PHP

PHP started out as a small open source project that evolved as more and more people found out how useful it was. Rasmus Lerdorf unleashed the first version of PHP way back in 1994.

* PHP is a recursive acronym for "PHP: Hypertext Preprocessor".
* PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.
* It is integrated with a number of popular databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.
* PHP is pleasingly zippy in its execution, especially when compiled as an Apache module on the Unix side. The MySQL server, once started, executes even very complex queries with huge result sets in record-setting time.
* PHP supports a large number of major protocols such as POP3, IMAP, and LDAP. PHP4 added support for Java and distributed object architectures (COM and CORBA), making n-tier development a possibility for the first time.
* PHP is forgiving: PHP language tries to be as forgiving as possible.
* PHP Syntax is C-Like.

<https://www.tutorialspoint.com/php/php_syntax_overview.htm>

**PHP: Hypertext Preprocessor(PHP)**

-originally known as Personal Home Page but it is now a recursive acronym and some they called it 'Perl Killer' of the server side scripting world.

-developed by Rasmus Lerdorf in 1994 who wrote the number if CGI (Common Gateway Interface) a binaries to maintain his personal homepage

- It is an open source server side scripting language that embedded in HTML

-A tool for making a dynamic content, interactive web pages or used for CGI scripts, it can also create, read, write and delete a files on the server, can add, delete and modify a data to the database and can encrypt data

-it is sufficient enough to run a largest social network and on different platforms and it is also suitable in most servers that we used today like apache, IIS and etc.

-PHP is fast and flexible especially it is much powerful when it comes to a most well know sites in the world.

-using PHP is that the same file can display a FORM and process the reply.

- PHP scripts can be invoked at a command prompt using the command-line interpreter for PHP.

-PHP framework is Object-Oriented Programming language (OOP) methods and tools for extending web app capabilities

-there are list of Built-in functions in PHP: array, calendar, Error Handling, MySQL, network, XML and more.

-PHP handles everything itself

-the only weakness of php is that it's generally hard to expand the language to add a non-standard functionalities that isn’t handled by its built-in functions.

**Advantages**

-when it comes to speed it's relatively fast since it uses much system resources

-it's easy to use especially for those who are familiar with C, it’s very easy for them to learn and create a website using PHP.

**Disadvantages**

-it is not suitable for huge application so it's hard to maintain since it is not that modular

-for security purposes since it's an open source everyone can view PHP's source code so it can easily hack it to identify bugs in the code