**CS50 – Week 7 Lecture Notes**

Laptop

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A-P

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Switch – DHCP – DNS  
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Router

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INTERNET

DHCP – Dynamic Host Configuration Protocol

* Dynamically get IP address by just plugging in.

**HTTP**

* HTTP request to host
  + GET/HTTP/1.1
* Server receives and sends response in HTML

**PHP SYNTAX**

* PHP is interpreted. 🡪 **Interpreter**

Command line terminal: php hello.php

Variables:

* $s = 5;

Functions:

* function f() {};

Arrays:

* $a=array(1,2,3);
* $a=[1,2,3];
  + %a[0] will give 1.

$staff = [“instructor”=>”david”, “tf”=>”tommy”];

**KEY=>VALUE**

$staff=[“instructor”=>”david”, “tfs”=>[“tommy”, “rob”]];

$a = [1,2,3];

Add:

$a[3] = 4;

$staff[“total”] = 3;

Count($a) = will give value 4.

Variables:

$s1 = “string”;

$s2 = ‘another string’;

Concatenate:

$n = 5;

$s = ‘n is ‘.%n; 🡺 **Need double quote to substitute a variable into the string**

$s = “n is %n”;

$s = “{$staff[‘total’]}”

**For each loop:**

* $array[1,2,3];

**Abstraction/Data Hiding:**

require\_once() 🡪 similar to #include

* Ex. require\_once(\_\_DIR\_\_.”/math.php”);
  + Where DIR is current directory.