

## PHP Syntax - Detailed Explanation

### Introduction

PHP (Hypertext Preprocessor) is a widely used open-source scripting language specially suited for web development. It is embedded in HTML and executed on the server-side.

### Basic PHP Syntax

A PHP script starts with ``<?php` and ends with `?>`. PHP code is executed on the server, and the output is returned to the browser as plain HTML.`

### Example of PHP Syntax

```
<?php
echo "Hello, World!"; // This will print Hello, World! to the browser
?>
```

### Embedding PHP in HTML

PHP can be embedded within an HTML file. Below is an example:

```
<!DOCTYPE html>
<html>
<head>
  <title>PHP in HTML</title>
</head>
<body>
  <h1>Welcome to My Website</h1>
  <?php
    echo "<p>This is generated using PHP!</p>";
  ?>
</body>
</html>
```