Tishk International University
Faculty of Applied Science
Information Technology Department

Intro to the Course

Lecture 1

Fall 2025

Course Code: IT349

Grade 3

Islam Abdulazeez
islam.abdulaziz@tiu.edu.iq

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Web Programming

Overview

- ✓ Introduction to The Course
- ✓ Class Rules
- ✓ Course policy
- ✓ Syllabus
- ✓ Why PHP?

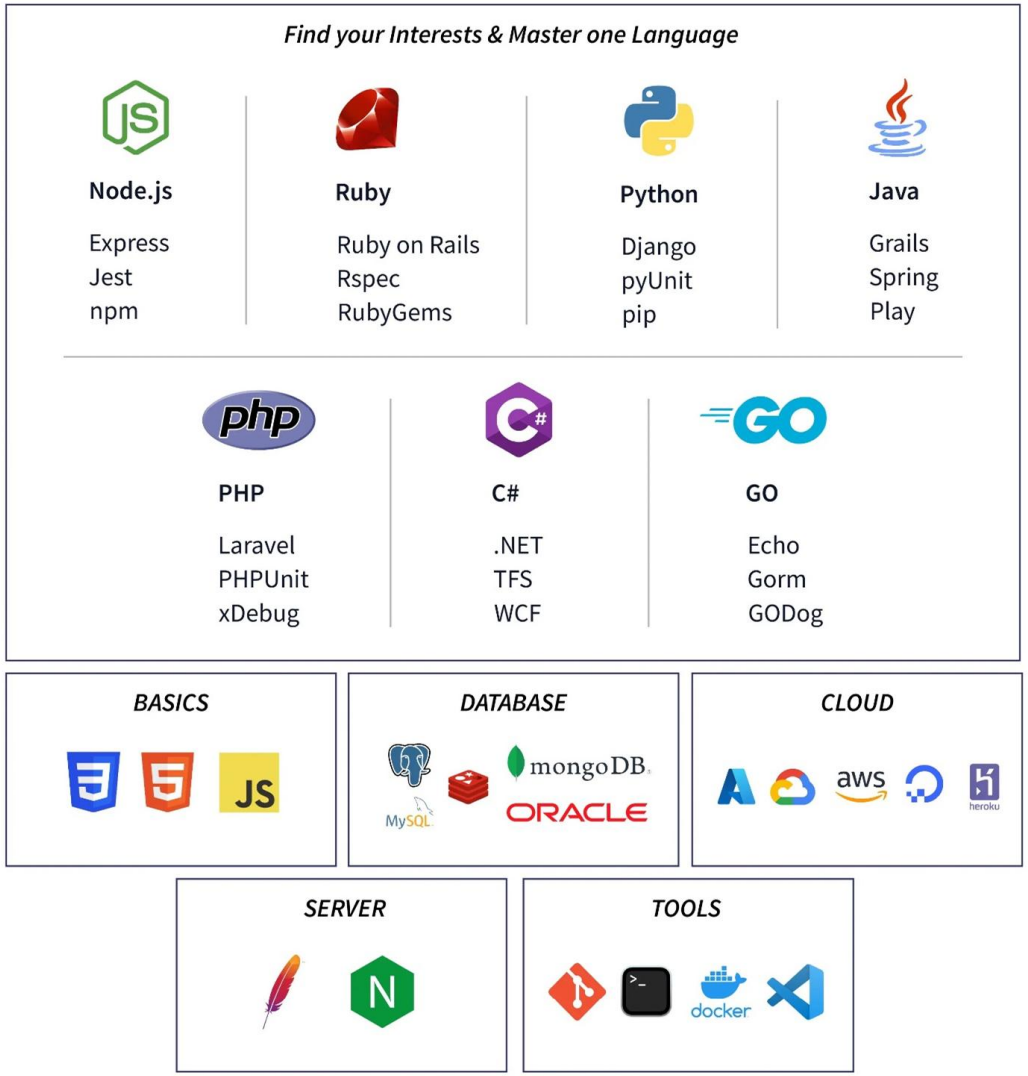
About This Course

What will you learn in this course?

- ✓ JavaScript and PHP.
- ✓ How to create a web application.
- ✓ How to **create**, **read**, **update** and **delete** data in database using PHP and MySQL.

