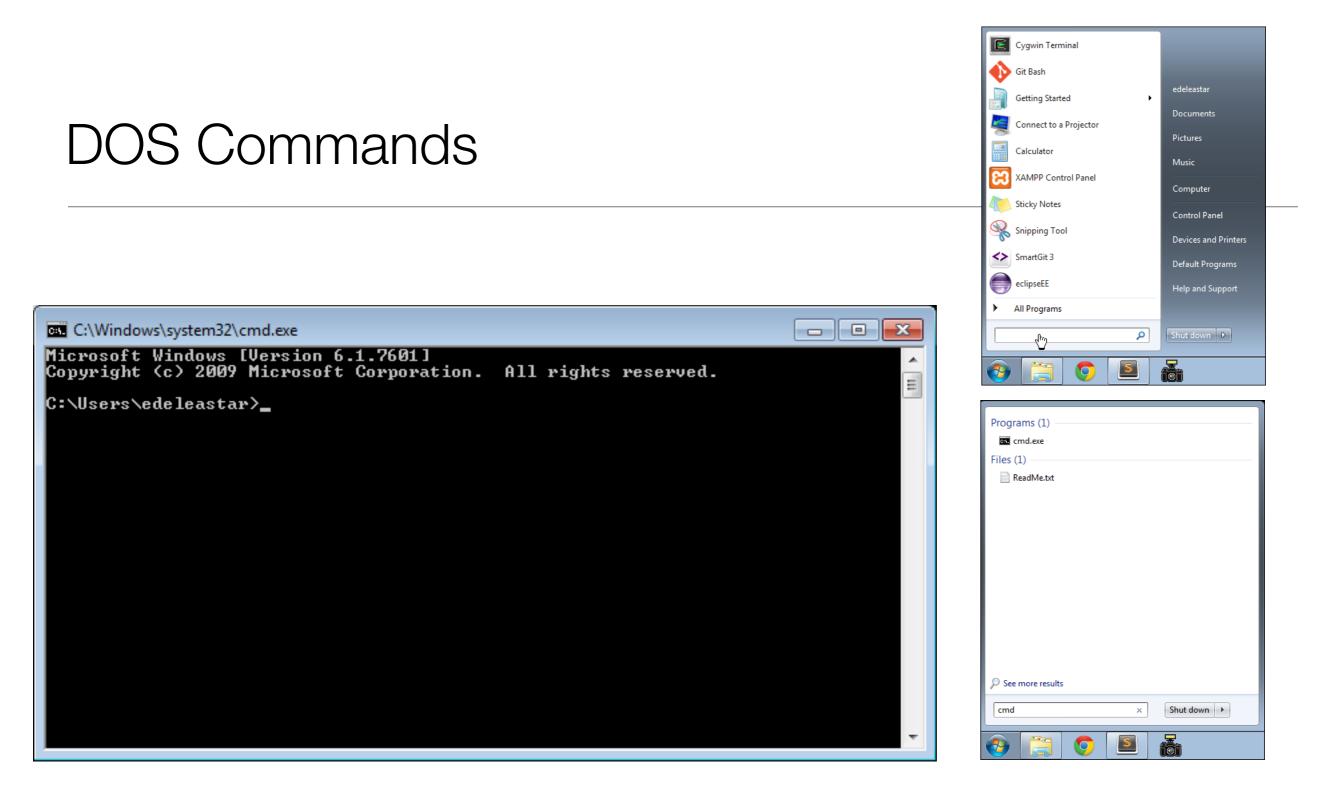
### Getting Started with Play

Web Development



- 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:\>

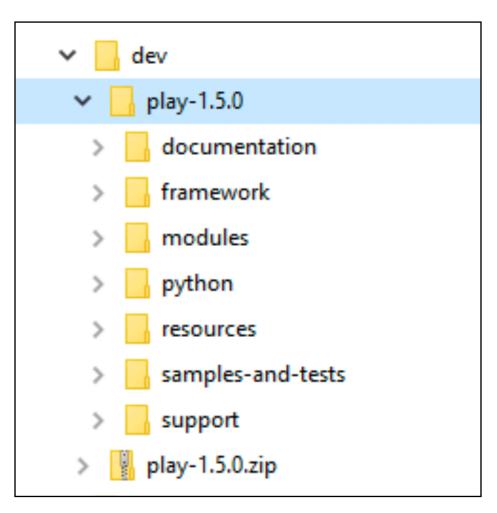
C:\>cd workspace

C:\>workspace>dir

- 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

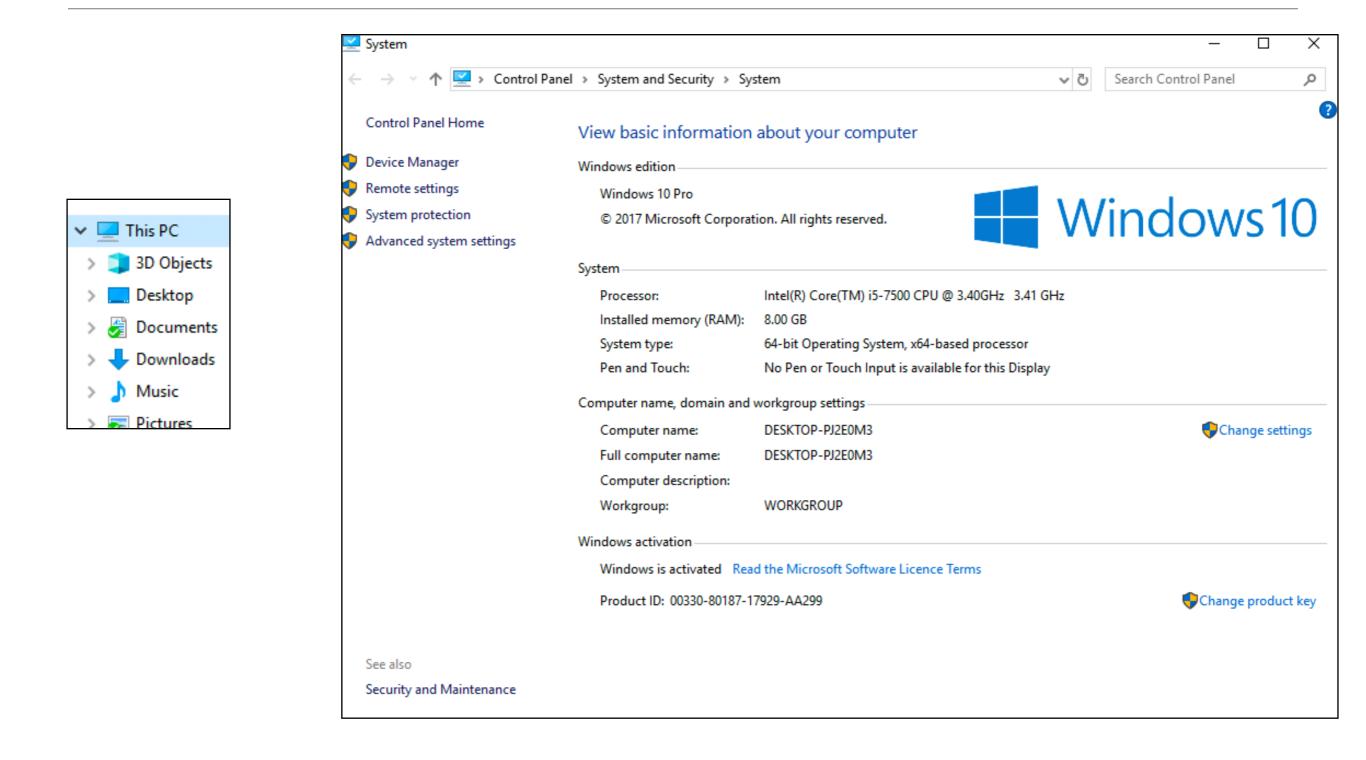
# Installing Play

- Play must be downloaded and installed on your PC
  - www.playframework.org
  - Use version 1.5.0
- 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



Show all versions			
1.5 Setup Instructions			
play-1.5.0.zip	Sep 29 2017	79M	

## Path Configuration



# Path Configuration

	S	ystem Pro	operties	
omputer Name	Hardware	Advanced	System Protection	Remote
You must be log	ged on as a	n Administrat	or to make most of th	nese changes
Performance				
Visual effects	, processor s	cheduling, m	emory usage and vir	tual memory
			• Win	idow Snip
			L	Settings
User Profiles				
Desktop settir	ngs related to	o your sign-in		
			_	
				Settings
Start-up and F	Recovery			
System start-u	ıp, system fai	ilure and deb	ugging information	
			_	
				Settings
			Environme	ent Variables.
		OK	Cancel	App
		UN	Cancer	, the

