



GROUND GURUS

"Effective center for teaching, learning, creating and development"

PHP Date and Time

- `date()` function is used to format a date and/or a time
- formats a timestamp to a more readable date and time

`date(format, timestamp)`

- *returns the current date/time of the server*

`time()`

- *returns the current unix timestamp*

PHP Include/Require Files

- The **include** (or **require**) statement takes all the text/code/markup that exists in the specified file and copies it into the file that uses the include statement.
- **require** will produce a fatal error (E_COMPILE_ERROR) and stop the script
- **include** will only produce a warning (E_WARNING) and the script will continue

PHP Include Files (Example)

```
<!DOCTYPE html>

<html>

    <body>

        <h1>Welcome to my home page!</h1>

        <p>Some text.</p>

        <p>Some more text.</p>

        <?php include 'footer.php';?>

    </body>

</html>
```

PHP Cookies

- often used to identify a user
- 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
- With PHP, you can both create and retrieve cookie values.

```
setcookie(name, value, expire, path, domain, secure, httponly);
```

Only the name parameter is required. All other parameters are optional.

PHP Cookies

- **name** - The name of the cookie.
- **value** - The value of the cookie.
- **expires** - The time the cookie expires.
- **path** -The path on the server in which the cookie will be available on.
- **domain** - The (sub)domain that the cookie is available to.
- **secure** - Indicates that the cookie should only be transmitted over a secure HTTPS connection from the client. When set to true, the cookie will only be set if a secure connection exists.
- **httponly** - When true the cookie will be made accessible only through the HTTP protocol. This means that the cookie won't be accessible by scripting languages, such as JavaScript.

PHP Creating a Cookie

```
$cookie_name = "user";  
  
$cookie_value = "John Doe";  
  
setcookie($cookie_name, $cookie_value, time() + ( 86400 * 30), "/");  
  
setcookie("user", "John Doe", time() + ( 86400 * 30), "/");  
  
// 86400 = 1 day
```

Note: The `setcookie()` function must appear BEFORE the `<html>` tag.

PHP Retrieving a Cookie

```
if(!isset($_COOKIE[$cookie_name])) {  
    echo "Cookie named '" . $cookie_name . "' is not set!";  
}  
else {  
    echo "Cookie '" . $cookie_name . "' is set!<br>";  
    echo "Value is: " . $_COOKIE[$cookie_name];  
}
```


PHP Modifying a Cookie

```
$cookie_name = "user";  
  
$cookie_value = "Peter Griffin";  
  
setcookie($cookie_name, $cookie_value, time() + ( 86400 * 30), "/");  
  
// 86400 = 1 day
```

Note: The `setcookie()` function must appear BEFORE the `<html>` tag.

PHP Deleting a Cookie

```
// set the expiration date to one hour ago  
  
setcookie("user", "", time() - 3600);
```

Note: The `setcookie()` function must appear BEFORE the `<html>` tag.

PHP Sessions

- a way to store information (in variables) to be used across multiple pages
- Unlike a cookie, the information is not stored on the users computer.

PHP Starting Sessions/Setting Session Variables

- A session is started with the `session_start()` function.
- Session variables are set with the PHP global variable: `$_SESSION`.

PHP Starting Sessions

```
<?php

    // Start the session

    session_start();

?>

<!DOCTYPE html>

<html>

    <body>

        // rest of the program

    </body>

</html>
```

PHP Setting Session Variables

```
<!DOCTYPE html>

<html>

    <body>

        <?php

            // Set session variables

            $_SESSION["favcolor"] = "green";

            $_SESSION["favanimal"] = "cat";

            echo "Session variables are set.";

        ?>

    </body>

</html>
```

PHP Getting Session Variables

```
<?php

    session_start();

?>

<!DOCTYPE html>

<html>

    <body>

        <?php

            // Echo session variables that were set on previous page

            echo "Favorite color is " . $_SESSION["favcolor"] . "<br>";

            echo "Favorite animal is " . $_SESSION["favanimal"] . ".";

        ?>

    </body>

</html>
```

PHP Getting Session Variables

```
<?php

    session_start();

?>

<!DOCTYPE html>

<html>

    <body>

        <?php

            // Echo session variables that were set on previous page

            echo "Favorite color is " . $_SESSION["favcolor"] . "<br>";

            echo "Favorite animal is " . $_SESSION["favanimal"] . ".";

        ?>

    </body>

</html>
```


PHP Getting Session Variables

```
<?php
```

```
    session_start();
```

```
?>
```

```
// assuming the block of codes below is inside the <html> tag
```

```
<?php
```

```
    // to change a session variable, just overwrite it
```

```
    $_SESSION["favcolor"] = "yellow";
```

```
    echo "Favorite color is " . $_SESSION["favcolor"] . "<br>";
```

```
?>
```

PHP Destroy a Session

```
<?php
```

```
    session_start();
```

```
?>
```

```
// assuming the block of codes below is inside the <html> tag
```

```
<?php
```

```
    // remove all session variables
```

```
    session_unset();
```

```
    // destroy the session
```

```
    session_destroy();
```

```
?>
```

PHP Callback Functions

- functions which is passed as an argument into another function

```
<?php
```

```
function exclaim($str) {  
  
    return $str . "! ";  
  
}
```

```
function ask($str) {  
  
    return $str . "? ";  
  
}
```

```
function printFormatted($str, $format) {  
  
    // Calling the $format callback function  
  
    echo $format($str);  
  
}
```

