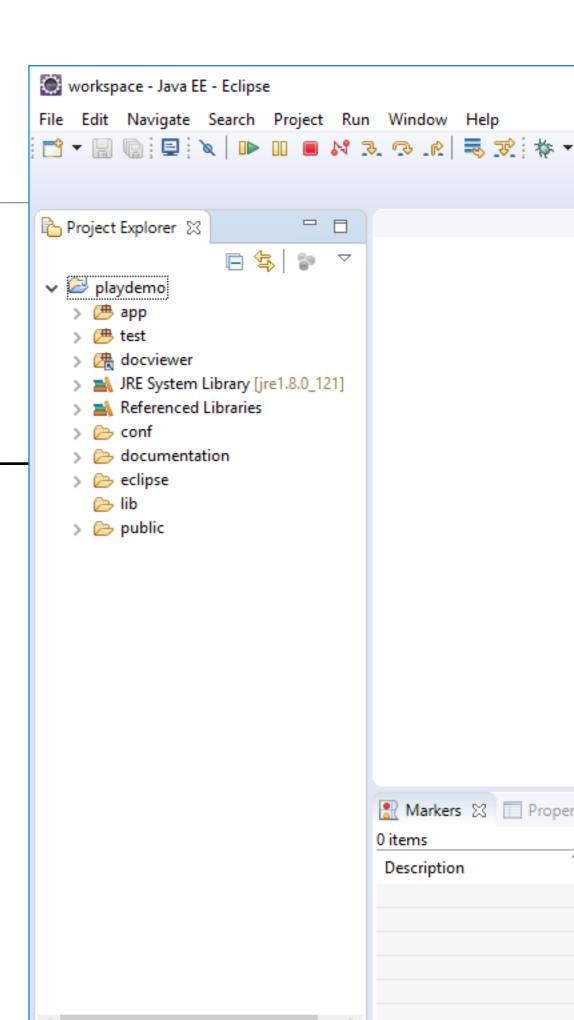
Eclipsify

- In order to make the new project visible to Eclipse
 - "play eclipsify"

```
Command Prompt
                                                                                                                 ×
 The new application will be created in C:\dev\playdemo
 What is the application name? [playdemo]
 OK, the application is created.
 Start it with : play run playdemo
 Have fun!
C:\dev>cd playdemo
C:\dev\playdemo>play eclipsify
 play! 1.4.4, https://www.playframework.com
 using java version "1.8.0 121"
 OK, the application "playdemo" is ready for eclipse
 Use File/Import/General/Existing project to import C:\dev\playdemo into eclipse
 Use eclipsify again when you want to update eclipse configuration files.
 However, it's often better to delete and re-import the project into your workspace since eclipse keeps dirty caches...
C:\dev\playdemo>_
```

In Eclipse

- If we 'import' the newly created project into eclipse, we can now develop the application in the IDE (Eclipse is and IDE).
- The project may not look like this initially.



Running the Play Application

- We have generated an "Web App" NOT at "Web Site"
- · A Web App requires an 'Application Server' to run
- Play has one built-in, so running the server + the web app is a single command

Back in the shell, from inside the playdemo folder, type the following command:

```
play run
```

Play will respond with something like this:

You may get a dialog from the firewall, asking for permission to run, which you should agree to.

Now run the browser, and navigate to:

http://localhost:9000/

you should see something like this:

The Skeleton App:

- The application is now 'hosted' on our local machine (localhost)
- To use it, we browse to:

http://localhost:9000/

- 9000 is a random 'port' number in which the app is being 'served'
- The 'default' app is documentation on play itself

