

Arrays : `$v = array('a', 'b is here', 'helloC');`

`$v[$i]` to access i th value

• Iterations:

```
foreach ($v as $tmp){
    echo $tmp . "\n";
}
```

• Iteration with changing values:

```
foreach ($v as &$tmp){
    /* any alterations to $tmp
    will be applied to each value
    in $v as well */
}
```

• Array functions:

`count($v)`; length

`in_array($v, $x)`; check if exists

`list($a, $b, $c...)`; list to array

`range($a, $b)`; $a \rightarrow b$

`sort($v)`; alphanumerically

`rsort($v)`; reverse-alphanumerically

• Associative: A php Hash map

`$v = array("Name" => "Xol", "LName" => "olab" ...);`

`$v["LName"]` to access

• Iterations:

```
foreach ($v as $elem)
```

```
foreach ($v as $key => $elem);
```

`sort($v)`

`asort($v)`

`krsort($v)`

by value
no keys

by value
with keys

by key
with value

`array_keys($v)`; only keys

`array_values($v)`; only values

`array_search($elem)`; Key

[`rsort`, `asort`, `krsort`]
reverse

Date : has 30 parameters `Date("n")`;

Useful to us: "H" - "i" - "d" - "m" - "Y"
hour minute day month year

Globals : global `$x`;

access with `$GLOBALS["x"]`;

we can also define
static `$x` that remains the
same throughout function calls.

Function Notes to return an array:

`func { return array($a, $b, $c); }`

`list($a, $b, $c) = func();`

Passing Variables:

• GET: ` ... `
at name.php:

`$x = $_GET['a'];`

`$y = $_GET['b'];`

• POST: `<form action = "name.php" method = "post" >`

`<input name = "a" ... />`

`<input name = "b" ... />`

`<input type = "submit" ... />`

`</form>`

to have the submit button re-route to the same page, replace with:

`action = "<?php print $_SERVER['PHP-SELF'] ?>"`

Notes

`<input type = "checkbox" name = "choice" />`

`< " " " name = "choice" />`

access them with

`$_POST['choice']`

`$_POST['choice']`

at name.php:

`$x = $_POST['a'];`

`$y = $_POST['b'];`

External Files:

`include("file.php");` As if the content of this file are now all present wherever we called it.

Notes: file not found => continues

`require("file.php");` stops the entire php script if file is not found.

Dynamic Function:

`function name() { ... }`

`$hello = "name";`

`$hello();` ← works like a normal function

Upload Files (Forms):

`<form ... enctype = "multipart/form-data" method = "POST">`

`<input type = "hidden" name = "MAX_FILE_SIZE" value = "51200">`

`<input type = "file" name = "upload3">`

`< " " " type = "submit" value = "finish" >`

`</form>`

information about the uploaded file becomes available in `$_FILES['upload3']`

Type (images/jpg) size (int) name (jpg)

Browsing Directories (folders):

→ `$x = opendir("c:\\...\\ch3");` ← false if path is invalid

`$file = scandir("c:\\...\\");` ← file is now an array

don't forget to `closedir($x);`

Notes: we can also use `while (false !== ($file = readdir($x)))` to read one-by-one.

Notes: `scandir` needs no opening & closing.