About This Course

Note: You don't have to know all



About This Course

Web Design

HTML, Css and basics of Front end development.

Web Programming

Basics of PHP and Backend web development

Web Technologies

Basics of Laravel and other web technologies

About This Course

- **In order to learn and understand this course and pass it, you must know or have:**

✓ Good programming skills.

✓ Good knowledge of HTML and CSS (Web Design).

✓ Basics of Database.

About This Course

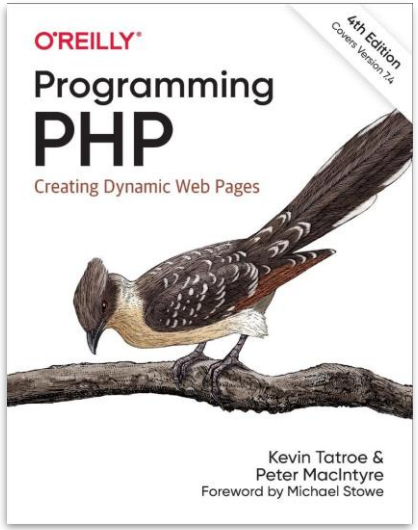
Main Textbook sources for this course

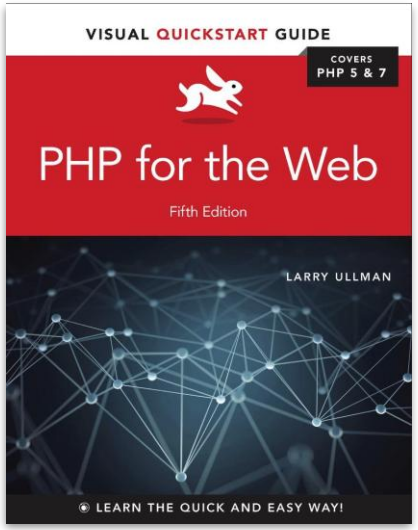
1. Programming PHP: creating dynamic web pages.

   by Kevin Tatroe, Peter MacIntyre. 2020

2. PHP for the web: visual quickstart guide

   5th Edition, by Larry Ullman. 2015





About This Course

Online sources for this course

1. PHP For Beginners by Jeffrey Way,

   Available on Laracasts for free.

2. Learn PHP The Right Way By Gio

   Available on Youtube for free.

About This Course

Class Structure

2 Hours Theoretical

in Class

2 Hours Practice

At Home

2 Hours Practice

in Lab

Class Rules

- Using cell phone is NOT allowed during the lecture.
- Exams will cover all class and lab material.
- Due dates for quizzes and projects will not be postponed.
- Office hours are a valuable resource for you to utilize.
- If you find any errors in my lecture notes or code, please bring it to my attention for a positive reward. 😊

Grading Criteria

Assessment Type	Quantity	Total Mark
Labs	12	10%
Quiz	5	15%
Midterm (Theoretical and Practical)	1	20%
Final Project	1	15%
Final (Theoretical and Practical)	1	40%

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Web Programming (Fall 2025)
Google Classroom

Course Policy

Attendance

I will fail if I don't have 80%

Can you help me please?

NO 😭

Course Policy

Class Time

DBL ?

Don’t Be Late 🙃

- Be on time for the lecture
- Remember -> class starts at 11:00 AM not 11:05 AM
- 11:06 AM, You will be marked absent

Extra Grading

Extra marks can be earned by:

