



# Predefined Variables

## Predefined Variables

A **superglobal** is a predefined variable that is always accessible, regardless of scope. You can access the PHP superglobals through any function, class, or file.

PHP's superglobal variables are `$_SERVER`, `$GLOBALS`, `$_REQUEST`, `$_POST`, `$_GET`, `$_FILES`, `$_ENV`, `$_COOKIE`, `$_SESSION`.

### `$_SERVER`

`$_SERVER` is an [array](#) that includes information such as headers, paths, and script locations. The entries in this [array](#) are created by the web server.

`$_SERVER['SCRIPT_NAME']` returns the path of the current script:

```
<?php
echo $_SERVER['SCRIPT_NAME'];
//Outputs "/somefile.php"
?>
```

Try It Yourself

Our example was written in a file called **somefile.php**, which is located in the root of the web server.

### `$_SERVER`

`$_SERVER['HTTP_HOST']` returns the Host header from the current request.

```
<?php
echo $_SERVER['HTTP_HOST'];
//Outputs "localhost"
?>
```

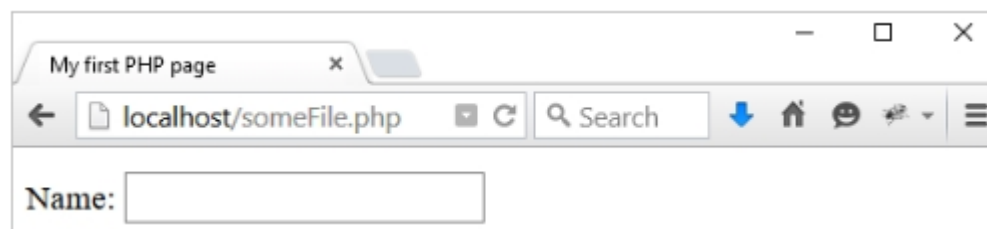
This method can be useful when you have a lot of images on your server and need to transfer the website to another host. Instead of changing the path for each image, you can do the following: Create a **config.php** file, that holds the path to your images:

```
<?php
$host = $_SERVER['HTTP_HOST'];
$image_path = $host.'/images/';
?>
```

Use the **config.php** file in your scripts:

```
<?php
require 'config.php';
echo '
  <p>Name: <input type="text" name="name" /></p>
  <p>Age: <input type="text" name="age" /></p>
  <p><input type="submit" name="submit" value="Submit" /></p>
</form>
```

Result:



A screenshot of a web browser window. The title bar says "My first PHP page". The address bar shows "localhost/someFile.php". The page content displays a form with the label "Name:" followed by a text input field.

Age:

The purpose of the PHP superglobals `$_GET` and `$_POST` is to collect data that has been entered into a form.

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## Forms

The **action** attribute specifies that when the form is submitted, the data is sent to a PHP file named **first.php**.

HTML form elements have **names**, which will be used when accessing the data with PHP.

The **method** attribute will be discussed in the next lesson. For now, we'll set the value to **"post"**.

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## Forms

Now, when we have an HTML form with the **action** attribute set to our PHP file, we can access the posted form data using the `$_POST` associative [array](#).

In the **first.php** file:

```
<html>
<body>

Welcome <?php echo $_POST["name"]; ?><br />
Your age: <?php echo $_POST["age"]; ?>

</body>
</html>
```

The `$_POST` superglobal [array](#) holds key/value pairs. In the pairs, keys are the **names** of the form controls and values are the **input data** entered by the user.

We used the `$_POST` [array](#), as the **method="post"** was specified in the form.  
To learn more about the form methods, press **Continue!**

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## POST

The two methods for submitting forms are **GET** and **POST**.

Information sent from a form via the **POST** method is invisible to others, since all names and/or values are embedded within the body of the HTTP request. Also, there are no limits on the amount of information to be sent.

Moreover, POST supports advanced functionality such as support for multi-part binary input while uploading files to the server.

However, it is not possible to bookmark the page, as the submitted values are not visible.

**POST** is the preferred method for sending form data.

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## GET

Information sent via a form using the **GET** method is visible to everyone (all variable names and values are displayed in the **URL**). **GET** also sets limits on the amount of information that can be sent - about 2000 characters.

However, because the variables are displayed in the URL, it is possible to bookmark the page, which can be useful in some situations.

