PHP
Hypertext Preprocessor

What is PHP?

- PHP is an open-source, interpreted, and object-oriented scripting language that can be executed at the server-side.

- PHP is well suited for web development.

- PHP was created by **Rasmus Lerdorf in 1994** but appeared in the market in 1995.

- **PHP 8.2.0** is the latest version of PHP, which was released on **8th December 2022**.
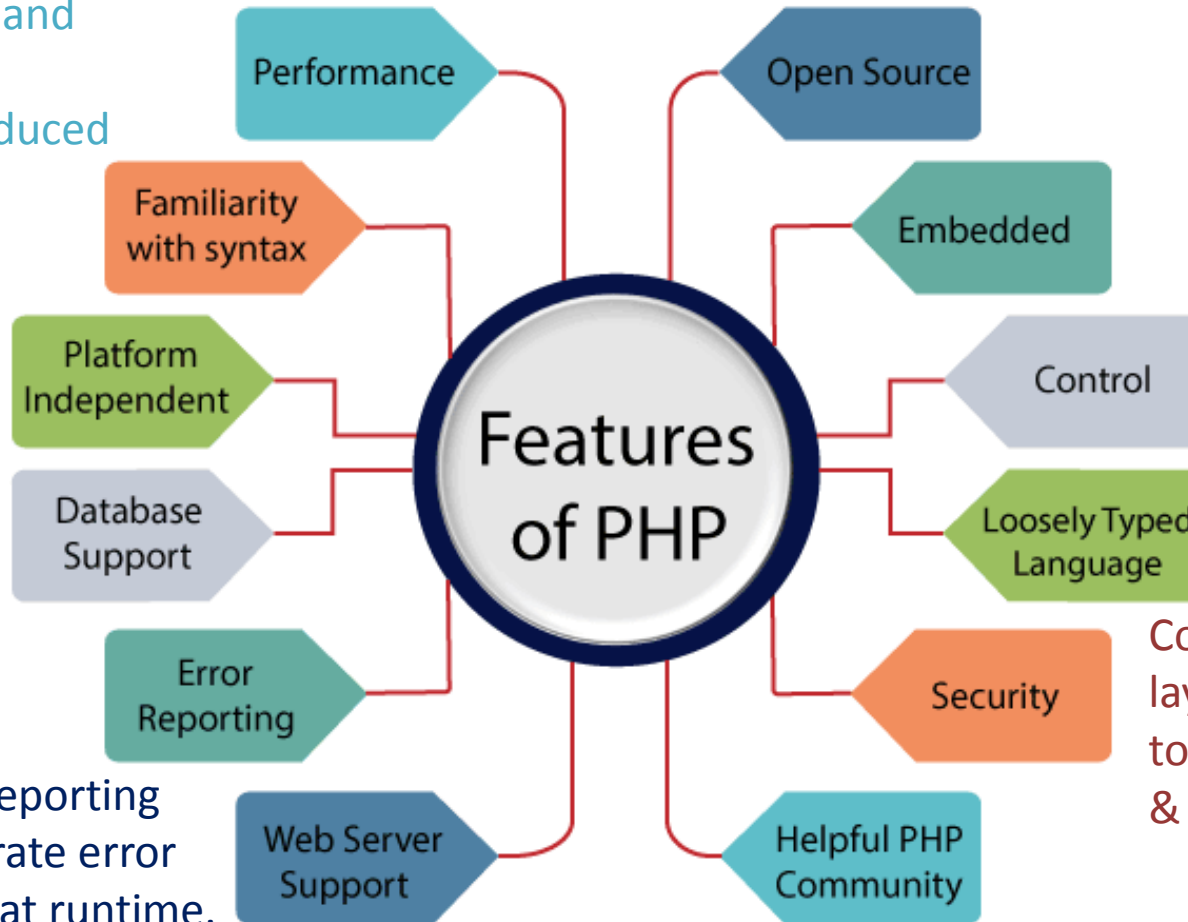
Why PHP is used?

- PHP is a server-side scripting language, which is used to design the dynamic web applications with MySQL database.
- It handles dynamic content, database as well as session tracking for the website.
- You can create sessions in PHP.
- It can access cookies variable and also set cookies.
- It helps to encrypt the data and apply validation.
- PHP supports several protocols such as HTTP, POP3, SNMP, LDAP, IMAP, and many more.
- Using PHP language, you can control the user to access some pages of your website.
- As PHP is easy to install and set up, this is the main reason why PHP is the best language to learn.

PHP Features

Why PHP is Faster?
PHP uses own memory, server workload and loading time is automatically reduced

Performance

Open Source

Familiarity with syntax

Embedded

Few lines of code to create website

Platform Independent

Control

MySQL, SQLite, MongoDB, ODBC, MariaDB …

Database Support

Features of PHP

Loosely Typed Language

Error Reporting

Security

Consist Multiple layers of security to prevent threads & malicious attacks

Predefined error reporting constants to generate error notice or warning at runtime. Eg. E_ERROR, E_WARNING

Web Server Support

Helpful PHP Community

PHP in Web Development

A PHP framework is **a platform to create PHP web applications**.
PHP frameworks provide code libraries for commonly used functions.

PHP framework **cuts down development time , because frameworks automate several tasks**.
With a framework, a PHP developer can automate common tasks like authentication, session management, caching and URL mapping.

Environment Setup

Apache, Mysql, PHP

- WAMP --- www root directory
- LAMP   --- www root directory
- XAMPP --- htdocs root directory
- SAMP
- MAMP --- htdocs root directory