- ✓ Presentations
- ✓ Volunteering

Syllabus

Types of Websites

- **Static**

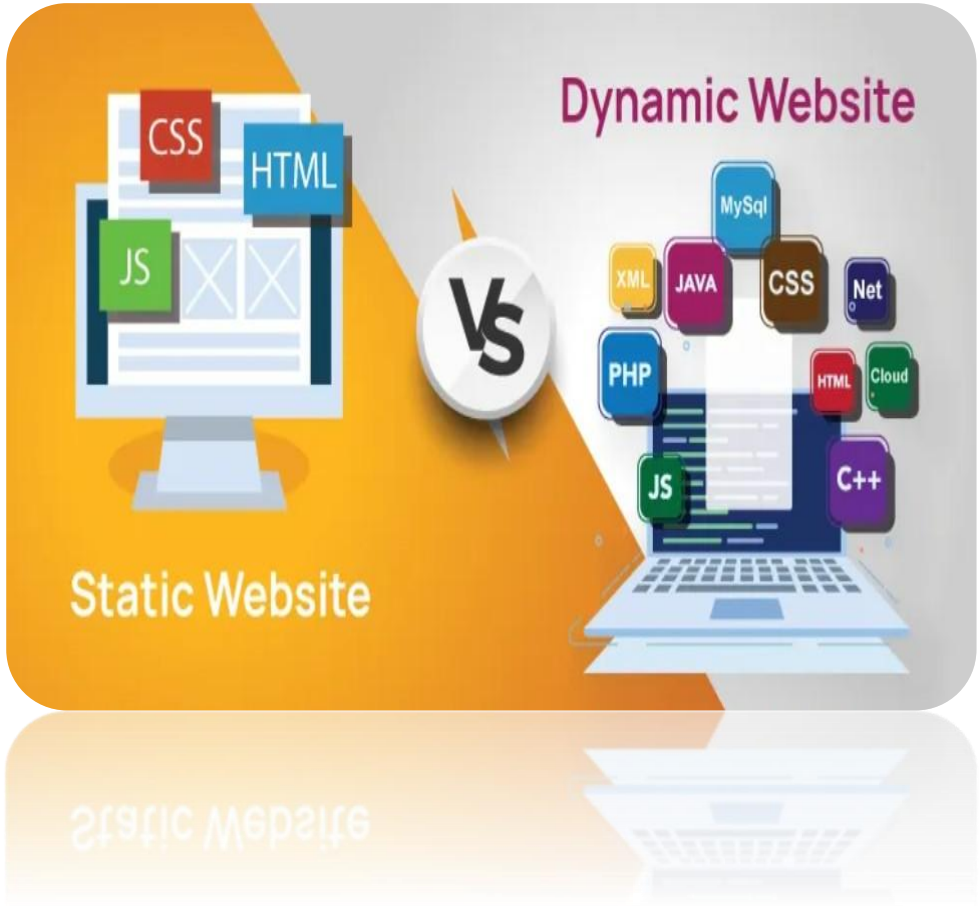
The content is fixed and doesn't change unless a developer updates it.

Example: personal portfolios or brochure sites.

- **Dynamic**

The content can change automatically based on user interactions or data from a database.

Example: social media, e-commerce sites.

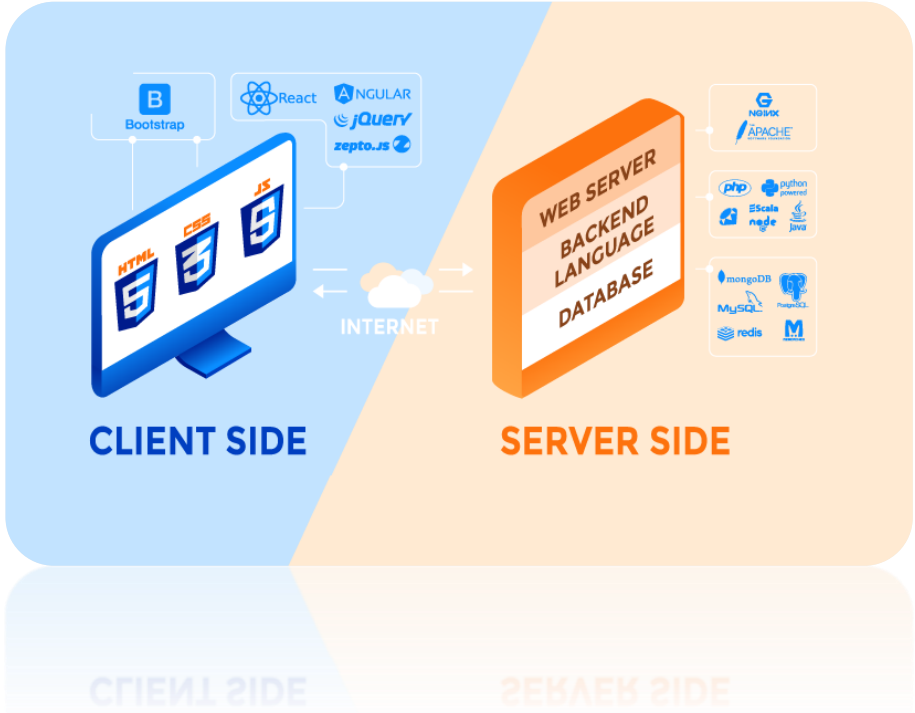


Web Programming

- Web programming, or web development, is the process of building dynamic and interactive websites and web applications.
- It involves coding to control how web pages behave and interact with users unlike static web design.
- Web programming allows websites to handle user inputs, connect to databases, and perform complex operations.

