

Web Development

Produced
by

Eamonn de Leastar (edeleastar@wit.ie)

Department of Computing, Maths & Physics
Waterford Institute of Technology

<http://www.wit.ie>

<http://elearning.wit.ie>



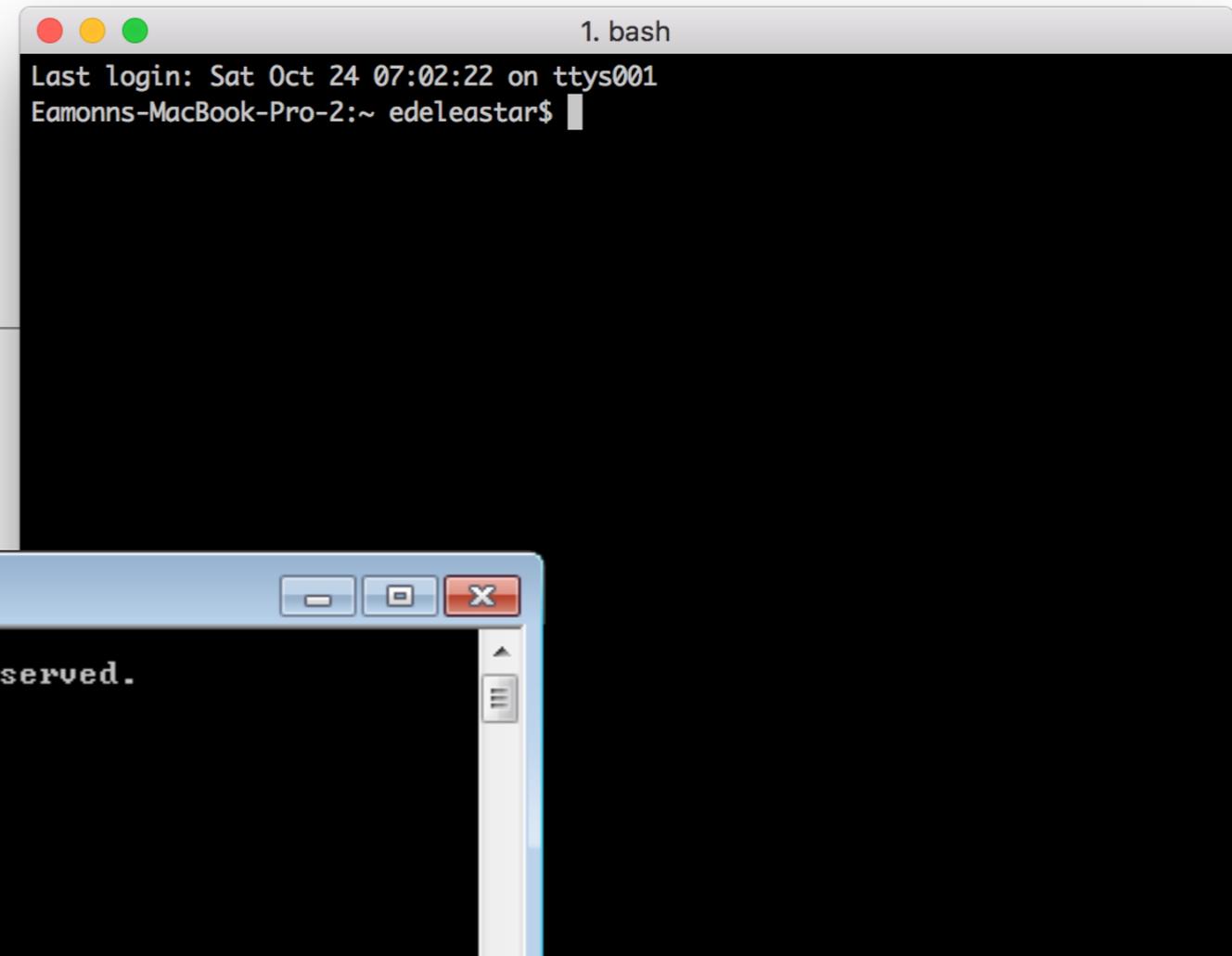
Waterford Institute of Technology
INSTITIÚID TEICNEOLAÍOCHTA PHORT LÁIRCE



