Type managment functions

`is_array()`	
`is_double()`, `is_float()`, `is_real()`	same function
`is_long()`, `is_int()`, `is_integer()`	same function
`is_string()`	
`is_null()`	
`is_scalar()`	if $var is a whole number, a string or a double
`is_numeric()`	is $var. is a number or a numerical chain
`is_callable()`	if $var. is a valid function name

Data type conversion

int `intval(var)`	`intval('042')`	Ret: 42
float `floatval(var)`	`floatval('a 1.2')`	Ret: 1.2
string `strval(var)`	`strval(1.2)`	Ret: '1.2'

Varible scope and constant definition

`global myVar`	Will exists beyond its scope
`define("X", 3);`	Ex: echo 'Value'.PI;

PHP variables need not be declared in advance before being used

File system Modes

r	read-only from start (File pointer starts at the beginning of the file)
r+	read-write from start
w	write-only (Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file)
w+	read-write (erases content from file and creates it if it desn't exist)
a	append-only to EOF (existing data is preserved, creates new file if doesn't exist)
a+	read-write - append to EOF

File system Modes (cont)

x	create new file for write only (ret. FALSE an ERROR if file already exists)
x+	creates a new file for read/write (ret. FALSE an ERROR if file already exists)

fseek() can only work in mode **w+** and NOT with **a** or **a++**

Functions indicating the state of the variables

`isset()`	if the var. exists
`unset()`	removes the var. passed in parameter
`empty()`	return true if var. is null

Get variables from $_FILES

`['OBJ FILE NAME']['name']` -> gets name of file selected in a file **object**

`['OBJ FILE NAME']['tmp_name']` -> gets temp name saved in server, waiting for destination transfer

Get variables from $_FILES (cont)

`['OBJ FILE NAME']['size']` -> gets the file's size in octets

`['OBJ FILE NAME']['type']` -> gets the MIME type of the file

```
// File example
foreach($_FILES as $curImg =>
$photo){
$file = $_FILES[$curImg]["name"];
//img.jpeg
$tmpName = $_FILES[$curImg]
["tmp_name"]; //tmp/phps6L
$size = filesize($tmpName)/1024;
//43
$ext = pathinfo($file,
PATHINFO_EXTENSION); //jpeg
$type = filetype($tmpName); //file
$mimeType = $_FILES[$curImg]
["type"]; //image/jpeg
}
move_uploaded_file($tmpName,
"$path$file"))
```

String functions

`explode('sep', 'str')`	Ret. array without 'sep'
`implode(glue, arr)`	
`strlen(str)`	Ret. length of string
`substr(str, start, len)`	
`strtolower(str)`	
`strtoupper(str)`	
`nl2br(str)`	

String functions (cont)

`sprintf(frmt, args)`

`strip_tags(str,allowed_tags)`

`strpos(str,needle)`

`strrev(str)`

`strstr(str,needle)`

```
//Exemple of substr de $adresse =
127.0.0.1
$class = substr($adresse, 0, 3) //
=> 127
$class = substr($adresse, 3) // =>
.0.0.1
$class = substr($adresse, -3); //
=> 0.1
$class = substr($adresse, 0, -3);
// => 127.0.
```

Code reusability

`require('script.php')`	Stops script if **error**
`require_once('script.ph')`	
`include('script.php')`	Warning if **error**
`include_once('script.php')`	

_once -> makes sure that the code will be included or re-evaluated only once

PHP Information

`phpinfo()`	Version of PHP + infos

Image generation

`header('Content-type: image/jpeg')`

`$img = ImageCreate(width, height)`

`$img = ImageCreateTrueColor(width, height)`

`$img = ImageCreateFrom[PNG|JPEG|GIF] ('imgname');` //create from existing image

`ImageColorAllocate($img, r,v,b)` // rvb in 0 to 255

`Imagegammacorrect($img, int gamma_in,int gamma_out)`

`ImageFill($img, x start, y start, color)`

`imagefilledrectangle($img, $x1, $y1, $x2, $y2, $color);`

`imagestring($img, $font, $x, $y, $string, $color);`

```php
<?php
header("Content-Type: image/png");
$im = imagecreate(110, 20);
$background_color =
imagecolorallocate($im, 0, 0, 0);
$text_color =
imagecolorallocate($im, 233, 14,
91);
imagestring($im, 1, 5, 5, "A Simple
Text String", $text_color);
imagepng($im);
imagedestroy($im);
?>
```

Arrays

`$array[] = "a"`	No need to specifiy index
`count(array)`	Nb. elements in array
`sizeof(array)`	Nb. elements in array

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Arrays (cont)

`array_count_value(array)`	value=>freq
`array_diff(arr1,arr2)`	
`array_filter(arr,function)`	
`array_flip(arr)`	
`array_intersect(arr1,arr2)`	
`array_merge(arr1,arr2)`	
`array_pop($arr)`	
`array_push(arr,var1, var2...)`	
`array_reverse(arr)`	
`array_search(needle, arr)`	
`array_walk(arr,function)`	
`in_array(needle,haystack)`	
`sort(arr)`	smaller < bigger
`rsort(arr)`	bigger > smaller
`foreach (array_expression as $value) statement`	
`foreach (array_expression as $key => $value) statement`	

Arrays (cont)

`` `array_slice($array, 0, 3); ``	returns first 3 elements

//Use of array_slice()