Key Aspects of Web Programming

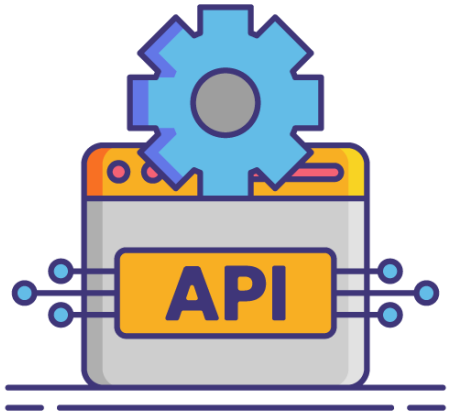
- **Client-Side Programming**
  - ✓ Code that runs in the user's web browser
  - ✓ HTML, CSS, and JavaScript
  - ✓ Interactive elements such as animations or forms.
- **Server-Side Programming**
  - ✓ Code that runs on a web server
  - ✓ Examples include PHP, Python, Node.js, etc.
  - ✓ Interacting with databases, and managing user sessions



Key Aspects of Web Programming

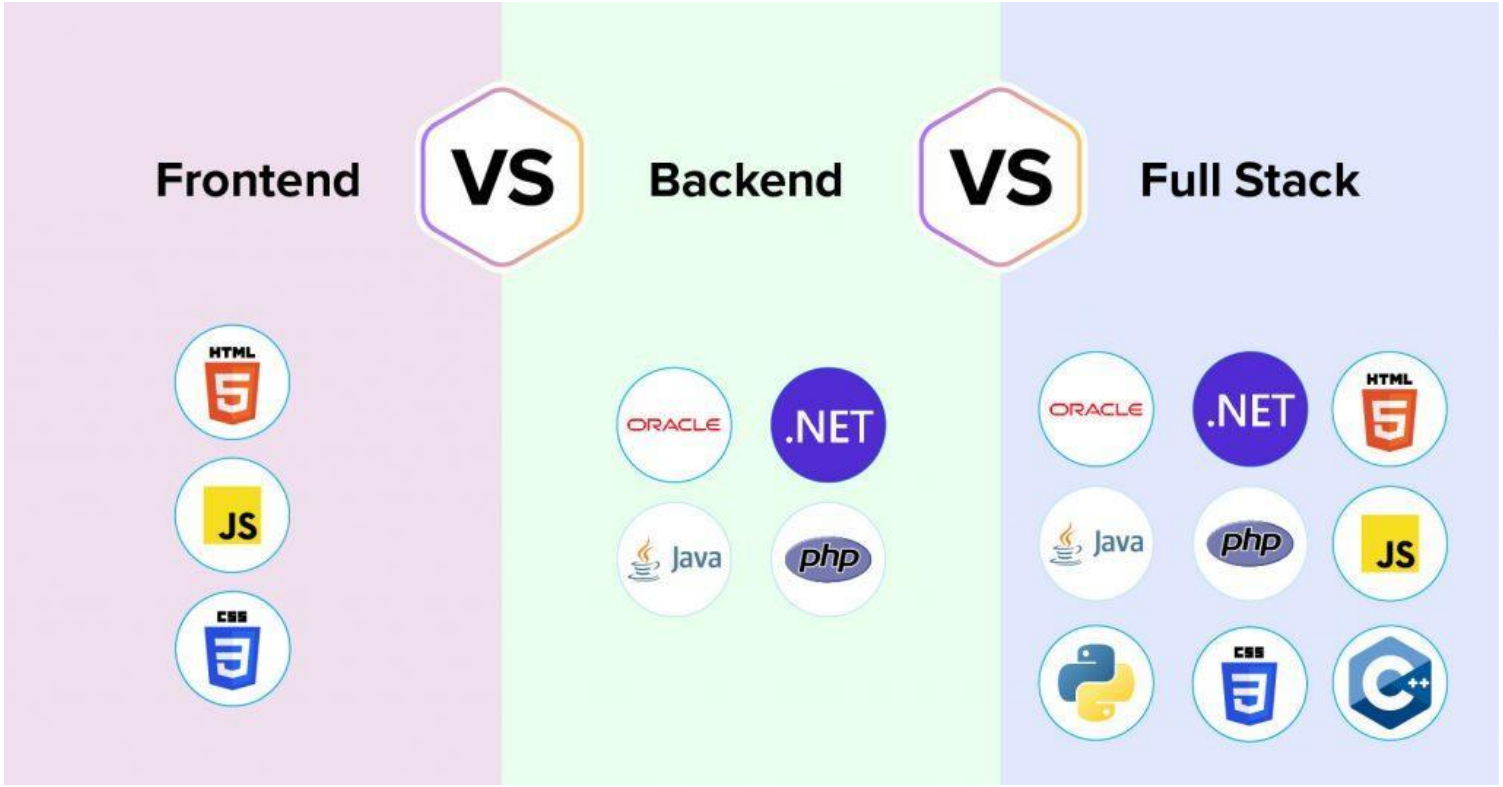
- **Databases**
  - ✓ Interacting with databases to store and retrieve data
  - ✓ MySQL, PostgreSQL, MongoDB, etc