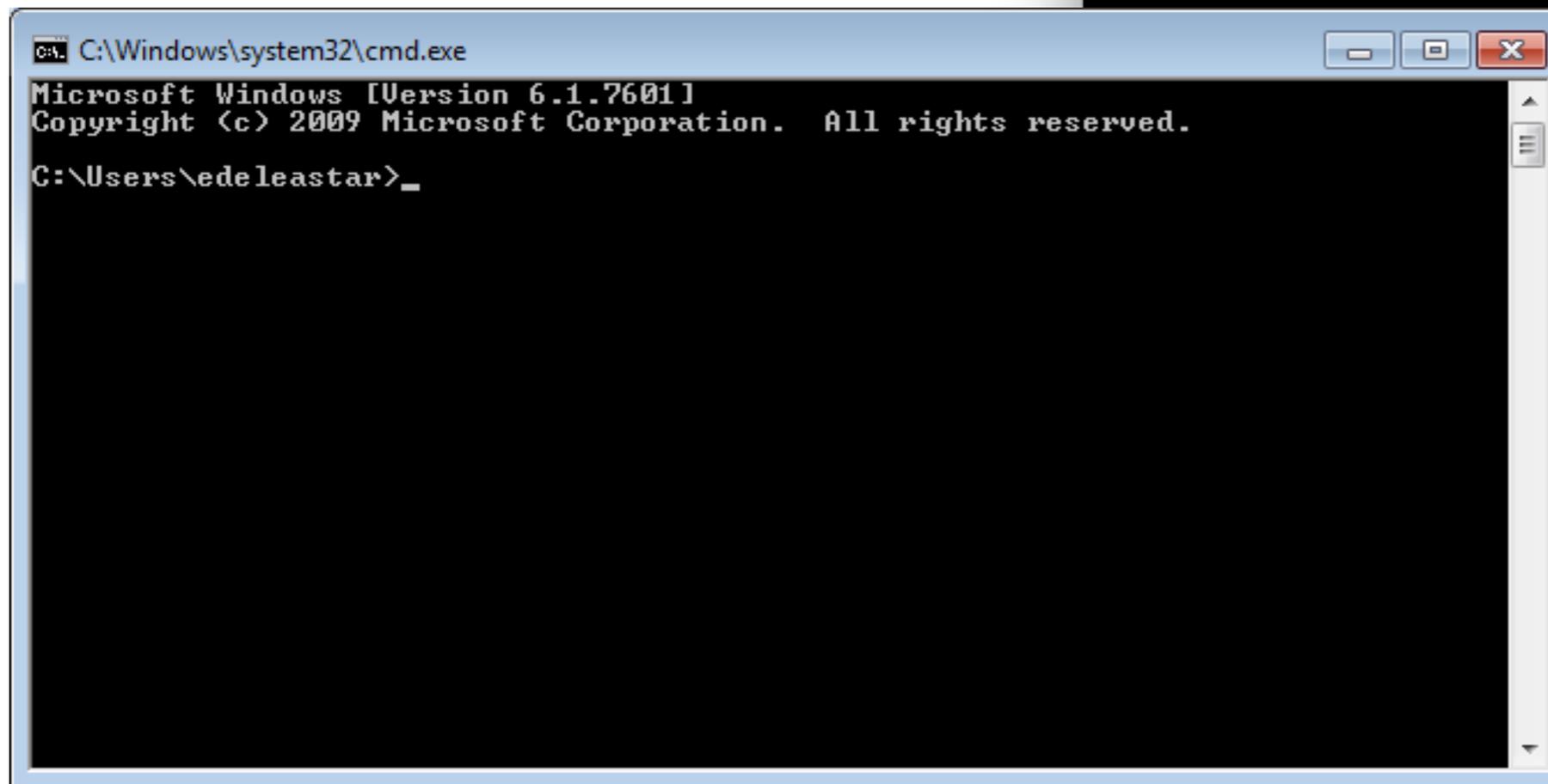
Command Prompt

Web Development

Command Line Interface

A screenshot of a Mac Terminal window. The title bar shows "1. bash". The terminal text includes "Last login: Sat Oct 24 07:02:22 on ttys001" and the prompt "Eamonns-MacBook-Pro-2:~ edeleastar\$".

```
1. bash
Last login: Sat Oct 24 07:02:22 on ttys001
Eamonns-MacBook-Pro-2:~ edeleastar$
```