#### **Environment Variables**

Variable	Value		
OneDrive	C:\Users\edele\OneDrive		
Path	C:\Users\edele\AppData\Local\Microsoft\WindowsApps;C:\Users\e		
TEMP	C:\Users\edele\AppData\Local\Temp		
TMP	C:\Users\edele\AppData\Local\Temp		
	New Edit Delete		
stem variables			
Variable	Value		
ComSpec	C:\WINDOWS\system32\cmd.exe		
NUMBER_OF_PROCESSORS	1		
OS	Windows_NT		
Path	C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\System32\Wb		
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC		
PROCESSOR_ARCHITECTURE	AMD64		
PROCESSOR IDENTIFIER	Intel64 Family 6 Model 158 Stepping 9. GenuineIntel		
	New Edit Delete		

 $\times$ 

dit environment variable	
%SystemRoot%\system32	New
%SystemRoot%	
%SystemRoot%\System32\Wbem	Edit
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\	
C:\Program Files\nodejs\	Browse
C:\Program Files\Git\cmd	
C:\dev\play-1.5.0	Delete
	Move Up
	Move Down
	Edit text
0	K Cancel

 New entry in system path

# Verifying Play

- Play applications are created and executed 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-1.5.0\play
  - This is an 'explicit path' ie. a fully qualified path to the play program



