

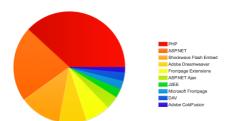
### PHP

#### PHP

- A server-side scripting language
- Originally: "Personal Home Page Tools"
- Now: "PHP Hypertext Preprocessor", a recursive acronym.
- PHP code can be embedded in HTML code

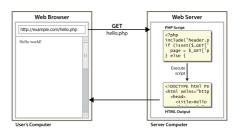
### PHP Popularity (Oct 2012)

Framework Distribution in Top Million Sites



http://trends.builtwith.com/framework

### Request Life Cycle



#### **Variables**

```
$name = expression;
$user_name = "PinkHeartLuvr78";
$age = 16;
$drinking_age = $age + 5;
$this_class_rocks = TRUE;
$page = $age + 5;
```

- names are case sensitive; separate multiple words with \_
- names always begin with \$, on both declaration and usage
- always implicitly declared by assignment (type is not written)
- a loosely typed language (like JavaScript or Python)

# Arrays

#### Associative Arrays

```
foreach ($blackbook as $key => $value) {
    print "$key's phone number is $value\n";
}

jenny's phone number is 206-867-5309
stuart's phone number is 206-685-9138
marty's phone number is 206-685-2181
    output
```

# **CGI Super Global Arrays**

 Associative arrays that contain information about HTTP request

Array	Description
\$_GET, \$_POST	parameters passed to GET and POST requests
\$_REQUEST	parameters passed to any type of request
\$_SERVER, \$_ENV	information about the web server
\$_FILES	files uploaded with the web request
\$_SESSION, \$_COOKIE	"cookies" used to identify the user (seen later)

#### if/elseif/else

```
if (condition) {
    statements;
} elseif (condition) {
    statements;
} else {
    statements;
}
```

# Looping

```
for (initialization; condition; update) {
  statements:
while (condition) {
  statements:
do 4
  statements:
} while (condition);
foreach ($arrav as $variableName) {
$stooges = array("Larry", "Moe", "Curly", "Shemp");
for ($i = 0; $i < count($stooges); $i++) {
 print "Moe slaps {$stooges[$i]}\n":
foreach ($stooges as $stooge) {
  print "Moe slaps $stooge\n"; # even himself!
```

#### **Functions**

\$root = quadratic(1, \$x, \$a - 2);

```
function name(parameterName, ..., parameterName) {
    statements;
}

function quadratic($a, $b, $c) {
    return -$b + sqrt($b * $b - 4 * $a * $c) / (2 * $a);
}

$x = -2;
$a = 3:
```

# Variable Scope

- variables declared in a function are local to that function
- variables not declared in a function are global
- if a function wants to use a global variable, it must have a global statement

```
$school = "UW";  # global
...

function downgrade() {
  global $school;
  $suffix = "Tacoma";  # local

$school = "$school $suffix";
  print "$school\n";
}
```

# Apache PHP

Disabled by default

- http.conf
  - Uncomment LoadModule php5\_module libexec/apache2/libphp5.so