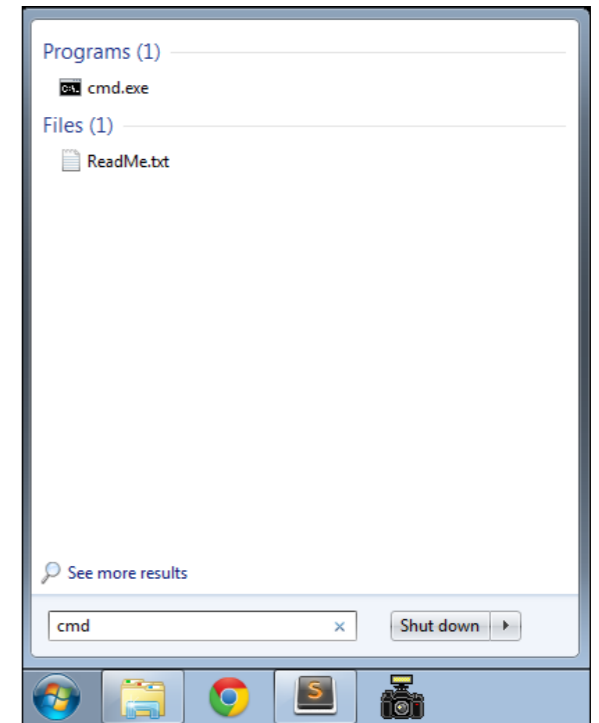
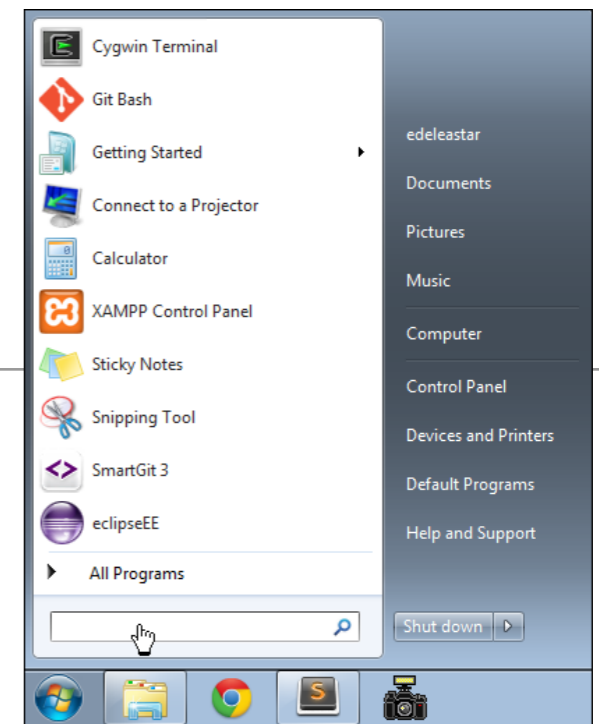
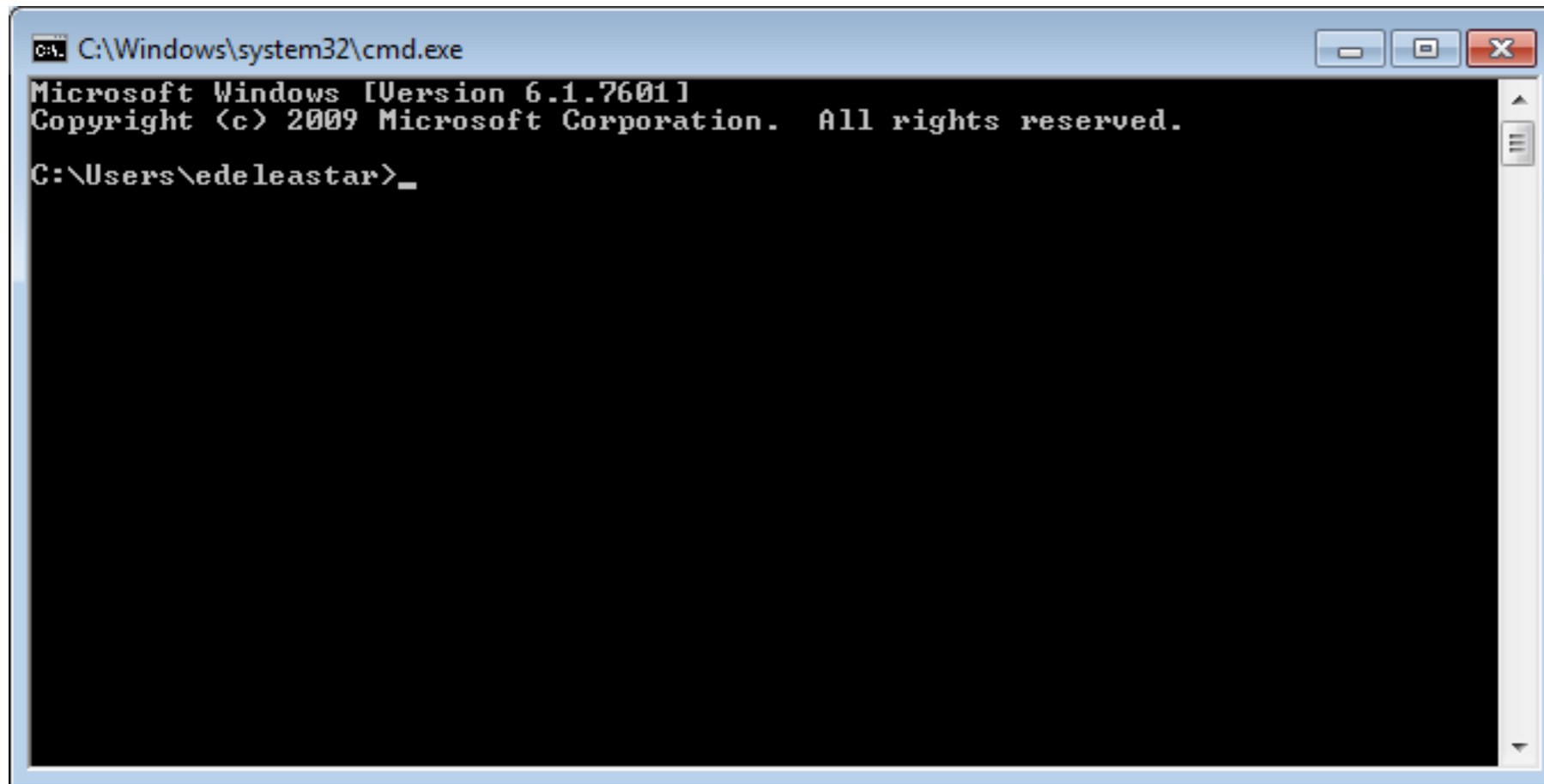