## Creat a Project

- This command creates a skeleton play application called 'playdemo' in the current directory
- Usually you will want to 'change into' this new directory for subsequent commands

c:\dev\dev>cd playdemo

c:\dev\dev\playdemo>

#### play new playdemo

#### You should get:

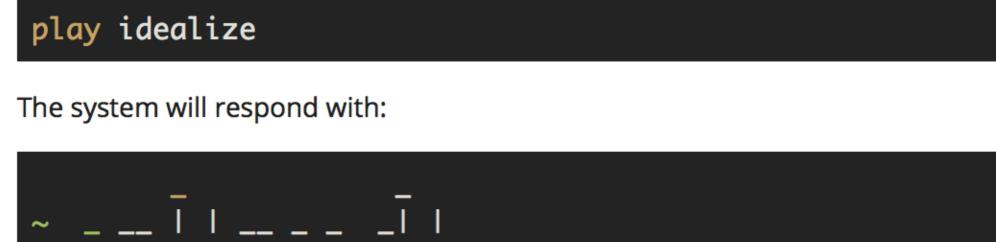
~
~
~   '_ \   / _'       _
~  / _ \ \ (_)
~ I_I I/
~
~ play! 1.5.0, http://www.playframework.org
~
~ The new application will be created in c:\course-work\
~ What is the application name? [playdemo]

Press return when prompted for the name to accept the default (playdemo)

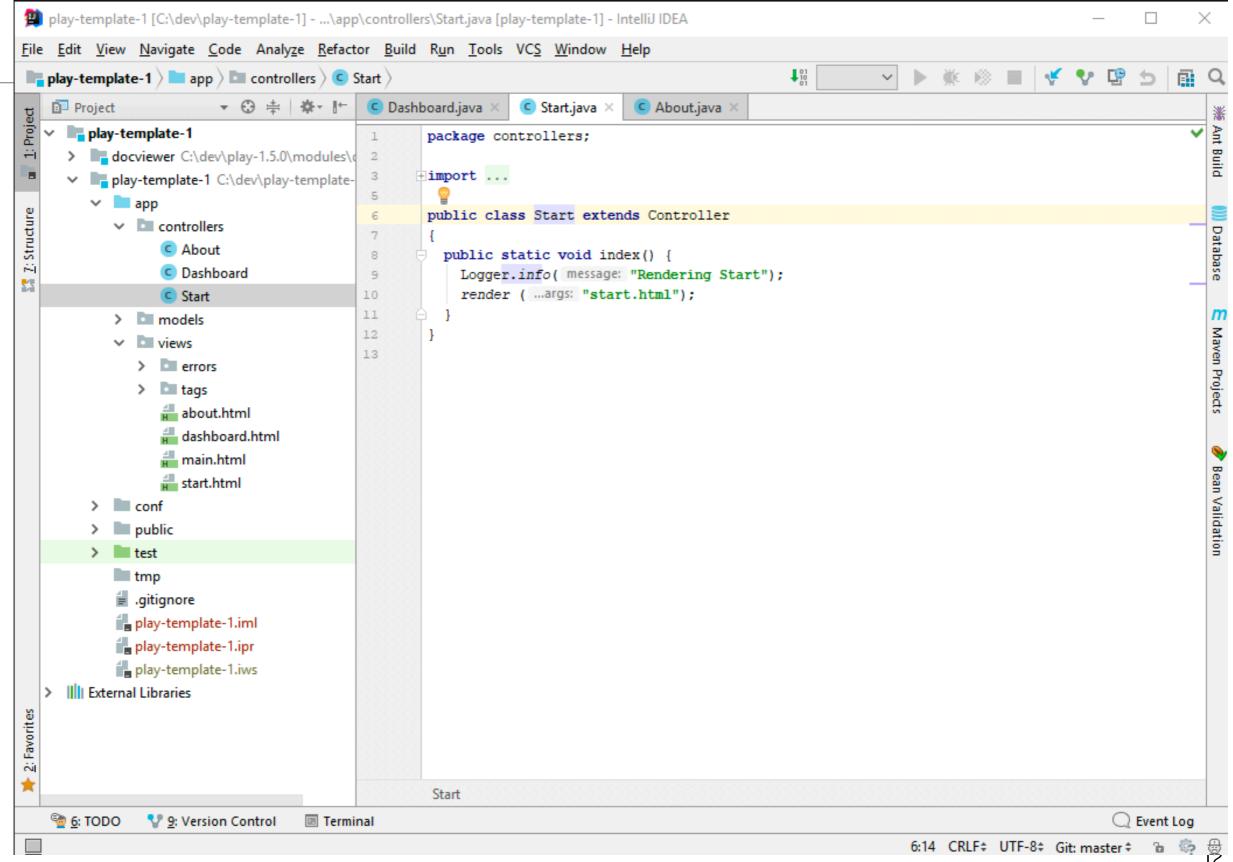
~ ~ OK, the application is created. ~ Start it with : play run playdemo ~ Have fun! ~

### Idealize

Now, making sure you are still in the playdemo folder, run this command:



### In Idea



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

#### play run

Play will respond with 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