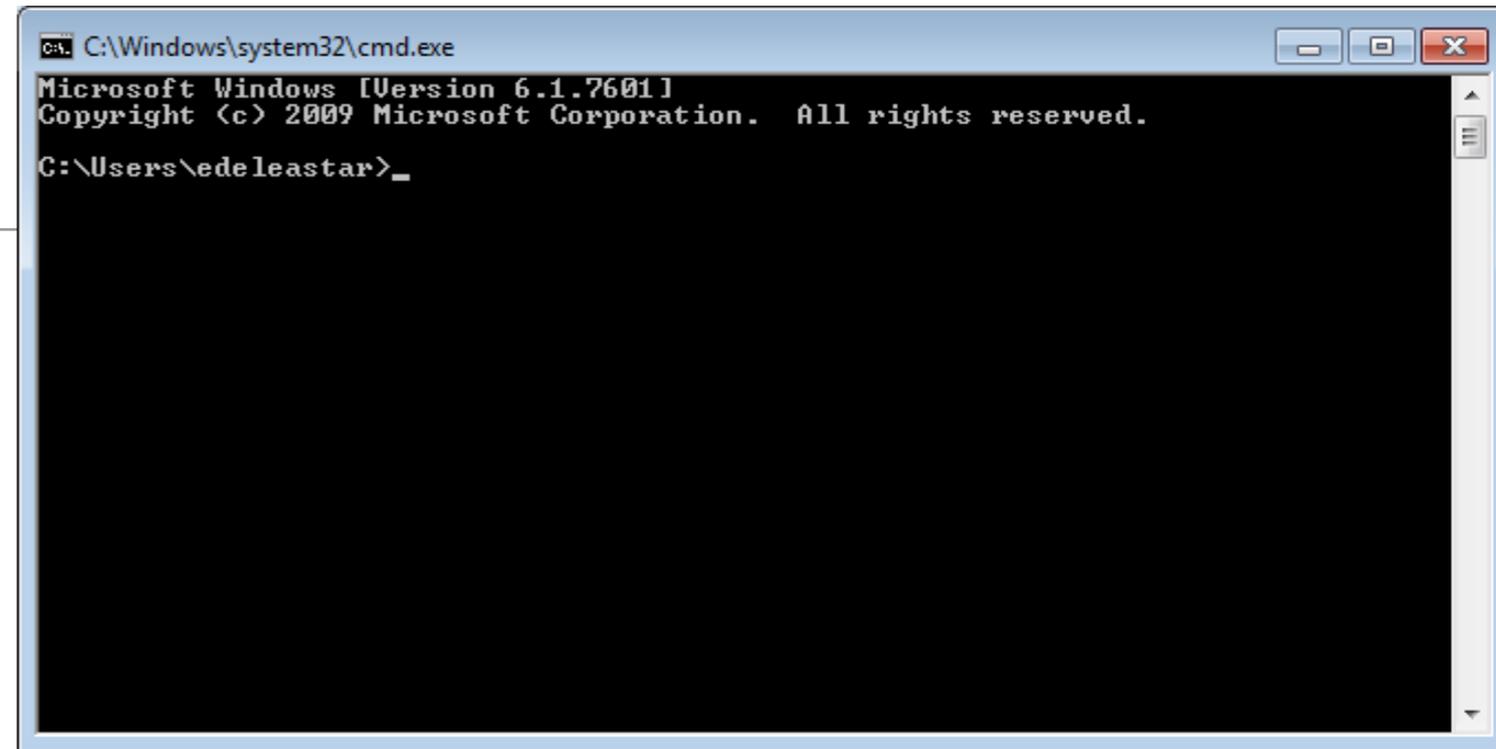
A screenshot of a Windows Command Prompt window. The title bar shows "C:\Windows\system32\cmd.exe". The terminal text includes "Microsoft Windows [Version 6.1.7601]" and "Copyright (c) 2009 Microsoft Corporation. All rights reserved." followed by the prompt "C:\Users\edeleastar>".

