

PHP: HOT PAGES



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<http://hoboes.com/NetLife/PHP/>

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What is PHP?	1	The final code	23
Why use PHP?	1	fields.php	23
More information	2	color.php	24
The php extension	2	A Poll	25
Basic Code	3	Save data to a file	26
Dates and Times	3	Create the folder	26
Functions	4	Save the first ballot	27
Variables	4	Hide the form	27
Custom functions	4	Arrays	28
Comments	6	Accessing array data	30
Isset	6	Sorting	31
If	6	Keep your powder D-R-Y	32
Time	6	Don't trust anyone	33
Semicolons and line-endings	6	Visitor Sessions	34
Finding errors	7	Display the results when they've already voted	35
Line endings	7	Cookie errors	36
Avoiding errors	7	Sessions and security	37
The Final Code	8	Extra credit	38
Your Favorite Color	9	Templating and programming	38
Classes	9	Multiple questions	38
Simple form	10	Graphical results	42
Include file security	12	Poll colors	45
Braces vs. colons	12	SQLite	47
Cleaning your data	13	Create storage	47
Verify an answer	13	Create the file	47
Triple equals (===)	14	Create the table	47
Else	14	Tables	48
Different shades of White	15	Manage your data	49
HTML code injection	17	Queries	49
Email	18	Save records	49
Add a name	18	Display records	50
Single vs. double quotes	20	Other database servers	51
Notification	21	More Information	52
No untrusted recipients	21	Programming is Easy	52
Post and Get	22	GNU Free Documentation License	53

WHAT IS PHP?

PHP allows you to create *dynamic* web pages: web pages that do things differently depending on when or how someone visits your page, or that change depending on some other outside data. In this tutorial, I'm going to cover some of the very basics of using PHP to handle forms in your web pages. I'm going to assume that you know a little bit about HTML, but nothing about programming or PHP. If you aren't familiar with HTML, you'll want to go over the Web Writing Guide at http://hoboes.com/NetLife/Web_Writing/ first.

You'll need a text editor of some kind; many web page editors have them built in; Dreamweaver does, for example. As I write this, you cannot use the text editor built-in to SeaMonkey. It will throw out your PHP code when you switch between WYSIWYG editing and text editing. If you want a dedicated text editor, NoteTab on Windows comes recommended by people I trust, and Fraise or Smultron on Mac OS X are great choices.

WHY USE PHP?

If you need to embed dynamic text into otherwise unchanging web pages, you'll find PHP extremely useful. It was designed for this and it excels at it. You can easily create your web page as normal, with boilerplate text for the parts that need to be changed per visitor. Then, once you've designed the page, you can replace the boilerplate with PHP code to display the changing parts of the page.

You'll find that PHP is very portable: if it works on one server, it will usually work on any other server that has PHP installed. Most ISPs that provide server-side scripting provide PHP automatically.

PHP is also very useful for integrating web pages with databases. It has support for SQLite built in, and it often has support for MySQL, one of the most popular SQL database servers, pre-installed.

If you've already done some programming, the PHP scripting language resembles JavaScript, Java, and Perl. These languages all share a common ancestor, the C programming language. Of those, PHP is most different from JavaScript. PHP is a server-side scripting language. All of the "work" is done on the server. JavaScript usually runs on the client. It has little access to the information that the server has, and mediated access to information on the client. It can do lots of things on the client that PHP cannot. PHP, however, has full access to information that the server has. It only has information about the client that the client tells the server.

Because it is on the server, PHP cannot be modified by the client. While you cannot necessarily trust the information that the client gives to PHP, you can trust that your PHP is doing what you told it to do. Because PHP is on the server end, your PHP scripts can affect your server—such as by keeping an activity log or updating a database.

PHP can work with JavaScript to provide a combination of server-side and client-side functionality that will make your web pages more useful and your visitors happier.

What is PHP?

MORE INFORMATION

You can get more information about PHP, as well as the full PHP manual, at the PHP web site, <http://php.net/>. The PHP on-line manual is extremely useful: not only does it let you quickly look up any part of PHP, it also includes notes from people who use PHP about problems you might run into and how to fix them. When you're looking at the official instructions for a function you're having trouble with, do a search through the comments at the bottom of the page. Chances are, someone else has run into the same problem and has already posted a solution.

If you want more information about PHP in printed form, there is *Programming PHP* by Rasmus Lerdorf and Kevin Tatroe. Rasmus Lerdorf is one of the authors of the PHP language.

If you are interested in using PHP with the MySQL database there is also *Web Database Applications with PHP & MySQL* by Hugh E. Williams and David Lane, and *MySQL* by Paul DuBois. I've found the latter to be an extremely useful MySQL reference. You might also find my own MySQL tutorial at <http://hoboes.com/NetLife/MySQL/> useful.

THE PHP EXTENSION

This depends on how your server is set up, but your PHP web pages usually need to end in the extension “php”. This lets the server know that it needs to hand this page off to the “php” module before letting the visitor see the web page.

The choice of extension is completely up to whoever sets up your server. While it will usually be “php”, it can be anything. Contact your system administrators to be sure.

BASIC CODE

DATES AND TIMES

PHP code starts looking like HTML code and ends looking nothing like it. If you've looked at HTML code, you've seen things that look like "" or "<h2>". Here's a simple web page:

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <title>Time for PHP</title>
    <style>
      body {
        margin: 10em;
        padding: 2em;
        border: solid .2em green;
      }
      h1 {
        text-align: center;
      }
    </style>
  </head>
  <body>
    <h1>PHP Time</h1>
    <p>The current time is 9:34 AM.</p>
  </body>
</html>
```

PHP Time

The current time is 9:34 AM.

You can see this file in the resources archive as "time.php". Go ahead and grab it, and save it on your web site. Of course, even by the time you first view this page the current time is probably going to be wrong, and for your visitors it will be right only one minute out of every day. This is a great example of web content that would be better served with PHP. You will put your PHP code between "<?php" and "<?>". Here's how to display the current time:

```
<p>The current time is <?php echo date('h:i A')?>.</p>
```

If you save this file as "time.php" on your web site, and then view it, you will see the current time every time you reload your page.

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