



PHP Web Features



LibyanSpider

Web Features

PHP is a language created for the web. Its original purpose was to make it easier to make web pages and it remains heavily focused on server-side scripting. This chapter looks at some of the language features that make it one of the world's most popular server-side web programming languages.



Date and Time



Date and Time

Traditional

Timestamp use function like **date**() and **time**().

• Object-oriented
Use DateTime class

Timestamp

Timestamp uses an integer to represent date and time, this integer stores the number of seconds since midnight on 1/1/1970, this point in time is known as the Unix Epoch



Functions

- time(): int
 return the current time measured in the number of seconds since the Unix
 Epoch
- date(string \$format, ?int \$timestamp = null): string
 returns a string formatted according to the provided format string,
 utilizing the current timestamp if the second's parameter is not provided.
- strtotime(string \$datetime, ?int \$baseTimestamp = null): int|false
 Parse about any English textual datetime description into a Unix
 timestamp



Formatting Dates

- Date and time formatting codes are case-sensitive. For example, "y" is a two-digit year and "Y" is a four-digit year.
- Characters in the formatting string that are not recognized as formatting characters will be placed into the output unchanged. So, the string "Y-m-d" would include the hyphens between the year, month, and day when output—like this "2015-12-25".
- You can find a list of the PHP date and time formatting codes on the manual page,10 but here are the ones that are in the previous table:



Formatting Dates (2)

Code	Replaced with	Example
Υ	A full four-digit year	1999
М	Two-digit month, with leading zeroes	06
d	Day of the month, two digits with leading zeros	14
D	A three letter textual day	Mon, Tue, Wed
Н	24-hour format hour with leading zero	00, 09, 12, 23
i	Two-digit minute, with leading zeroes	05,15,25,45
S	Two-digit seconds, with leading zeroes	05,15,25,45
Т	Time zone abbreviation	EST, CET

https://php.net/manual/en/function.date.php



Examples

Here are examples of formatting dates in traditional ways using the date() function in PHP:

```
$timestamp = time();
$formattedDate = date("Y-m-d H:i:s", $timestamp);
echo $formattedDate; // 2022-06-15 14:30:00
$formattedDate = date("F j, Y, g:i a");
echo $formattedDate; // June 15, 2022, 2:30 pm
$formattedDate = date("m/d/y");
echo $formattedDate; // 06/15/22
$formattedDate = date("1");
echo $formattedDate; // Thursday
$formattedDate = date("jS F Y");
echo $formattedDate; // 15th June 2022
```



Examples (2)

ere are examples and explanatory content for using **strtotime**

```
$startDate = strtotime("2022-06-15");
$endDate = strtotime("+2 weeks", $startDate);
echo date("Y-m-d", $endDate); // 2022-06-18

$customDateTimeString = "2022-12-31 18:30:00";
$timestamp = strtotime($customDateTimeString);
echo date("1, F j, Y g:i A", $timestamp); // Thursday, December 31, 2022 6:30 PM

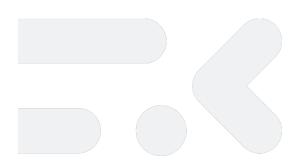
$complexDateString = "first day of next month 10:00";
$timestamp = strtotime($complexDateString);
echo date("1, F j, Y g:i A", $timestamp); // Friday, January 1, 2023 10:00 AM
```



DateTime class

The DateTime class in PHP provides an object-oriented way to work with dates and times. Here are examples

```
<?php
$dateTime = new DateTime();
echo $dateTime->format('Y-m-d H:i:s'); // 2010-11-12 13:14:15
```

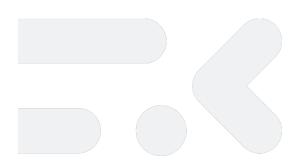




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Comparing Dates

The **DateTime::diff()** method allows you to compare the difference between two DateTime objects. It returns a DateInterval that contains the period of time between the two dates being represented.

Note that the DateTime class handles time zone and daylight savings time conversions for you.

```
<?php
$now = new DateTime();
$maharahDateTime = new DateTime('07 january');
$interval = $maharahDateTime->diff($now);
echo "Maharah bootcamp started from " . $interval->days;
```



Timezone

To set the default timezone for date and time functions in PHP, you can use the date_default_timezone_set function. Here's an example:

```
<?php
// Set the default timezone to New York
date_default_timezone_set('Africa/Tripoli');
$dateTime = new DateTime();
echo $dateTime->format('Y-m-d H:i:s');
```



Sessions and Cookies



Sessions

Session in PHP is a way of temporarily storing and making data accessible across all the website pages

Starting a Session

Initiates a new session or resumes the existing one.

```
<?php
session_destroy();</pre>
```

Ending a Session

Destroys all session data and is used to log out

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



Saving and Getting User Data

Saving User Data

\$_SESSION Superglobal: Associative array to store session data.

```
<?php
$_SESSION['username'] = 'john_doe';
$_SESSION['user_id'] = 123;</pre>
```

Retrieving Session Data

```
<?php
$username = $_SESSION['username'];
$userID = $_SESSION['user_id'];</pre>
```



Best Practices

- **Use HTTPS:** Encrypt data transmission with SSL/TLS.
- Regenerate Session ID: using session_regenerate_id() function
 The session_regenerate_id function in PHP is typically used to enhance the security of sessions by regenerating the session ID. This is useful in situations where you want to prevent session fixation attacks.

```
<?php
session_start();
// Perform login logic
// ...
// Regenerate the session ID after successful login
session_regenerate_id(true);</pre>
```



Cookies

Cookies in PHP are a way to store small pieces of information on the client's browser. Here are some examples of working with cookies:

Save Cookie

```
<?php
setcookie('username', 'john_doe', time() + 3600, '/');</pre>
```

Retrieving Cookie

```
<?php
// Retrieve the value of a cookie

$username = $_COOKIE['username'];
echo "Welcome back, $username!";</pre>
```



Cookies (2)

Deleting a Cookie

```
<?php
// Delete a cookie by setting its expiration time to the past
setcookie('username', '', time() - 3600, '/');</pre>
```

Cookie with Array Values:

```
<?php
// Set a cookie with an array value
$userInfo = array('username' => 'john_doe', 'email' => 'john@example.com');
setcookie('user_info', json_encode($userInfo), time() + 3600, '/');
```



Any Questions



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