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

- 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

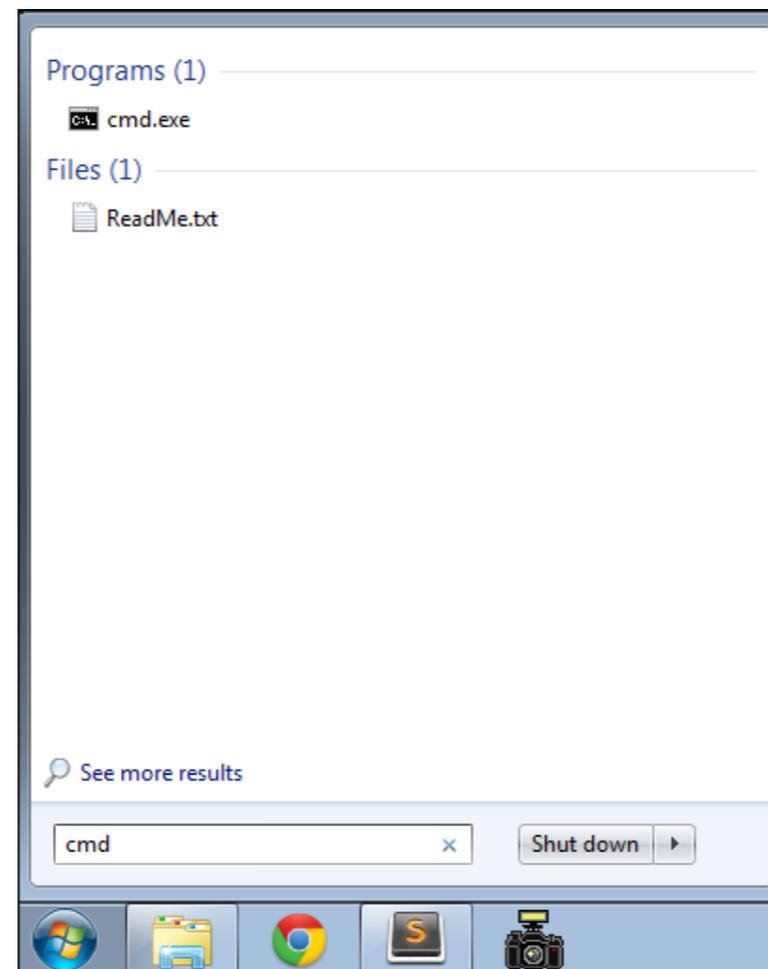
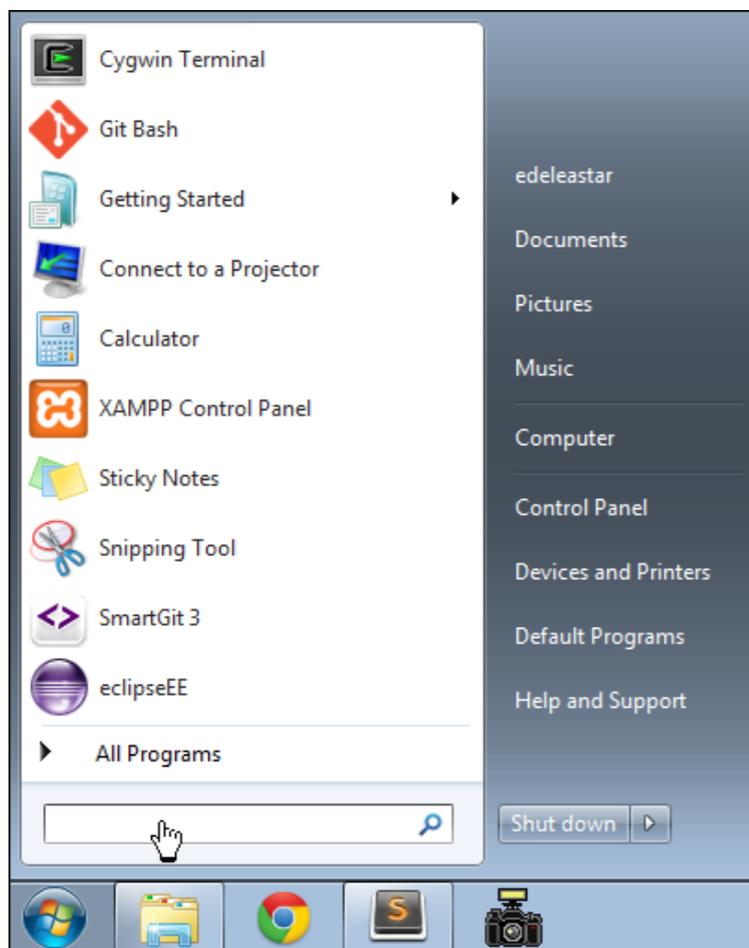
Launch on Win 7

