

PHP Fundamentals



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About me

Maximiliano Firtman



MOBILE+WEB DEVELOPER

HTML since 1996

PHP since 1999, +150 web apps

AUTHOR

Authored 13 books, +70 courses



Maximiliano Firtman

[illegible]

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Learn PWA

A course that breaks down every aspect of modern progressive web app development.

Welcome to Learn Progressive Web Apps!

Welcome to Learn Progressive Web Apps!

This course covers the fundamentals of Progressive Web App development in easy-to-understand pieces. Over the following modules, you'll learn what a Progressive Web App is, how to create one or upgrade your existing web content, and how to add all the pieces for an offline, installable app. Use the menu pane to navigate the modules. (The menu is at left on desktop or behind the hamburger menu on mobile.)

You'll learn PWA fundamentals like the Web App Manifest, service workers, how to design with an app in mind, how to use other tools to test and debug your PWA. After these fundamentals, you'll learn about integration with the platform and operating system, how to enhance your PWA's installation and usage experience, and how to offer an offline experience.

About me

Maximiliano Firtman

Frontend *Masters*

Frontend Courses

Mobile App Courses

Backend Courses

What we will cover today

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What's PHP?

Why PHP?

PHP Syntax

Superglobal variables

OOP with PHP

Working with Data

Debugging and Advanced Techniques

Pre-requisites

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Programming basic experience

OOP concepts

Some HTML basic background

PHP interpreter

Browser

Code editor

Workshop Repo

[GitHub.com/firtman/php-fundamentals](https://github.com/firtman/php-fundamentals)



Questions?



Introduction

Definition

PHP



PHP is a widely-used open-source scripting language especially suited for web development and can be embedded into HTML.

Important



PHP is used by **76%** of all the websites whose server-side programming language we know.

PHP powers

- Facebook
- Microsoft
- Wikipedia
- Wordpress
- Drupal
- Joomla
- Magento
- Symfony
- Laravel
- Code Igniter

PHP can be used for

Scripting

Backend

Desktop Apps

Crazy ideas

<https://github.com/seanmorris/php-wasm>



PHP history

- Rasmus Lerdorf created a set of tools for his web pages in 1993
- Published them in 1995 as Personal Home Page Tools (PHP Tools)
- Open Source
- It's inspired by Perl, C, Java, JavaScript
- Language used by Mark Zuckerberg to create "The Facebook"

PHP history

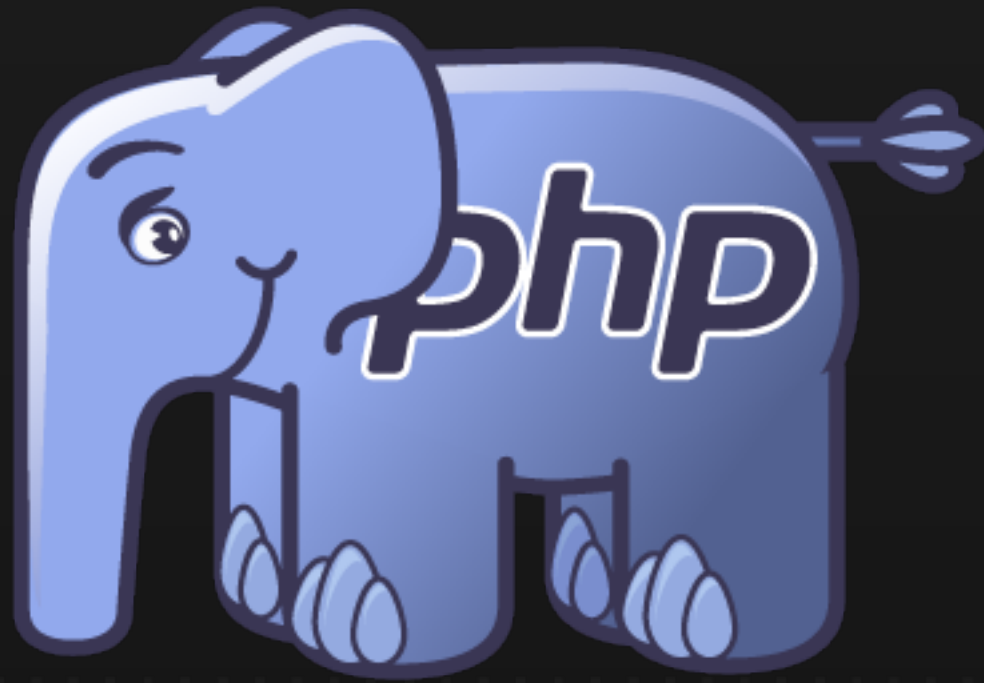
- 3.0: 1998
- 4.0: 2000
- 5.0: 2004
- 7.0: 2015
- 8.0: 2020

Minor versions exist in between

There is no formal language spec process

Zend company manages the standard engine

ElePHPant



- PHP Mascot
- There are ElePHPant collectors!
- It's actually inspired in **PHP** if you look closely.
- Official website: elephpant.com

Language Types

Developers write code in

Then ship

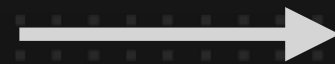
Interpreted Languages



Source Code



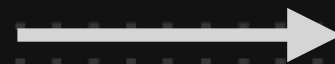
Intermediate Compiled
Languages



Bytecode



Compiled Languages



Machine Code



Important



PHP 8 has a Just in Time Compiler (JIT)

Idea



Meta has created an open-source virtual machine designed for executing programs originally in PHP that now moved to the Hack language.

Key features of PHP

- Very, very flexible language
- Cross-Platform
- Wide Database Support
- Open Source
- Multi paradigm
- Rich Standard Library
- Session Management Built-in
- Idea to App in a matter of minutes

Why to learn PHP Fundamentals now

- 2/3 of the Web is powered by PHP
- To maintain legacy web apps
- If you use Wordpress, Joomla, Drupal, you will need PHP to extend the basic behavior
- To use one of the most popular web frameworks:
 - Symfony
 - Laravel
 - Code Igniter
- You can also use it for new projects!

Tools

- VS Code with extensions
- PHP Storm
- NetBeans
- Eclipse PDT
- Zend Studio

Definition

LAMP Stack



A backend stack that became popular with PHP including the usage of:

Linux - Apache - MySQL (MariaDB) - PHP



Setup

What do you need

- Install PHP in your computer and your server
- Available for different operating systems and installation methods:
 - Manual download
 - Through package managers (such as brew)
 - Through Docker
 - LAMP Stack installers, such as XAMPP or MAMP

Warning



PHP is an scripting language, it's not web server. You will need a web server to host and execute your PHP-powered backend.

Servers

- Apache
- Nginx
- Litespeed
- Microsoft IIS

Most cloud-based providers offers you an option to execute PHP scripts or remote functions.



Syntax



Lab time



Recap

What we've covered

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Thanks!

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