PHP Callback Functions

- functions which is passed as an argument into another function

```
// Pass "exclaim" and "ask" as callback functions to printFormatted()
```

```
printFormatted("Hello world", "exclaim");
```

```
printFormatted("Hello world", "ask");
```

PHP And JSON

- JSON stands for JavaScript Object Notation
- a syntax for storing and exchanging data
- used as a data format by any programming language

PHP json_encode()

- used to encode a value to JSON format

```
<?php
```

```
$age = array("Peter"=>35, "Ben"=>37, "Joe"=>43);
```

```
echo json_encode($age);
```

```
$cars = array("Volvo", "BMW", "Toyota");
```

```
echo json_encode($cars);
```

```
?>
```

PHP json_decode()

- used to encode a value to JSON format

```
<?php
```

```
$jsonobj = '{"Peter":35,"Ben":37,"Joe":43}';
```

```
var_dump(json_decode($jsonobj));
```

```
echo $jsonobj->Ben;
```

```
?>
```

```
<?php
```

```
$jsonobj = '{"Peter":35,"Ben":37,"Joe":43}';
```

```
var_dump(json_decode($jsonobj, true));
```

```
echo $jsobobj['Ben'];
```

```
?>
```

PHP File Handling

- an important part of any web application
- You often need to open and process a file for different tasks

PHP File Handling

Be careful when manipulating files!

When you are manipulating files you must be very careful.

You can do a lot of damage if you do something wrong. Common errors are: editing the wrong file, filling a hard-drive with garbage data, and deleting the content of a file by accident.

PHP readfile() Function

- reads a file and writes it to the output buffer.

```
<?php
```

```
    echo readfile("webdictionary.txt");
```

```
?>
```

PHP Open File - fopen()

- gives you more options than the **readfile()** function

```
<?php
```

```
$myfile = fopen("webdictionary.txt", "r") or die("Unable to open file!");
```

```
echo fread($myfile, filesize("webdictionary.txt"));
```

```
fclose($myfile);
```

```
?>
```

PHP readfile() Function

Modes	Description
r	Open a file for read only. File pointer starts at the beginning of the file
w	Open a file for 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
a	Open a file for write only. The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x	Creates a new file for write only. Returns FALSE and an error if file already exists
r+	Open a file for read/write. File pointer starts at the beginning of the file
w+	Open a file for read/write. 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
a+	Open a file for read/write. The existing data in file is preserved. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
x+	Creates a new file for read/write. Returns FALSE and an error if file already exists

PHP Read Single Line - fgets()

- used to read a single line from a file

```
<?php
```

```
$myfile = fopen("webdictionary.txt", "r") or die("Unable to open file!");
```

```
echo fgets($myfile);
```

```
fclose($myfile);
```

```
?>
```

PHP Check End-Of-File - feof()

- checks if the "end-of-file" (EOF) has been reached
- useful for looping through data of unknown length.

```
<?php

$myfile = fopen("webdictionary.txt", "r") or die("Unable to open file!");

// Output one line until end-of-file

while(!feof($myfile)) {

    echo fgets($myfile) . "<br>";

}

fclose($myfile);

?>
```

PHP File Create/Write

- The **fwrite()** function is used to write to a file.

```
<?php
```

```
$myfile = fopen("newfile.txt", "w") or die("Unable to open file!");
```

```
$txt = "John Doe\n";
```

```
fwrite($myfile, $txt);
```

```
$txt = "Jane Doe\n";
```

```
fwrite($myfile, $txt);
```

```
fclose($myfile);
```

```
?>
```

PHP Form

```
<html>
```

```
<body>
```

```
<form action="welcome.php" method="POST">
```

```
    Name: <input type="text" name="name" /><br />
```

```
    E-mail: <input type="text" name="email" /><br />
```

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

```
</form>
```

```
</body>
```

```
</html>
```


PHP GET/POST

Welcome `<?php echo $_POST["name"]; ?>``
`

Your email address is: `<?php echo $_POST["email"]; ?>`

Welcome `<?php echo $_GET["name"]; ?>``
`

Your email address is: `<?php echo $_GET["email"]; ?>`

PHP Exceptions

- an object that describes an error or unexpected behaviour of a PHP script

```
<?php
```

```
function divide($dividend, $divisor) {  
  
    if($divisor == 0) {  
  
        throw new Exception("Division by zero");  
  
    }  
  
    return $dividend / $divisor;  
  
}
```

```
echo divide(5, 0);
```

```
?>
```

PHP Exceptions

```
<?php
```

```
function divide($dividend, $divisor) {  
  
    if($divisor == 0) {  
  
        throw new Exception("Division by zero");  
  
    }  
  
    return $dividend / $divisor;  
  
}  
  
try {  
  
    echo divide(5, 0);  
  
} catch(Exception $e) {  
  
    echo "Unable to divide.";  
  
}
```

```
?>
```

PHP OOP

```
<?php
```

```
function divide($dividend, $divisor) {  
  
    if($divisor == 0) {  
  
        throw new Exception("Division by zero");  
  
    }  
  
    return $dividend / $divisor;  
  
}  
  
try {  
  
    echo divide(5, 0);  
  
} catch(Exception $e) {  
  
    echo "Unable to divide.";  
  
}
```

```
?>
```

Thank You!

Contact us

www.groundgurus.com
09171100312 | 09771673162
Facebook: @groundgurus
Instagram: @ggurus2016