- **APIs (Application Programming Interfaces)**
  - ✓ Allows different software applications to communicate with each other.



Main Areas of Web Development

- Front-End Development
- Back-End Development
- Full-Stack Development



Why is Web Programming Important?

- Universal Access: Websites and web applications can be accessed from any device with a web browser, making them highly versatile.

- Wide Reach: The internet provides businesses, individuals, and organizations with the opportunity to reach a global audience.

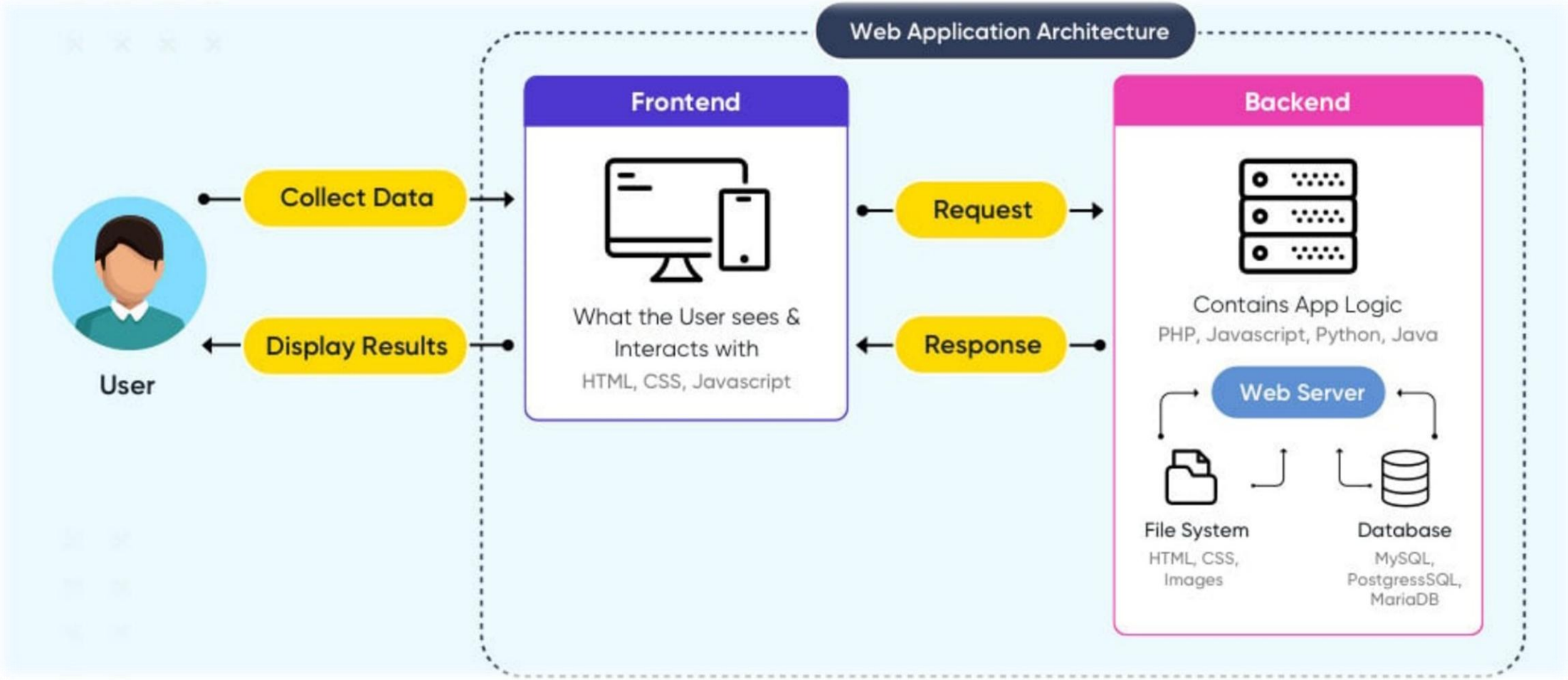
- As of 2024, there were over 5.18 billion active internet users, meaning more than 64% of the world's population was online.