- On Windows 7, type 'cmd' into the search box and press return



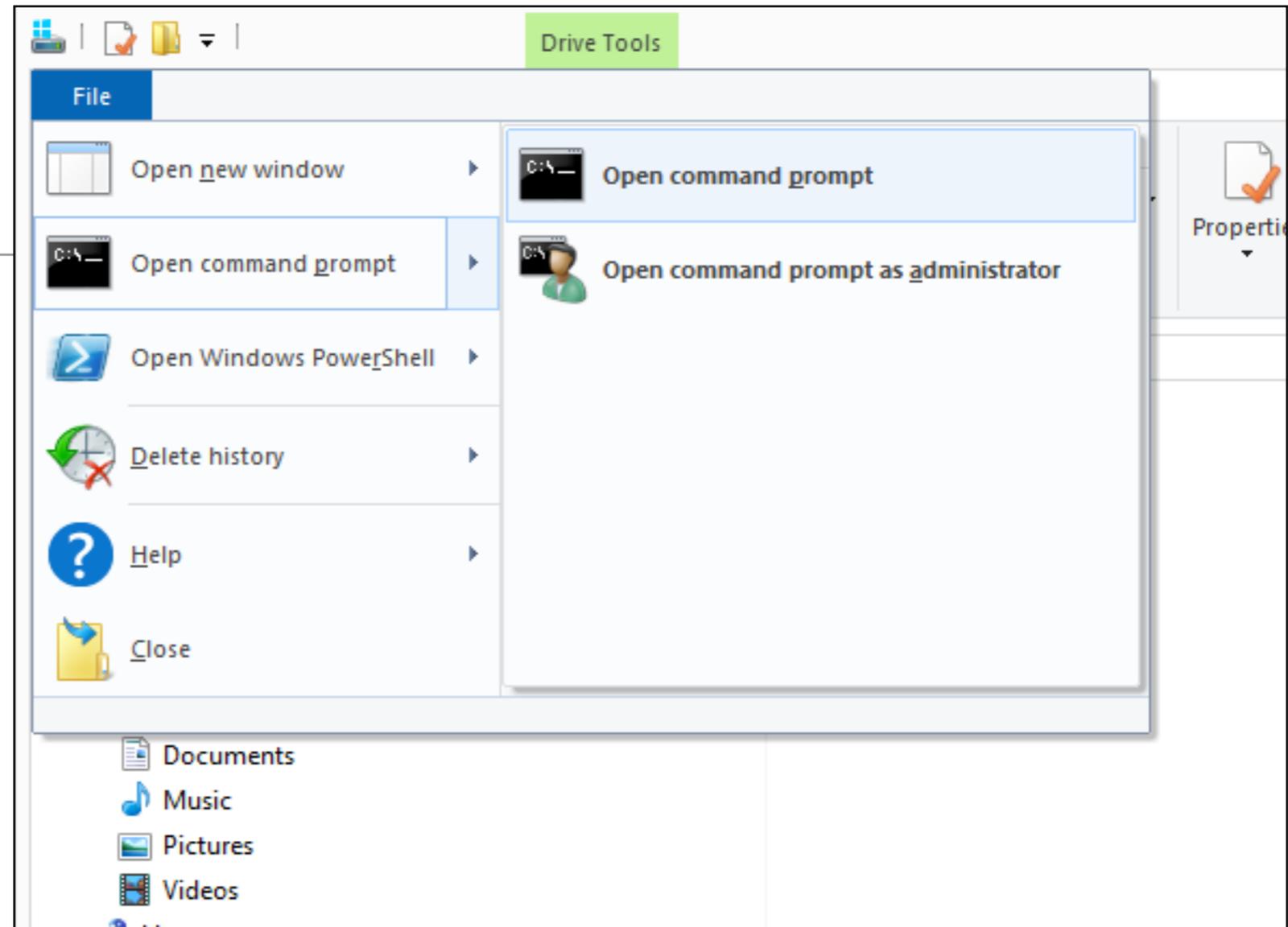
```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\edeleastar>_
```



