



Advanced

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PHP Date and Time



- The PHP **date()** function formats a timestamp to a more readable date and time.

- Syntax: `date(format, timestamp)`

- Example

```
echo date("Y/m/d") . "<br />";  
echo date("Y.m.d") . "<br />";  
echo date("Y-m-d");
```

- Result

```
2009/05/11  
2009.05.11  
2009-05-11
```

PHP Date and Time

- The **mktime()** function returns the Unix timestamp for a date.

- Syntax:

```
mktime(hour, minute, second, month, day, year, is_dst)
```

- Example: to go one day in the future:

```
<?php
$tomorrow = mktime(0, 0, 0, date("m"), date("d")+1,
date("Y"));
echo "Tomorrow is ".date("Y/m/d", $tomorrow);
?>
```

- The output: Tomorrow is 2009/05/12
-

PHP Date and Time

■ Check Date in PHP

□ Syntax

`checkdate(month, day, year)`

□ Validates a Gregorian date

□ A Gregorian date is valid if

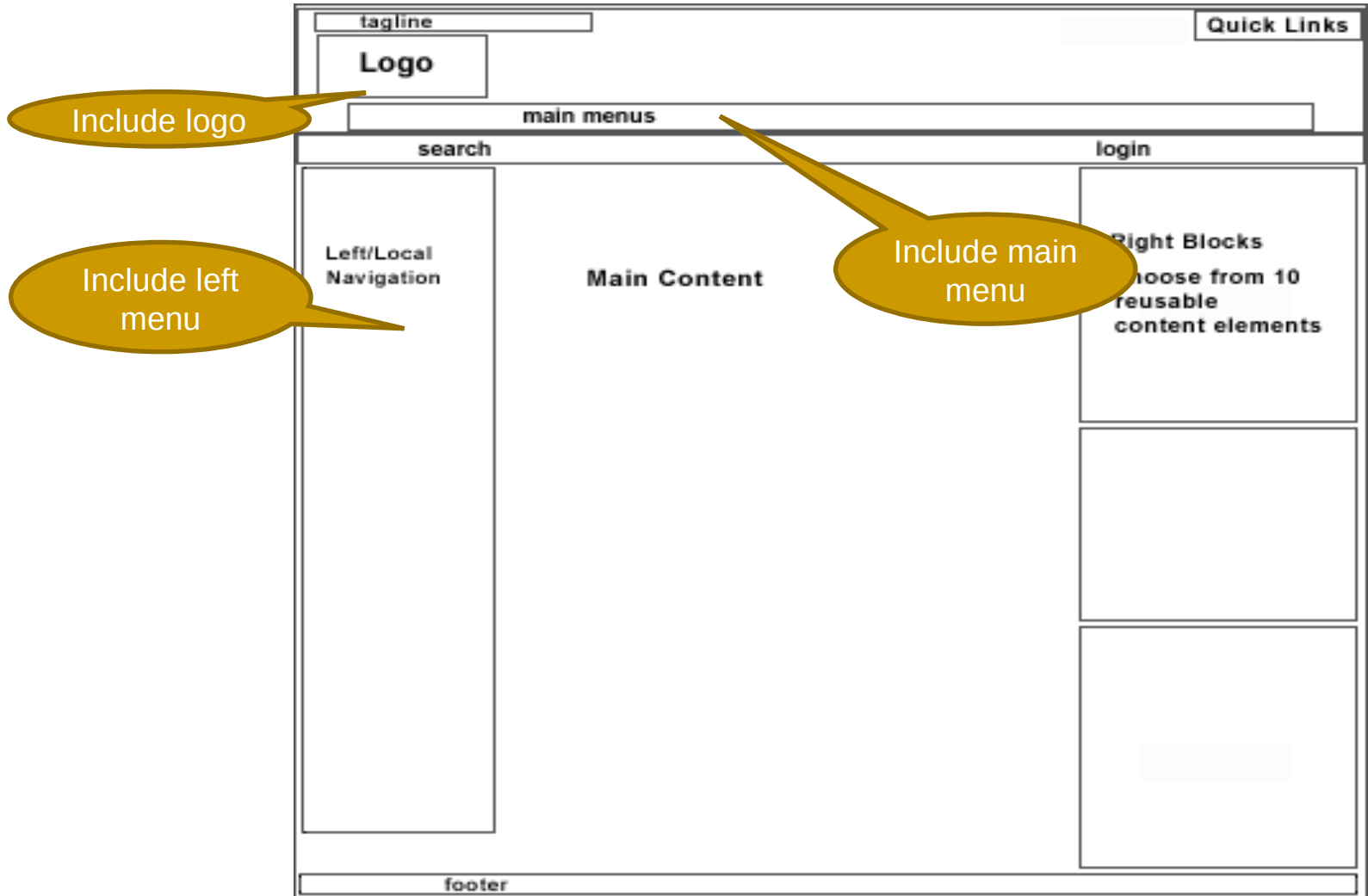
- the month is specified between 1 to 12
- the day is within the allowed number of days for the particular month
- the year is between 1 and 32767 inclusive

□ Example

- `checkdate(2, 29, 2012) => true`
- `checkdate(2, 29, 2013) => false`



Embedding External Files



Embedding External Files

- Use the `include()` and `include_once()` functions for files that will not prevent the application from running
- Use the `require()` or `require_once()` functions for files that will prevent the app from running if not present
- You can use any file extension you want for include files