`$input = array("a", "b", "c", "d", "e");`

`$output = array_slice($input, 2);` *// returns "c", "d", and "e"*

`$output = array_slice($input, -2, 1);` *// returns "d"*

`$output = array_slice($input, 0, 3);` *//returns "a", "b", and "c"*

PHP integrated arrays

`$_GET`	
`$_POST`	
`$_FILES`	
`$_COOKIES`	
`$_SESSION`	
`$_ENV`	
`$_SERVER`	
`extract(arr,type, pref)`	get vals. from assoc. arr;
`EXTR_OVERWRITE`	ow existing vars.
`EXTR_SKIP`	won't ow existing vars
`EXTR_PREFIX_ALL`	

PHP integrated arrays (cont)

`EXTR_PREFIX_INVALID`	

To get values easily from theses arrays, use function extract(). If we have:
> $_POST['name']
> $_POST['surname']
Using the function: extract($_POST, EXTR_OVERWRITE) will give us:
>$name
>$surname

>EXTR_PREFIX_ALL // create new vars. with the prefix spcified in 3rd param for all keys present in the array
>EXTR_PRERFIX_ALL // creates new vars. with prefix specified in 3rd param only for invalid exsting variable names such as $1

Environnement variables from $_SERVER

`PHP_SELF`	path to curr. script
`SERVER_NAME`	Ex: Localhost
`DOCUMENT_ROOT`	root of curr.script
`REMOTE_ADDR`	IP requesting curr. page
`REMOTE_PORT`	client port -> server
`SCRIPT_FILENAME`	abs. path to curr.script
`SERVER_PORT`	Server port used

Environnement variables from $_SERVER (cont)

`REQUEST_URI`	URI is for page access

>PHP_SELF //return value is relative to root document
>SERVER_PORT //server port used for communication (usually :80 but if using SSL can be replaced par number of secured HTTP
>REQUEST_URI // can be for example '/index.html'

File System Functions

`fopen('filename', 'mode')`	
`fclose($handle)`	
`fgets($handle, $len)`	*without 2nd param, fgets read line till EOL*
`fputs($handle, 'str')`	
`file('folder/file')`	*can also be url*
`copy(source, dest)`	
`filemtime(file)`	
`filesize('folder/file')`	
`file_exists(file)`	**doesn't work with HTTP or FTP**
`fread(handle, len)`	
`fwrite(handle, str)`	

File System Functions (cont)

`readfile(file)`	
`fgetcsv(handle,len,sep)`	
`fputcsv()`	
`fseek(handle,offset)`	goto line of curr. offset (needs **r+** or **rw+** mode)
`rewind(handle)`	goto start of file
`chmod(file, unix rights)`	
`unlink('filename')`	deletes file
`is_link('filename')`	
`is_writeable('filename')`	
`is_readable('filename')`	
`pathinfo($file, PATHINFO_EXTENSION);`	Ret. ex: pdf
`filetype($file)`	Ret: **file** or **dir**

File System Functions (cont)

`filesize($file)/1024`	Ret. file size (/ 1024 to convert to octets)

```php
//Example of openinng a file:
$handle = fopen("file.txt", "w");
if (!$handle) {
echo 'Can't create file';
exit;
}
else {
while(!feof($handle)) {
$line = fgets($handle, 255);
fputs($handle, $line.'suffix');
$appendLine = fgets($handle, 255);
echo $appendLine.'<br>';
}
fclose($handle);
```

Folder system functions

`is_dir('folder name')`	
`opendir('folder name')`	
`readdir(handle)`	

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Folder system functions (cont)

`scandir('folder name')`	Returns array of folder content

```
//Example with opendir
$dir = "/etc/php5/";
if (is_dir($dir)) {
if ($dh = opendir($dir)) {
while (($file = readdir($dh)) !==
false) {
echo "filename: $file : filetype: "
. filetype($dir . $file) . "\n";
}
closedir($dh)
}
}
Example with scandir()
$nomDossier = 'dossier';
$tableContDossier =
scandir($nomDossier);
foreach($tableContDossier as $fic)
{
echo $fic.'<br>';
}
```

File transfer functions

`is_uploaded_file ($_FILES['fichier']['tmp_name]`	verify file presence in tmp folder
`move_uploaded_file('filename','path/filename')`	Checks is file comes from tmp folder unlike fonction copy()
`copy('filename','path/filename')`	

Database connection

`mysqli_connect('host', 'user', 'pass') or die ("Can't establish connecion to databse")`	
`mysqli_select('databsename');`	
`$queryResult = mysqli_query("SELECT * FROM table");`	
`mysqli_error() // boolean to return error if table doesn't exist`	
`$row = mysql_fetch_array($result, MYSQL_ASSOC)`	
`mysqli_list_db()`	
`mysqli_list_tables()`	
`mysqli_num_rows() //ret. nb. rows from query`	

Example fetching array values:
while ($row = mysql_fetch_array($result, MYSQL_ASSOC) {
$name = $row['name'];
$country = $row['country'];
}

PHP regular expressions

Check if **$string** matches **$expression**	`preg_match('(docx|doc|xls|pptx)', $extension);`

PHP regular expressions

Check if **$extension** is either "docx", "doc", "xls" or "pptx"	`preg_match('(docx|doc|xls|pptx)', $extension);`

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