Launch on Windows 8/10

- Run 'File Explorer'
- Command Prompt available from one of the toolbars....



```
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

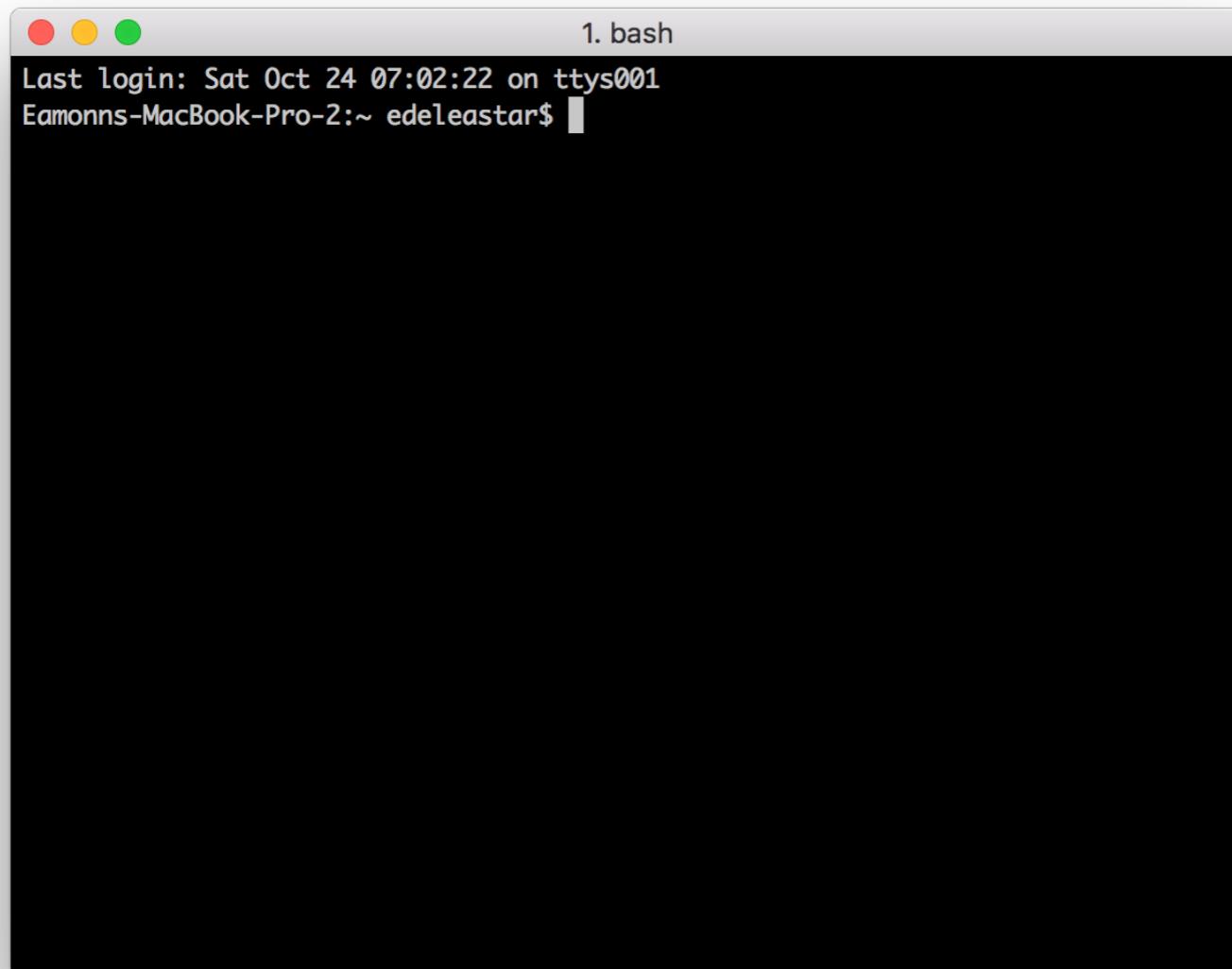
Directory of C:\workspace

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

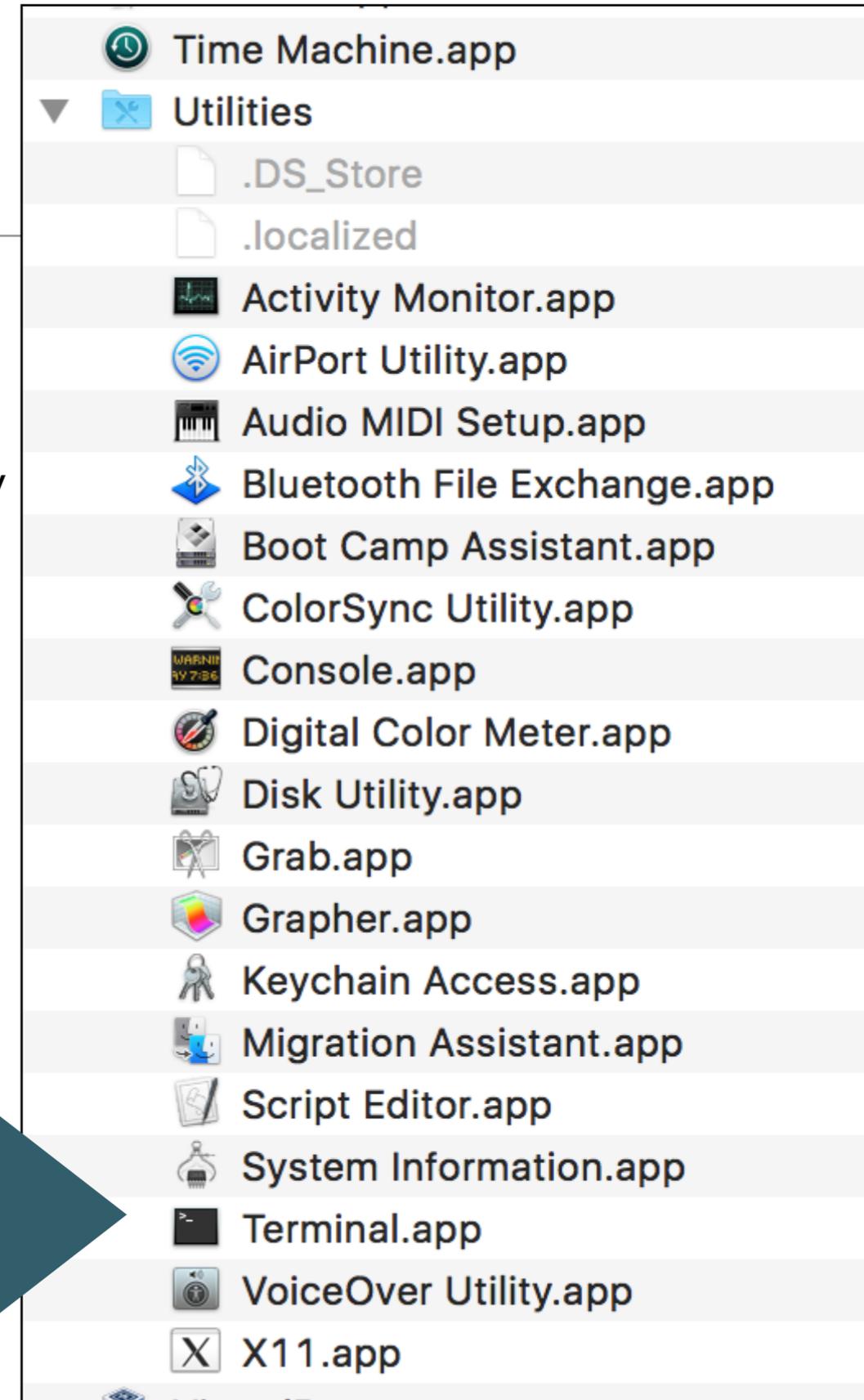
C:\workspace>_
```