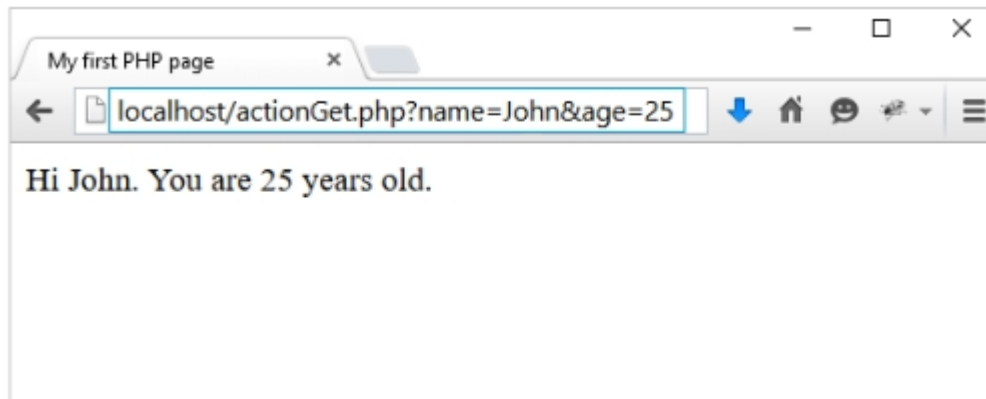
For example:

```
<form action="actionGet.php" method="get">
  Name: <input type="text" name="name" /><br /><br />
  Age: <input type="text" name="age" /><br /><br />
  <input type="submit" name="submit" value="Submit" />
</form>
```

actionGet.php

```
<?php
echo "Hi ".$_GET['name']." ";
echo "You are ".$_GET['age']." years old.";
?>
```

Now, the form is submitted to the **actionGet.php**, and you can see the submitted data in the **URL**:



GET should **NEVER** be used for sending passwords or other sensitive information!  
When using POST or GET, proper validation of form data through filtering and processing is vitally important to protect your form from hackers and exploits!

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## Sessions

Using a **session**, you can store information in variables, to be used across multiple pages. Information is not stored on the user's computer, as it is with **cookies**. By default, session variables last until the user closes the browser.

### Start a PHP Session

A session is started using the **session\_start()** function. Use the PHP global **\$\_SESSION** to set session variables.

```
<?php
// Start the session
session_start();
```

```
$_SESSION['color'] = "red";
$_SESSION['name'] = "John";
?>
```

Now, the **color** and **name** session variables are accessible on multiple pages, throughout the entire session.

The **session\_start()** function must be the very first thing in your document. Before any HTML tags.

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## Session Variables

Another page can be created that can access the session variables we set in the previous page:

```
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html>
<body>
<?php
echo "Your name is " . $_SESSION['name'];
// Outputs "Your name is John"
?>
</body>
</html>
```

Your session variables remain available in the **\$\_SESSION** superglobal until you close your session.  
All global session variables can be removed manually by using **session\_unset()**. You can also destroy the session with **session\_destroy()**.

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## Cookies

**Cookies** are often used to identify the user. A **cookie** is a small file that the server embeds on the user's computer. Each time the same computer requests a page through a browser, it will send the **cookie**, too. With PHP, you can both create and retrieve **cookie** values.

Create cookies using the **setcookie()** function:

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

**name:** Specifies the **cookie**'s name

**value:** Specifies the **cookie**'s value

**expire:** Specifies (in seconds) when the **cookie** is to expire. The value: `time()+86400*30`, will set the **cookie** to expire in 30 days. If this parameter is omitted or set to 0, the **cookie** will expire at the end of the session (when the browser closes). Default is 0.

**path:** Specifies the server path of the **cookie**. If set to `/`, the **cookie** will be available within the entire domain. If set to `/php/`, the **cookie** will only be available within the php directory and all sub-directories of php. The default value is the current directory in which the **cookie** is being set.

**domain:** Specifies the **cookie**'s domain name. To make the **cookie** available on all subdomains of `example.com`, set the domain to `"example.com"`.

**secure:** Specifies whether or not the **cookie** should only be transmitted over a secure, HTTPS connection. TRUE indicates that the **cookie** will only be set if a secure connection exists. Default is FALSE.

**httponly:** If set to TRUE, the [cookie](#) will be accessible only through the HTTP protocol (the [cookie](#) will not be accessible to scripting languages). Using `httponly` helps reduce identity theft using XSS attacks. Default is FALSE.

The **name** parameter is the only one that's required. All of the other parameters are optional.

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## Cookies

The following example creates a [cookie](#) named "user" with the value "John". The [cookie](#) will expire after 30 days, which is written as  $86,400 * 30$ , in which 86,400 seconds = one day. The '/' means that the [cookie](#) is available throughout the entire website.

We then retrieve the value of the [cookie](#) "user" (using the global variable `$_COOKIE`). We also use the `isset()` function to find out if the [cookie](#) is set:

```
<?php
$value = "John";
setcookie("user", $value, time() + (86400 * 30), '/');

if(isset($_COOKIE['user'])) {
    echo "Value is: ". $_COOKIE['user'];
}
//Outputs "Value is: John"
?>
```

The `setcookie()` function must appear BEFORE the `<html>` tag. The value of the [cookie](#) is automatically encoded when the [cookie](#) is sent, and is automatically decoded when it's received. Nevertheless, **NEVER** store sensitive information in cookies.

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# End.