

# PHP Sessions (Source: w3schools.com)

A PHP session variable is used to store information about, or change settings for a user session. Session variables hold information about one single user, and are available to all pages in one application.

## PHP Session Variables

When you are working with an application, you open it, do some changes and then you close it. This is much like a Session. The computer knows who you are. It knows when you start the application and when you end. But on the internet there is one problem: the web server does not know who you are and what you do because the HTTP address doesn't maintain state.

A PHP session solves this problem by allowing you to store user information on the server for later use (i.e. username, shopping items, etc). However, session information is temporary and will be deleted after the user has left the website. If you need a permanent storage you may want to store the data in a database.

Sessions work by creating a unique id (UID) for each visitor and store variables based on this UID. The UID is either stored in a cookie or is propagated in the URL.

---

## Starting a PHP Session

Before you can store user information in your PHP session, you must first start up the session.

**Note:** The `session_start()` function must appear BEFORE the `<html>` tag:

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

The code above will register the user's session with the server, allow you to start saving user information, and assign a UID for that user's session.

---

## Storing a Session Variable

The correct way to store and retrieve session variables is to use the PHP `$_SESSION` variable:

```
<?php
session_start();
// store session data
$_SESSION['views']=1;
?>
```

```
<html>
<body>

<?php
//retrieve session data
echo "Pageviews=". $_SESSION['views'];
?>

</body>
</html>
```

Output:

Pageviews=1

In the example below, we create a simple page-views counter. The `isset()` function checks if the "views" variable has already been set. If "views" has been set, we can increment our counter. If "views" doesn't exist, we create a "views" variable, and set it to 1:

```
<?php
session_start();

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

---

## Destroying a Session

If you wish to delete some session data, you can use the `unset()` or the `session_destroy()` function.

The `unset()` function is used to free the specified session variable:

```
<?php
unset($_SESSION['views']);
?>
```

You can also completely destroy the session by calling the `session_destroy()` function:

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

**Note:** `session_destroy()` will reset your session and you will lose all your stored session data.