Getting Started with Play

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 **ls** 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

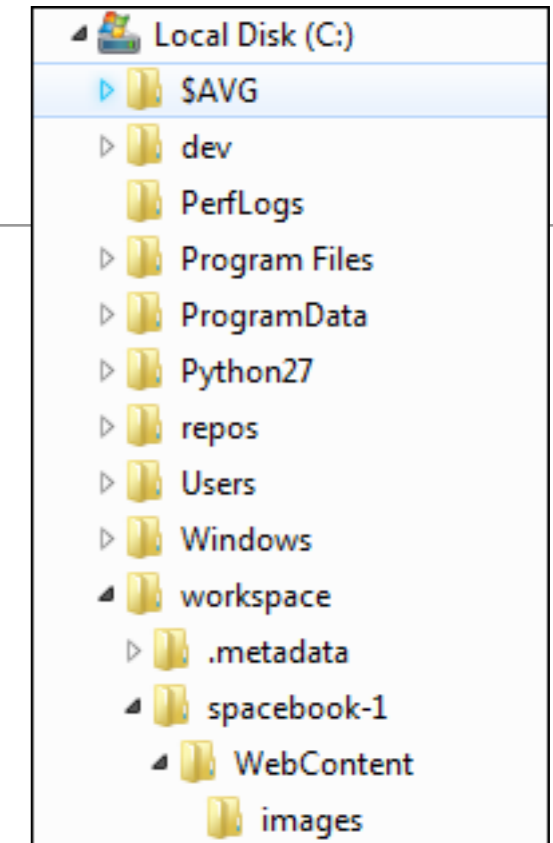
```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\edelestar>cd ..
C:\Users>cd ..
C:\>cd workspace
C:\workspace>dir
Volume in drive C has no label.
Volume Serial Number is 6C80-5ECD

Directory of C:\workspace

23/09/2012  15:59    <DIR>          .
23/09/2012  15:59    <DIR>          ..
23/09/2012  15:58    <DIR>          .metadata
23/09/2012  15:59    <DIR>          spacebook-1
                0 File(s)      0 bytes
                4 Dir(s)   8,778,682,368 bytes free

C:\workspace>_
```