Why is Web Programming Important?

- Business and E-commerce: Websites and web applications are central to modern businesses, facilitating e-commerce (over $5.5 trillion in global e-commerce sales in 2022), marketing, communication, and more.

- Mobile First: With 60% of global internet traffic coming from mobile devices, web programming that ensures mobile compatibility is critical.

Web Application Architecture



What is PHP?

- PHP (recursive acronym for PHP: Hypertext Preprocessor) is a **widely-used open source general-purpose scripting language** that is especially suited for **web development** and can be embedded into HTML.

Who Created PHP?

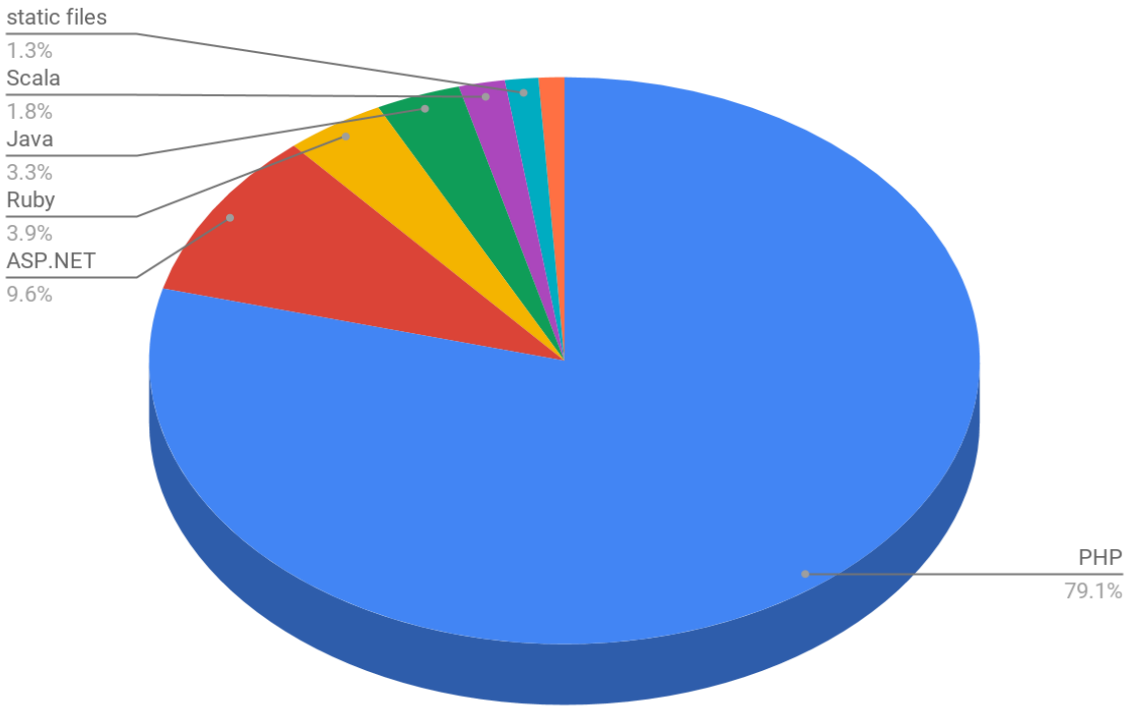
- It was originally created by Danish-Canadian programmer Rasmus Lerdorf in **1993** and released in **1995.**
- He created PHP to track the number of visitors to his personal website.