Embedding External Files

- Assume we have a standard menu file, called “`leftmenu.php`”, that should be used on all pages.

```
<a href="/default.php">Home</a>
```

```
<a href="/about.php">About Us</a>
```

```
<a href="/contact.php">Contact Us</a>
```

- All pages in the Web site should **include** this menu file. Here is how it can be done.

```
<div class="leftmenu">
```

```
<?php include("leftmenu.php"); ?>
```

```
</div>
```

```
<h1>Welcome to my home page.</h1>
```

```
<p>Some text.</p>
```

PHP File Handling

- `fopen()` function is used to open files
- `fclose()` function is used to close an open file
- `fgets()` function is used to read a single line from a file
- `fgetc()` function is used to read a single character from a file
- `feof()` function checks if the "end-of-file" (EOF) has been reached.

PHP File Handling

- Reading a file by line or by character

```
<?php
$file = fopen("welcome.txt", "r") or exit("Unable to
open file!");
//Output a line of the file until the end is reached
while(!feof($file))
{
    // read line by line
    echo fgets($file). "<br />";
    // read character by character
    echo fgets($file). "<br />";
}
fclose($file);
?>
```

PHP Cookies



■ What is a Cookie?

- ❑ A cookie is often used to identify a user.
- ❑ A cookie is a small file that the server embeds on the user's computer.
- ❑ Each time the same computer requests a page with a browser, it will send the cookie too

■ How to Create a Cookie?

```
setcookie(name, value, expire);
```

PHP Cookies

- Create a Cookie

```
<?php
$value = "iPhone is my favorite phone";
setcookie("myCookie", $value);
// expire in 1 hour
setcookie("myCookie", $value, time() + 3600);
// expire one hour ago
setcookie ("myCookie", $value, time() - 3600);
?>
```

PHP Cookies

- Retrieve a Cookie value

```
<?php
if (isset($_COOKIE["myCookie"]))
    echo "Welcome " . $_COOKIE["myCookie"];
?>
```

- Delete a Cookie

```
<?php
// set the expiration date to one hour ago
setcookie("myCookie", "", time()-3600);
?>
```

PHP Cookies



- Store information about one single user, and available to all pages in one application.
- Session is temporary and will be deleted after the user has left the website.
- Before storing user information in session, you must first start up the session.

```
<?php session_start(); ?>
```

- This function must appear **BEFORE** the `<html>` tag.

PHP Sessions

- Storing & retrieving a session variable

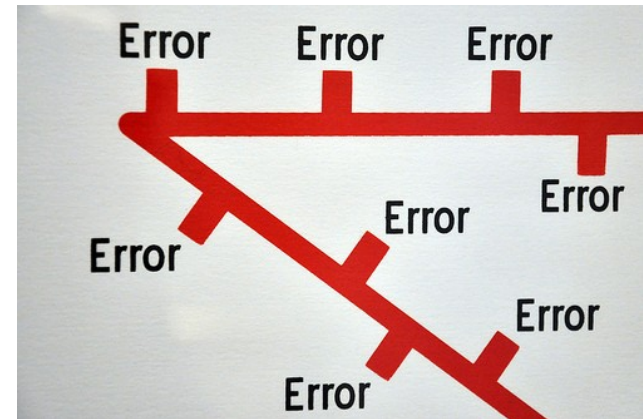
```
<?php
if(isset($_SESSION['views']))
$_SESSION['views']=$_SESSION['views']+1;
else
$_SESSION['views']=1;
echo "Views=". $_SESSION['views'];
?>
```

- Destroying a Session

```
<?php
unset($_SESSION['views']);
// or we can use
session_destroy();
?>
```

PHP Error Handling

- When creating scripts and web applications, error handling is an important part.
- Lacking error checking code, your program may be open to security risks.



PHP Error Handling

- Using the die() function

```
if(!file_exists("welcome.txt")){  
    die("File not found");  
}  
else {  
    $file=fopen("welcome.txt","r");  
}
```

- If the file does not exist, an error like this:

```
Warning: fopen(welcome.txt) [function.fopen]:  
failed to open stream:  
No such file or directory  
in C:\webfolder\test.php on line 2
```

PHP Error Handling

```
try {  
    // do something  
} catch (error)  
    // about errors  
}
```

- Try, throw and catch
 - **Try** - A function using an exception should be in a "try" block. If the exception does not trigger, the code will continue as normal. However if the exception triggers, an exception is "thrown"
 - **Throw** - This is how you trigger an exception. Each "throw" must have at least one "catch"
 - **Catch** - A "catch" block retrieves an exception and creates an object containing the exception information

PHP Error Handling

```
try {  
    // do something  
} catch (error)  
    // about errors  
}
```

■ Example

```
<?php  
function checkNum($number)  
{  
    if($number>1){  
        throw new Exception("Value must be 1 or below");  
    }  
    return true;  
}  
//trigger exception in a "try" block  
try {  
    checkNum(2);  
    echo 'If you see this, the number is 1 or below';  
}  
catch(Exception $e){  
    echo 'Message: ' . $e->getMessage();  
}  
?>
```