`C:\Users\edelestar>cd ..`

`C:\Users\>cd ..`

`C:\>cd workspace`

`C:\>workspace>dir`

...

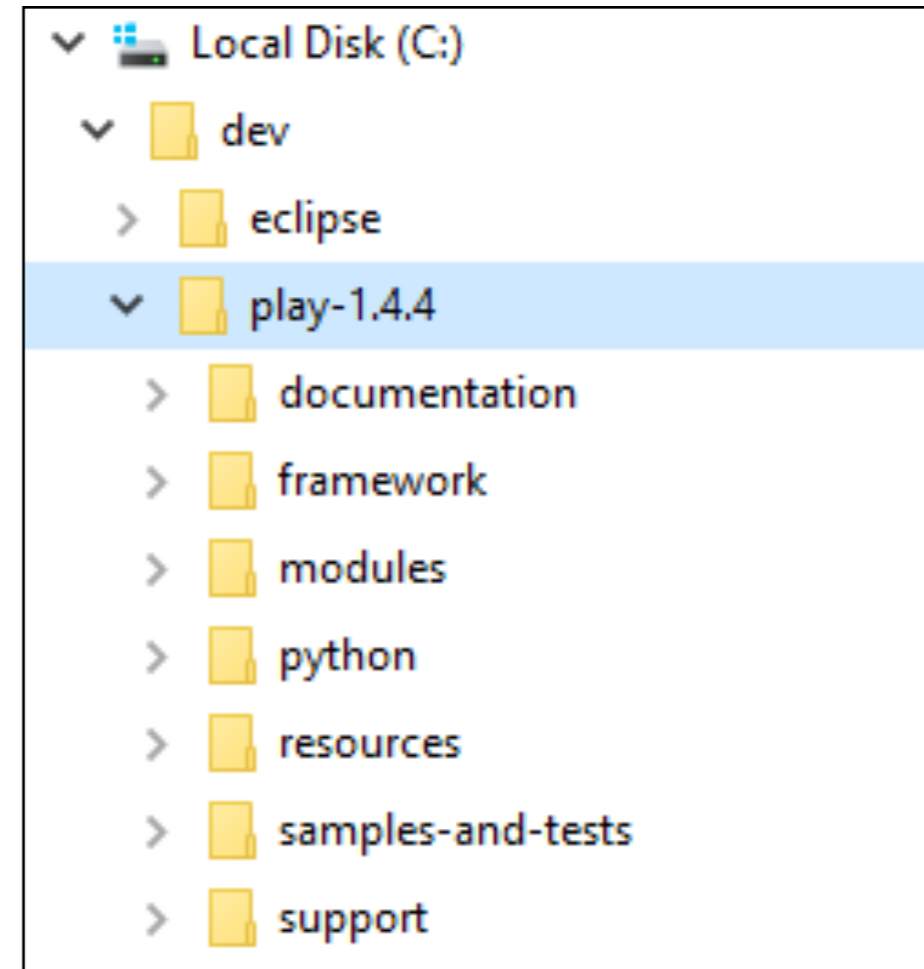
...