Why PHP?

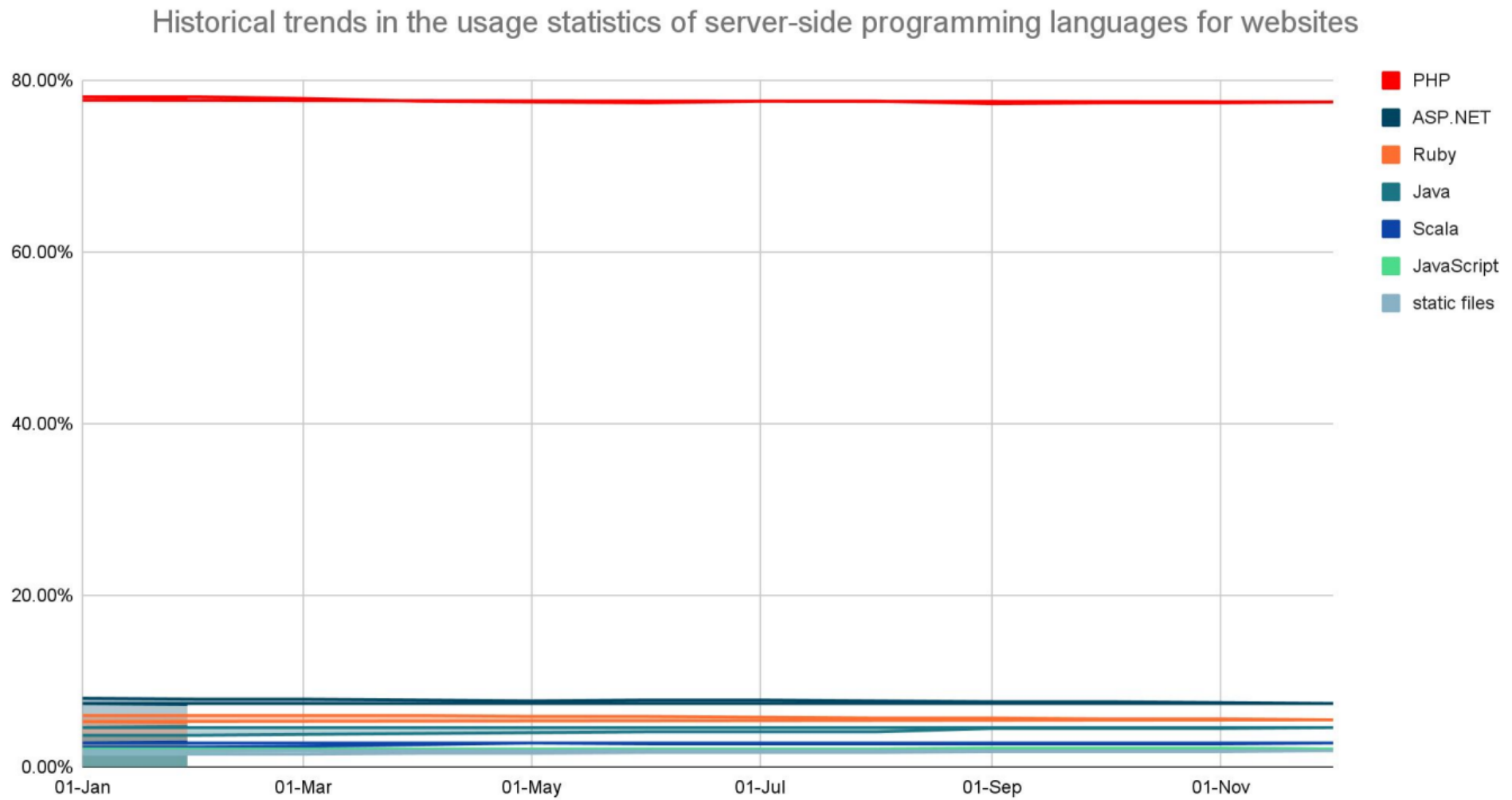
- It’s easy to learn and use
- It’s open source (and therefore free!)
- It’s versatile
- It enjoys community support
- It’s fast and secure
- It is well connected with databases
- It is tried and tested

PHP Usage Statistics

- 79.1% of all websites with a known server-side language use PHP.