On Mac

- In Applications/Utilities
- Better to install iterm2 - <https://www.iterm2.com/>



```
1. bash
Last login: Sat Oct 24 07:02:22 on ttys001
Eamonn-MacBook-Pro-2:~ edeleastar$
```



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 ..

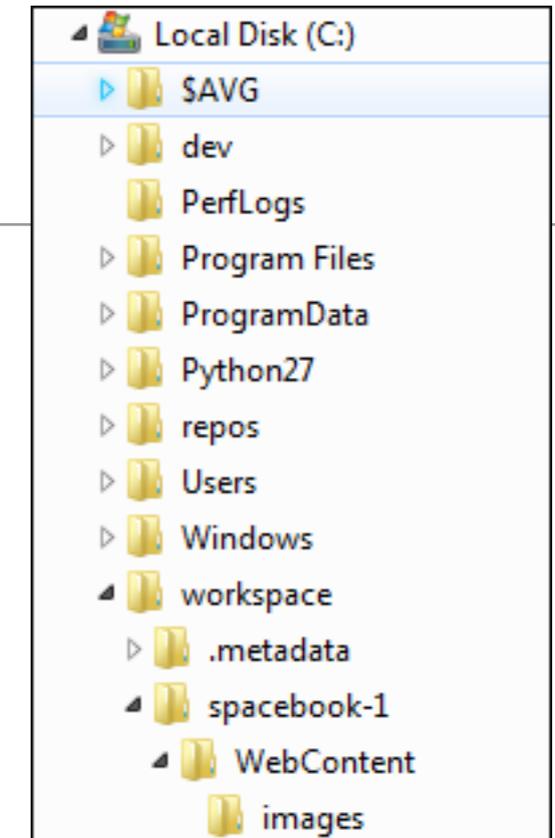
C:\>cd workspace

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

Examples

```
C:\Windows\system32\cmd.exe

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

Directory of C:\

10/06/2009  22:42                24 autoexec.bat
10/06/2009  22:42                10 config.sys
16/09/2012  17:40                <DIR>      dev
14/07/2009  03:37                <DIR>      PerfLogs
11/09/2012  09:02                <DIR>      Program Files
16/09/2012  17:17                <DIR>      Python27
11/09/2012  09:06                <DIR>      repos
08/09/2012  09:16                <DIR>      Users
09/10/2012  09:41                <DIR>      Web Development Worksp
23/09/2012  16:15                <DIR>      Windows
23/09/2012  15:59                <DIR>      workspace
                2 File(s)                34 bytes
                9 Dir(s)      8,777,117,696 bytes free

C:\>cd "Web Development Workspace"

C:\Web Development Workspace>dir
Volume in drive C has no label.
Volume Serial Number is 6C80-5ECD

Directory of C:\Web Development Workspace

09/10/2012  09:41                <DIR>      .
09/10/2012  09:41                <DIR>      ..
                0 File(s)                0 bytes
                2 Dir(s)      8,777,117,696 bytes free

C:\Web Development Workspace>_
```

```
C:\Windows\system32\cmd.exe

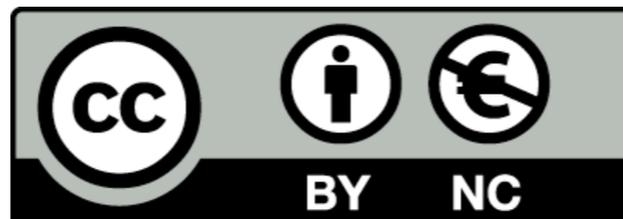
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

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:\workspace>e:
E:\>
```



Except where otherwise noted, this content is licensed under a Creative Commons Attribution-NonCommercial 3.0 License.

For more information, please see <http://creativecommons.org/licenses/by-nc/3.0/>