`C:\>`

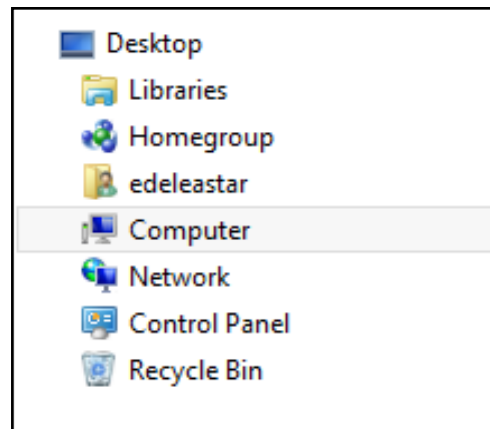
- Never use spaces in directory or file names
- Never use upper case in directory or file names
- If you wish to use readable multiple words for a directory or file name, separate the words with '-'. e.g.
 - web-development
 - java-projects

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



The screenshot shows the Windows System control panel page. The breadcrumb path is Control Panel > System and Security > System. The page title is "System". The main heading is "View basic information about your computer".

Windows edition

- Windows 8 Pro
- © 2012 Microsoft Corporation. All rights reserved.
- [Get more features with a new edition of Windows](#)

System

- Rating: **2.0** Windows Experience Index
- Processor: Intel(R) Core(TM) i7-3615QM CPU @ 2.30GHz 2.28 GHz
- Installed memory (RAM): 3.50 GB
- System type: 32-bit Operating System, x64-based processor
- Pen and Touch: No Pen or Touch Input is available for this Display

Computer name, domain and workgroup settings

- Computer name: win8 [Change settings](#)
- Full computer name: win8
- Computer description:
- Workgroup: WORKGROUP

Windows activation

- Windows is activated [View details in Windows Activation](#)
- Product ID: 00178-10314-90860-AA565

See also

- Action Center
- Windows Update
- Performance Information and Tools

Path Configuration

Environment Variables

User variables for edele

Variable	Value
OneDrive	C:\Users\edele\OneDrive
Path	%USERPROFILE%\AppData\Local\Microsoft\WindowsApps;C:\Users\edele\AppData\...
TEMP	%USERPROFILE%\AppData\Local\Temp
TMP	%USERPROFILE%\AppData\Local\Temp

New...

Edit...

Delete

System variables

Variable	Value
ComSpec	C:\Windows\system32\cmd.exe
NUMBER_OF_PROCESSORS	1
OS	Windows_NT
Path	C:\ProgramData\Oracle\Java\javapath;C:\Windows\system32;C:\Windows;C:\Win...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64
PROCESSOR_IDENTIFIER	Intel64 Family 6 Model 42 Stepping 7, GenuineIntel
PROCESSOR_LEVEL	6
PROCESSOR_REVISION	2a07
PSModulePath	%ProgramFiles%\WindowsPowerShell\Modules;C:\Windows\system32\WindowsP...

New...

Edit...

Delete

OK

Cancel

System Properties

Computer Name Hardware **Advanced** System Protection Remote

You must be logged on as an Administrator to make most of these changes.

Performance

Visual effects, processor scheduling, memory usage and virtual memory

Window Snip

Settings...

User Profiles

Desktop settings related to your sign-in

Settings...

