

Unit-4 Cookie

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. WITH PHP, YOU CAN BOTH **CREATE AND RETRIEVE COOKIE VALUES**.

Create Cookies With PHP

A cookie is created with the `setcookie()` function.

Syntax

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

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

Cookie is created at server side and saved to client browser. Each time when client sends request to the server, cookie is embedded with request. Such way, cookie can be received at the server side.

PHP Create/Retrieve a Cookie

```
<?php
$cookie_name = "user";//created cookie variables,hold values
$cookie_value = "John Doe";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");// 86400 =
1 day// create the cookie
?>

<html>
<body>
<?php
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_value];
}
?>
</body>
</html> o/p
```

Cookie named 'user' is not set!**Note:** You might have to reload the page to see the value of the cookie.

PHP transparently supports HTTP cookies.

There are three steps involved in identifying returning users –

1. Server script sends a set of cookies to the browser. For example name, age, or identification number etc.
2. Browser stores this information on local machine for future use.
3. When next time browser sends any request to web server then it sends those cookies information to the server and server uses that information to identify the user.
4. Cookies are usually set in an HTTP header (although JavaScript can also set a cookie directly on a browser).

```
<?php
```

```
    setcookie("name", "John Watkin", time()+3600, "/", "", 0);
```

```
    setcookie("age", "36", time()+3600, "/", "", 0);
```

```
?>
```

```
<html>
```

```
    <head>
```

```
        <title>Setting Cookies with PHP</title>
```

```
    </head>
```

```
    <body>
```

```
        <?php echo "Set Cookies"?>
```

```
    </body>
```

```
</html>
```

Accessing Cookies with PHP

PHP provides many ways to access cookies. Simplest way is to use either `$_COOKIE` or `$HTTP_COOKIE_VARS` variables.

```
<html>

<head>

<title>Accessing Cookies with PHP</title>

</head>

<body>

    <?php

        echo $_COOKIE["name"]. "<br />";

        /* is equivalent to */

        echo $HTTP_COOKIE_VARS["name"]. "<br />";

        echo $_COOKIE["age"]. "<br />";

        /* is equivalent to */

        echo $HTTP_COOKIE_VARS["age"]. "<br />";

    ?>

</body>

</html>
```

You can use isset() function to check if a cookie is set or not.

```
<html>

  <head>

    <title>Accessing Cookies with PHP</title>

  </head>

  <body>

    <?php
    if( isset($_COOKIE["name"]))

      echo "Welcome " . $_COOKIE["name"] . "<br />";

      else

      echo "Sorry... Not recognized" . "<br />";

    ?>

  </body>

</html>
```

When the user requests a page, the location is determined, and a cookie is defined based on that location. You don't have a cookie from the user yet. The page is generated and sent to the user, along with the new cookie. Now the cookie is set in his browser. It will get sent to the server along with the next request for another page - hence the need to reload the page before the cookie takes effect.

setcookie() and arrays

You may also set array cookies by using array notation in the cookie name. This has the effect of setting as many cookies as you have array elements, but when the cookie is received by your script, the values are all placed in an array with the cookie's name:

```
<?php
```

```
// set the cookies
```

```
setcookie("cookie[three]", "cookiethree");
```

```
setcookie("cookie[two]", "cookietwo");
```

```
setcookie("cookie[one]", "cookieone");
```

```
// after the page reloads, print them out
```

```
if (isset($_COOKIE['cookie'])) {
```

```
    foreach ($_COOKIE['cookie'] as $name => $value) {
```

```
        $name = htmlspecialchars($name);
```

```
        $value = htmlspecialchars($value);
```

```
        echo "$name : $value <br />\n";
```

```
    }}
```

?>The above example will output:

```
three : cookiethree
```

```
two : cookietwo
```

```
one : cookieone
```


Modify a Cookie Value

To modify a cookie, just set (again) the cookie using the `setcookie()` function.

```
<?php
$cookie_name = "user";
$cookie_value = "Alex Porter";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");
?>
<html>
<body>
```

```
<?php
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];
}
?>
</body> </html>
```

o/P Cookie 'user' is set!

Value is: Alex Porter**Note:** You might have to reload the page to see the new value of the cookie.

Delete a Cookie

To delete a cookie, use the `setcookie()` function with an expiration date in the **past**:

```
<!DOCTYPE html>
<?php
// set the expiration date to one hour ago
setcookie("user", "", time() - 3600);
?>
<html>
<body>

<?php
echo "Cookie 'user' is deleted.";
?>

</body>
</html>
```

O/P

Cookie 'user' is deleted.

CHECK IF COOKIES ARE ENABLED

First, try to create a test cookie with the setcookie() function, then count the \$_COOKIE array variable:

```
<?php  
setcookie("test_cookie", "test", time() + 3600, '/');
```

```
Setcookie()
```

```
?>
```

```
<html>
```

```
<body>
```

```
<?php
```

```
if(count($_COOKIE) > 0) {  
    echo "Cookies are enabled.";
```

```
} else {  
    echo "Cookies are disabled.";
```

```
}
```

```
?>
```

```
</body>
```

```
</html> o/P
```

Cookies are enabled.

Example of cookie in a web page

```
<?php
```

```
//cookie in a web page
```

```
?>
```

```
<form action="page2.php" method="post" style="border: 2px dotted blue; text-align:center; width: 400px;">
```

```
<p>
```

```
Username: <input name="username" type="text" value="<?php if(isset($_COOKIE["username"])) { echo $_COOKIE["username"]; } ?>" class="input-field">
```

```
</p>
```

```
<p>Password: <input name="password" type="password" value="<?php if(isset($_COOKIE["password"])) { echo $_COOKIE["password"]; } ?>" class="input-field">
```

```
</p>
```

```
<p><input type="checkbox" name="remember" /> do u want to Remember me
```

```
</p>
```

```
<p><input type="submit" value="Login"></span></p>
```

```
</form>
```

Page2.php file

```
<?php
if(!empty($_POST["remember"])) {
    setcookie ("username",$_POST["username"],time()+ 3600);
    setcookie ("password",$_POST["password"],time()+ 3600);
    echo "Cookies Set Successfully";
} else {
    setcookie("username","");
    setcookie("password","");
    echo "Cookies Not Set";
}
?>
<p><a href="page1.php"> Go to Login Page </a> </p>
```