1. How the Internet Works

* The internet is a network of computers and servers
* Computers send requests to servers, servers return those requests with the website
* If you send many data packets to the same place, they could go through different routers

1. Computer asks DNS (Domain Name System- a sort of phone-book) to translate url (djangogirls.org) into an IP address (216.3. 128.12)
2. These data packets are written in HTTP (Hypertext Transfer Protocol)
3. Introduction to the command-line interface

http://ss64.com/

| **Command (Windows)** | **Command (Mac OS / Linux)** | **Description** | **Example** |
| --- | --- | --- | --- |
| exit | exit | close the window | **exit** |
| cd | cd | change directory | **cd test** |
| cd | pwd | show the current directory | **cd** (Windows) or **pwd** (Mac OS / Linux) |
| dir | ls | list directories/files | **dir** |
| copy | cp | copy file | **copy c:\test\test.txt c:\windows\test.txt** |
| move | mv | move file | **move c:\test\test.txt c:\windows\test.txt** |
| mkdir | mkdir | create a new directory | **mkdir testdirectory** |
| rmdir (or del) | rm | delete a file | **del c:\test\test.txt** |
| rmdir /S | rm -r | delete a directory | **rm -r testdirectory** |
| [CMD] /? | man [CMD] | get help for a command | **cd /?** (Windows) or **man cd** (Mac OS / Linux) |

1. Introduction to Python

(skipped)

1. What is Django?

* A Web Application Framework, or a set of components that help you develop websites faster and easier.
* A sort of scaffolding for a website with all its essential components, such as
  + A way to handle user authentication (singing up, in, and out)
  + A management panel
  + Forms
  + A way to upload files
* To understand the need for a framework, we need to look in more detail at **what happens at a server:**

1. A webserver monitors a *port* for *requests*, reads that request, and responds with a webpage. Django helps create the contents of that webpage
2. The urlresolver takes the web page address and tries to match the URL to anything in its list of patterns, and passes the request to a *view* (the associated function).
3. The view then does… most everything else on the website.
4. Your First Django Project!

* Basically we will run some scripts provided by Django that will create the skeleton of a Django project for us. (a bunch of directories and files for later use)
* DON’T MOVE OR RENAME FILES