Start-up and Recovery

System start-up, system failure and debugging information

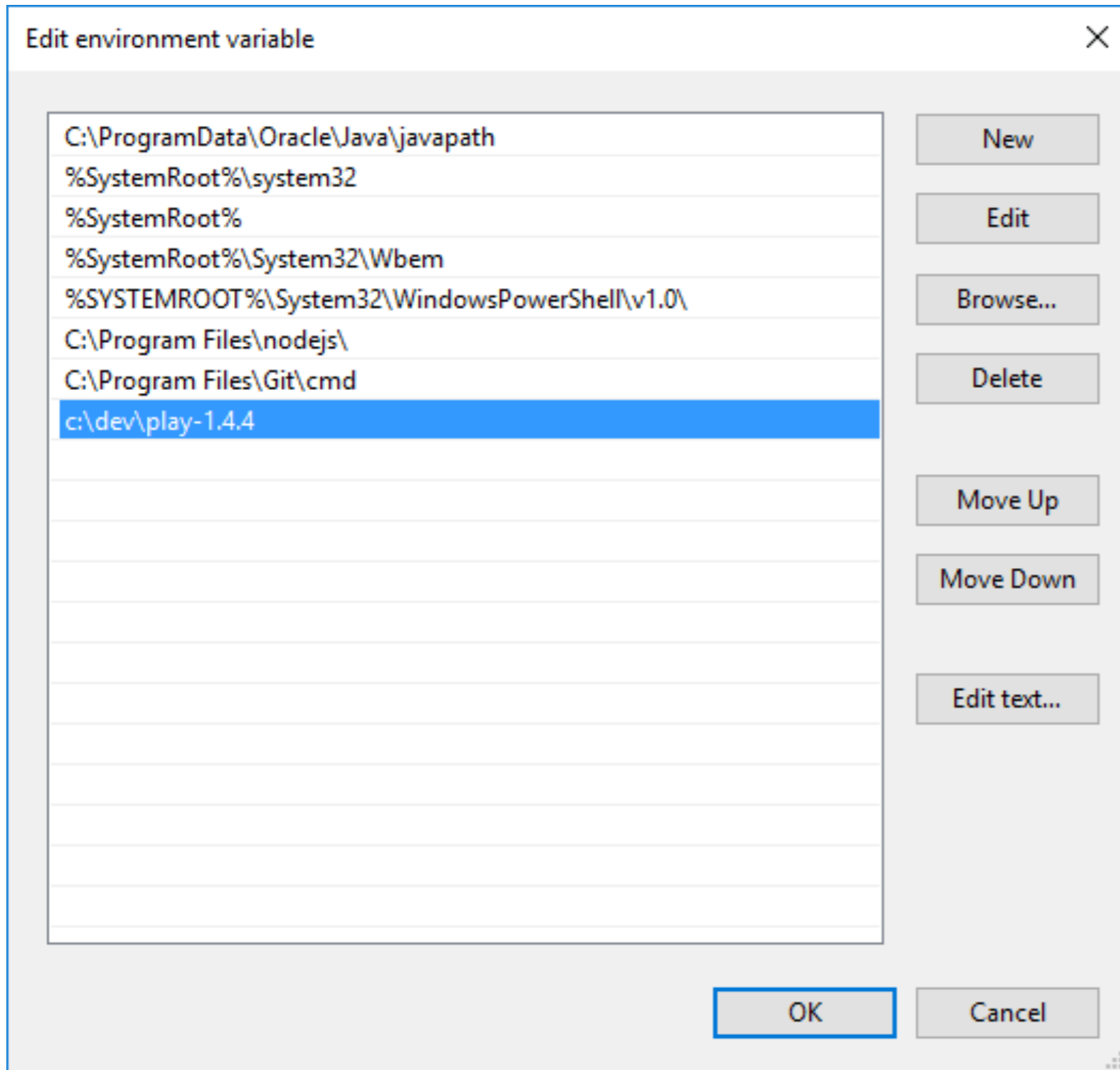
Settings...

Environment Variables...

