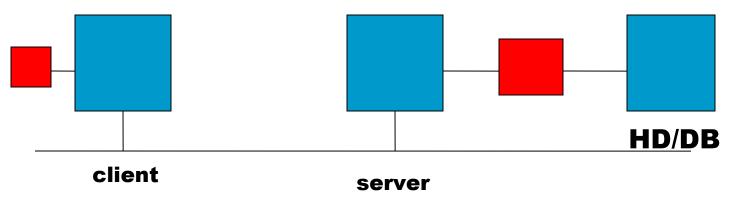
PHP: introduction

Dynamic model



- Included with HTML code
- Execution server ide
- Better security...

Main lines

Inclusion PHP: specific markup
<?php...</p>

?>

- File extension: .php instead of .html
- Syntax:similar to C/JavaScript/Java
- Execution server side ;-)
- To practice : WAMP or LAMP

1st example

```
<html>
<head>
  <title>test PHP</title>
</head>
<body>
<?php echo "Hello <strong>Everybody</strong>"
?>
</body>
</html>
Exercise: center, bold...;-)
PHP = text generator
```

Include command

```
<html><head>
    <title>MODULARITE</title>
</head>
<body>
<?php include("header.html");
    include("menu.html"); ?>
Blablabla HTML...(main content)...
<?php include("footer.html"); ?>
</body></html>
```

- Include external text files
- If missing file
 - include --> warning (more flexible)
 - require --> fatal error

Main template for a web page

```
<?php
include("header");
include("menu");
?>
Bla bla bla
<?php include("footer"); ?>
```

- Where are the div?
- Where is JavaScript?
- Can be recursive :
- What is sent to the client? HTML only ;-)

- Within included files!
- Within included files!
- ex. include("alert.php")

With forms!

```
<body>
<form name="maforme"
  "action="alert.php" method="POST" >
enter your surname:
  <input type="text" name="yoursurname"><br/>>
enter your firstname:
  <input type="text" name="yourfirstname">
  <input type="submit" value="clic here">
</form>
</body>
</html> Nothing really new...
To be written: alert.php
```

Get the parameters

```
<?php
$name = $ POST['yourfirstname'];
if ($name=="") {echo "enter your name please !";}
else {
  $string= "<strong>Hello " . $name .
  "</strong>";
 echo $string;
  } ?>
. : concatenation operator
Boring syntax $ POST['...']!
Variable name with prefix $
No type declaration (see JavaScript)
Case sensitive PhP != pHp ;-)
```

Simple exercise

- Add an entry for the firstname and display «Hello firstname surname» with PHP
- Check the parameters with PHP.
- Mix JavaScript/PHP: checking client side with Javascript
 - Write a script checkParam (...)
 - Event OnSubmit to add as a form parameter
 - Action is executed iff OnSubmit returns true

```
<form action="...php" method="POST"
OnSubmit="return(checkParam(.))">
```

Pro/cons

- Easy integration with HTML
- Syntax similar to C/Java
 - OO philosophy
 - Modularity with functions, objects
- No compatibility issue with browsers
- A lot of web sites to learn But...

Security again!

Files with PHP

- Add a counter (web profiling) ?
- How ?
- Idea: (server side... of course!)
 - A file with the counter value inside
 - Read counter value in the file
 - Update counter value and write
- » Need file handling functions!

File functions

- Functions (similar to C)
 - fopen(filename, mode (r w a)
 - fread/fgets(file handler, size data to be read)
 - fwrite/fputs(file handler, data)
 - fclose(file handler) //very important
 - include /require
 - etc...
- What about our counter now?

The code...

```
<?php function calc() {</pre>
$counter = fread($file , filesize("counter.txt")) ;
fclose($file) ;
$file = fopen ("counter.txt" , "w");
$counter = $counter + 1 ;
                                      //we update
fwrite($file , $counter ) ;
                                     //we write
fclose($file) ;
return $counter; }
 ?></head>
<body>
hello.<br>>
You are the <?php echo calc() ?> visitor. //we display
</body>
```

A simple exercise

- Add a « reset » button to reset the counter (Add a reset.php file)
 - This is not a basic reset HTML button;-)
- Modify the code in such a way as the counter appears in the same page in a text area bottom of the page

Files handling functions

- feof(\$file): boolean end of file
- explode(\$delim, \$string)
 - -Return an array
 - Allow to analyze a file
- file_exists(\$file): boolean
- Etc... classic functions (see Web)

Upload files?

A) Prepare the form

get-file.php

- How does it work server side?
 - files stored in a temporary area
 - Global variable array 2x2 \$_FILES server side
 - 1 line per file characteristics of the file
 - access via \$ FILES['myfile']['???']
 - Useful function: basename

```
<?php
$name=($_FILES['myfile']['name']);//name client side
$size=($_FILES['myfile']['size']);//size of the file
$tempname=($_FILES['myfile']['tmp_name']);//temp name
of the file</pre>
```

Then move the file ...asap ;-)

move_uploaded_file

- PHP function
- move_uploaded_file(what, where)
 - -What: temporary file
 - -Where: wherever we want to
- Then...

Return a Boolean value: TRUE/FALSE

And we get

Then ... file content manipulation!

File treatment

General scheme

```
$file=fopen("monfichier","r");
while(!feof($file)) {
 $line = fgets($file);
 $tab=explode(",",$line);//get an
 array
 //we compute };
fclose($file);
                 That's it!
            It's up to you now ;-)
```

Redirection

- Pb:
 - Redirect from a missing page
 - Enhance the UX

```
header('Location:http://www...')
```

- Should be at the beginning
- Useful for mobiles/tablet PC
- Pb: where does the query come from ?

Client info with PHP

- Pb: who is the client to provide adequate answer (OS and browser)
- Method 1:
 - Variable \$HTTP_USER_AGENT
 - String analysis with strpos for instance
 - No standard till date
- Method 2
 - file browscap.ini database a
 - fonction get browser(a,b)

```
if (get_cfg_var('browscap')) {//do we have browscap.ini
$browser = get_browser(null, true); //we get data in an
    array }
else
{echo "<br/>browscap not set";die();}
```

Browscap analysis...

■We get...

```
Array
(
[browser_name_regex] => ^mozilla/5\.0 (windows; .; ....
[browser_name_pattern] => Mozilla/5.0 (Windows; ?; ....
[parent] => Firefox 0.9
[platform] => WinXP
[browser] => Firefox etc....
}
```

Analysis and redirection (ex. : bbc, etc.)

Pro/cons

- Pb:
 - browscap.ini difficult to handle
 - browscap.ini not updated
- Idea: client side info
 - Redirection with
 - Light CSS (see mobile.lemonde.fr)
 - With JavaScript

Client Info with JavaScript

- Object : navigator
- Browser Code : navigator.appCodeName
- Browser Name: navigator.appName
- Browser Version: navigator.appVersion
- Cookies Enabled: navigator.cookieEnabled
- OS: navigator.platform
- User-agent header:navigator.userAgent analysis and redirection with Javascript document.location.replace(URL)

Conclusion

- HTML/PHP interface
 - simple
 - powerful
- A lot of info (open source)
- Widely distributed and well known issues
- A lot of free packages with PHP(oscommerce, moodle, wordpress,etc.)
- LAMP/WAMP very stable