

# INTRODUCTION TO PHP

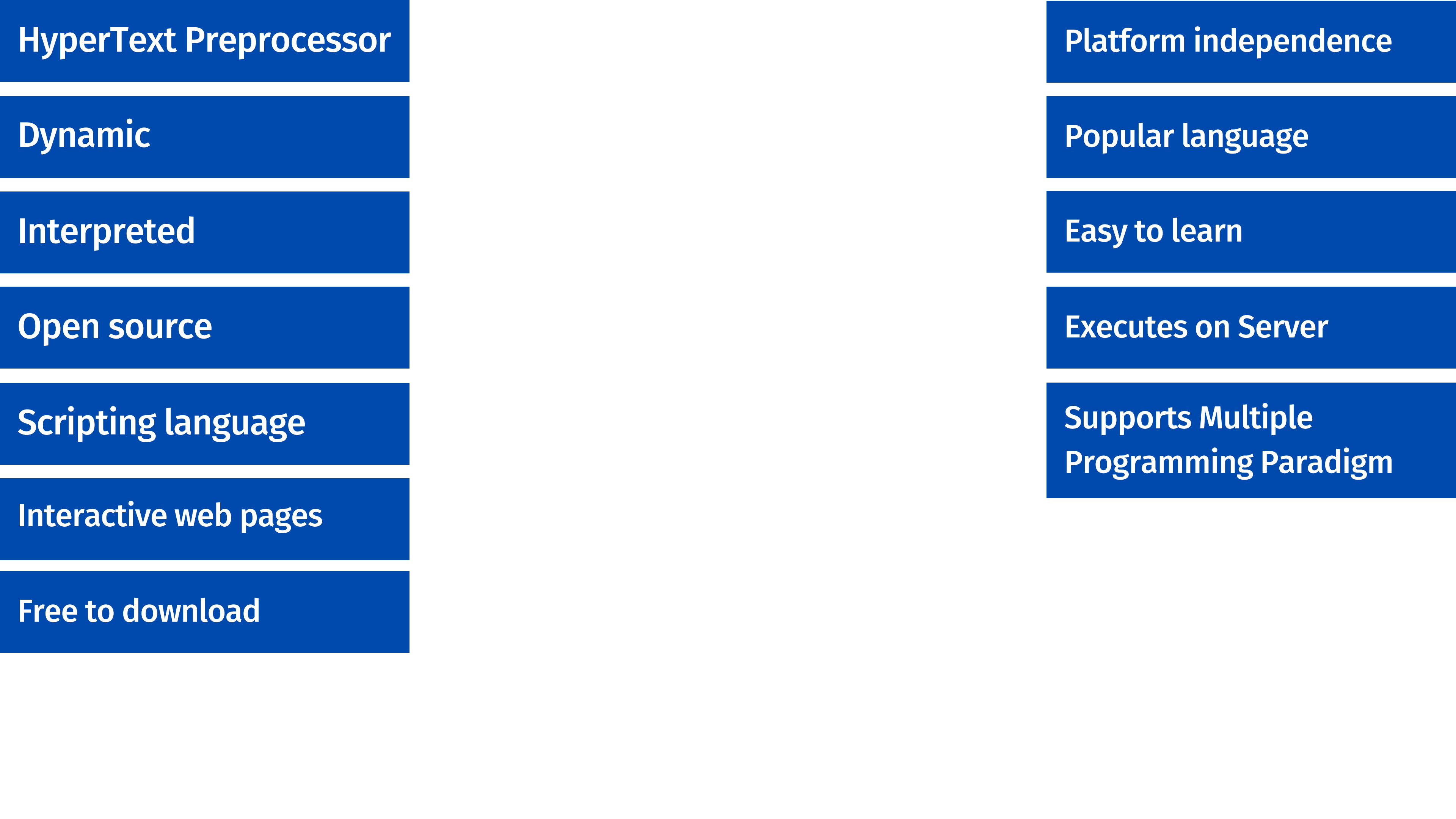


# Introduction

PHP is a popular general-purpose scripting language that is especially suited to web development. Fast, flexible and pragmatic( practical ), PHP powers everything from your blog to the most popular websites in the world.

# More Detailed Definition

PHP is an acronym for "Hypertext Preprocessor". It is a dynamic, interpreted, open source ,general-purpose scripting language for building interactive web pages, free to download . Platform independence, Popular language. It powers content management systems like WordPress .Easy to be beginner's first server side language. Its scripts are executed on the server and the result is returned to the browser as plain HTML . Supports multiple programming paradigms.



**HyperText Preprocessor**

**Dynamic**

**Interpreted**

**Open source**

**Scripting language**

**Interactive web pages**

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**Platform independence**

**Popular language**

**Easy to learn**

**Executes on Server**

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# HyperText Preprocessor

Dynamic

Interpreted

Open source

Scripting language

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The term "Hypertext" indicates the role of PHP in processing hypertext or HTML. PHP code is embedded directly into HTML documents, and when a PHP script is executed on the server, it generates dynamic content that is then embedded into the HTML returned to the client's web browser.



The "preprocessor" emphasizes that this processing of dynamic content happens before the HTML is sent to the browser. This process allows developers to create dynamic and interactive web pages by embedding PHP code within the HTML structure.

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Dynamic content is any digital or online content that changes based on data, user behaviour and preferences. This can be text, audio or video format content.



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An interpreter receives the source code and then reads it line by line, translating each line of code to machine code and executing it before moving on to the next line. If the interpreter encounters any errors during its process, it stops the process and shows an error message to the user.



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The term open source refers to any program whose source code is made available for use or modification as users or other developers see fit. Open source software is computer software that is developed as a public, open collaboration and made freely available to the public.



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A scripting language is a computer programming language that provides instructions, called scripts, for software in apps and websites. Scripts contain a series of commands that a software, application or scripting engine interprets one at a time within a runtime environment



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An interactive website is a website that communicates and allows for interaction with users.



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PHP can be used on all major operating systems, including Linux, many Unix variants (including HP-UX, Solaris and OpenBSD), Microsoft Windows, macOS, RISC OS, and probably others. PHP also has support for most of the web servers today. This includes Apache, IIS, and many others.



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PHP files can contain text, HTML, CSS, JavaScript, and PHP code. PHP code is executed on the server, and the result is returned to the browser as plain HTML. But its not only limited to output HTML. We can output images or PDF files.



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PHP supports imperative, functional, object-oriented, procedural, and reflective paradigms. PHP is a huge toolbox with lots of different tools that makes it possible to solve many problems in many different ways - not just one way.



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