OK

Cancel

Apply



- New entry in system path

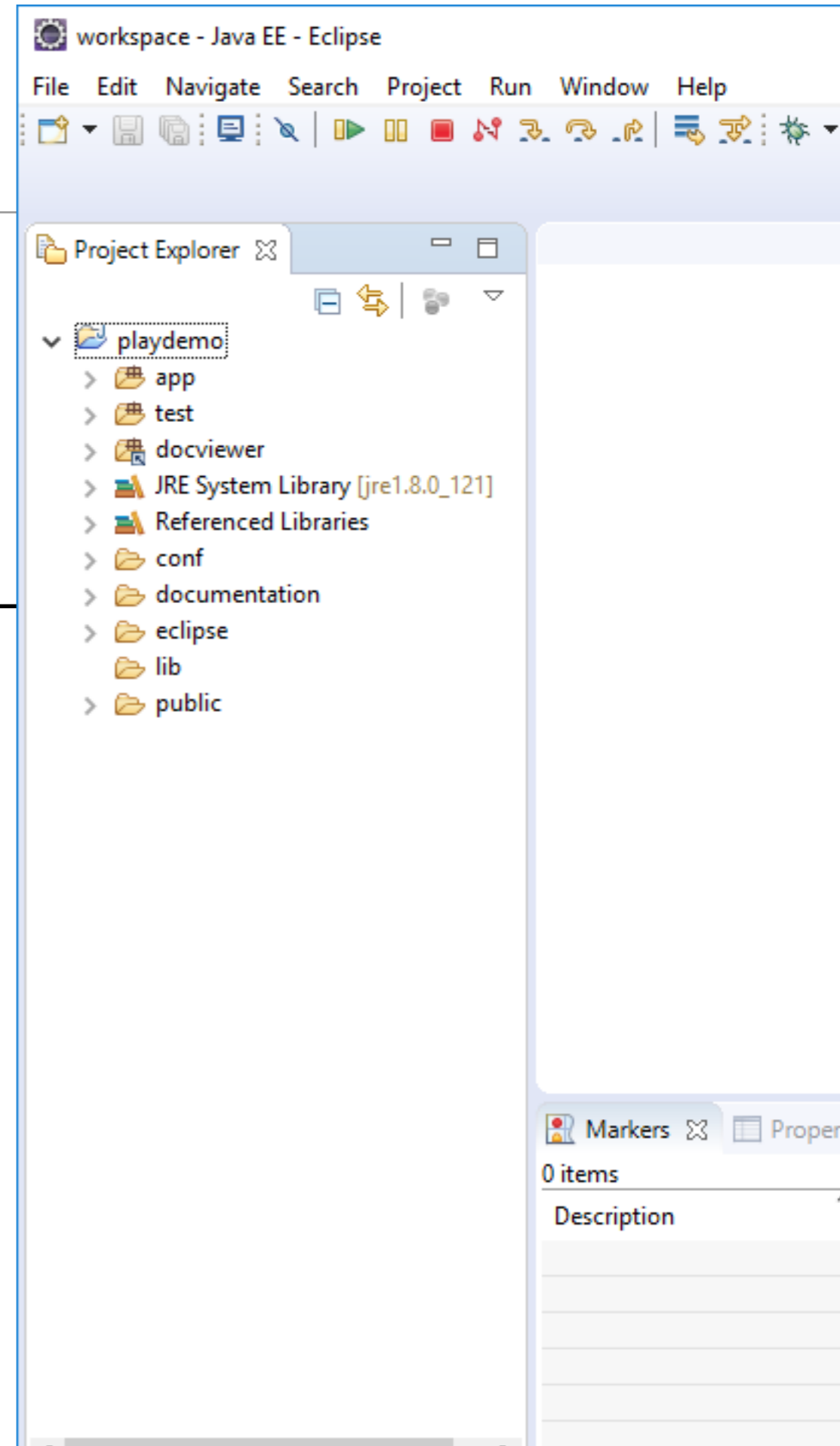
Eclipsify

- 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

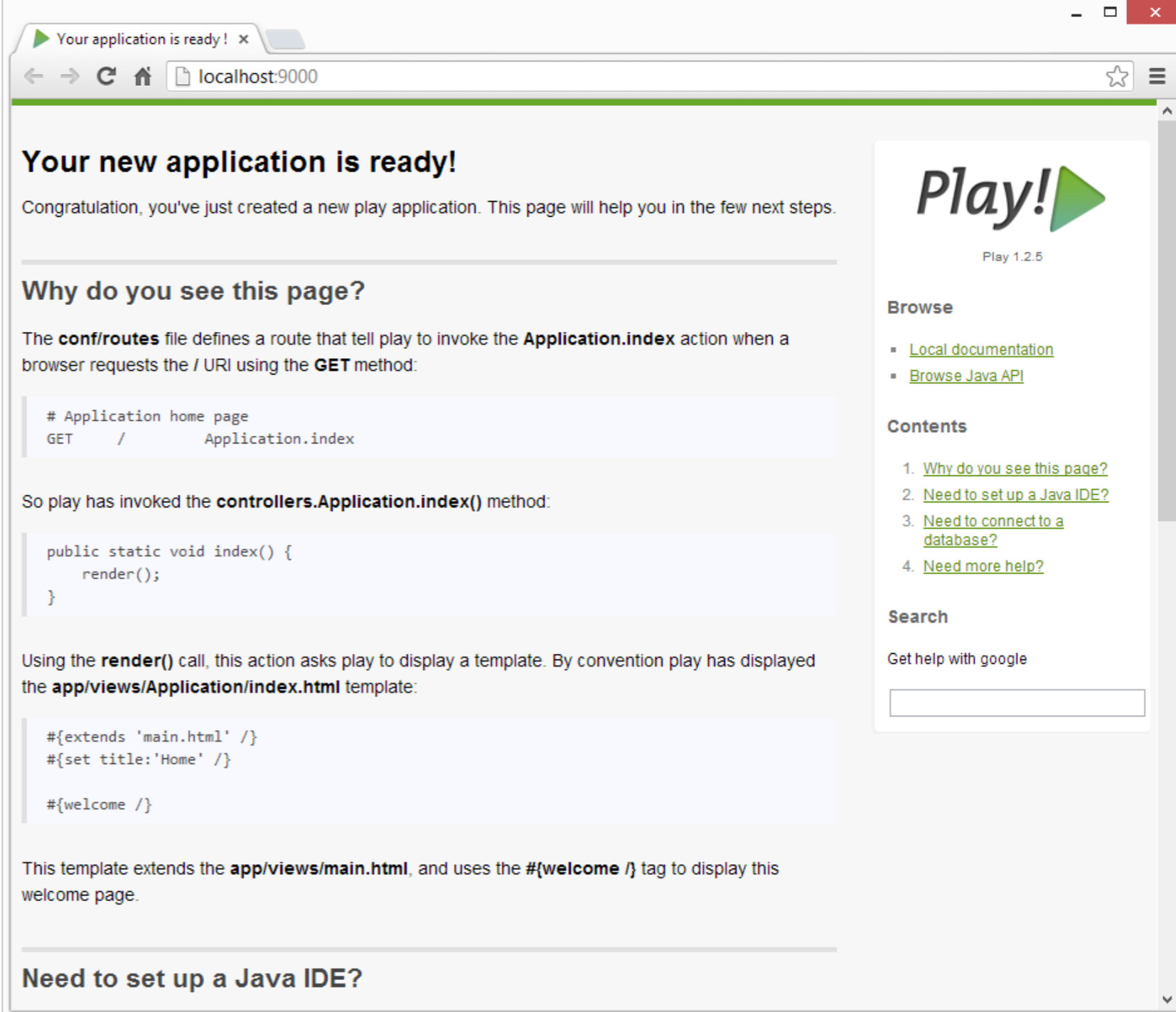
- If we 'import' the newly created project into eclipse, we can now develop the application in the IDE (Eclipse is an IDE).
- The project may not look like this initially.



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



Your application is ready! x

localhost:9000

Your new application is ready!

Congratulations, you've just created a new play application. This page will help you in the few next steps.

Why do you see this page?

The **conf/routes** file defines a route that tell play to invoke the **Application.index** action when a browser requests the / URI using the **GET** method:

```
# Application home page
GET    /      Application.index
```

So play has invoked the **controllers.Application.index()** method:

```
public static void index() {
    render();
}
```

Using the **render()** call, this action asks play to display a template. By convention play has displayed the **app/views/Application/index.html** template:

```
#{extends 'main.html' /}
#{set title:'Home' /}

#{welcome /}
```

This template extends the **app/views/main.html**, and uses the **#{welcome /}** tag to display this welcome page.

Need to set up a Java IDE?

Play!

Play 1.2.5

Browse

- [Local documentation](#)
- [Browse Java API](#)

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