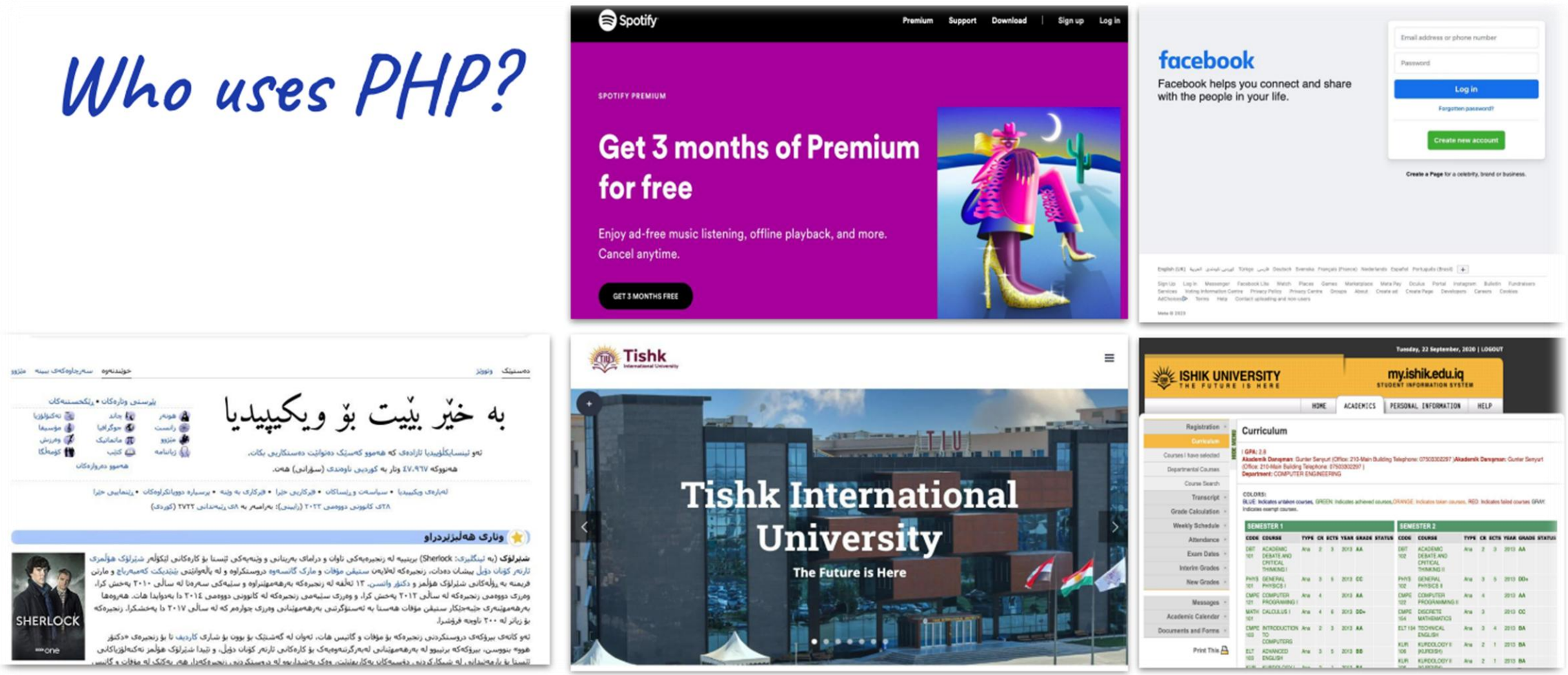
Historical Trends



Historical Yearly Trends

	2013 1 Jan	2014 1 Jan	2015 1 Jan	2016 1 Jan	2017 1 Jan	2018 1 Jan	2019 1 Jan	2020 1 Jan	2021 1 Jan	2022 1 Jan	2023 1 Jan	2024 1 Jan	2024 15 Oct
PHP	77.7%	80.3%	80.6%	80.0%	80.0%	80.2%	78.9%	78.9%	79.1%	78.1%	77.7%	76.7%	75.7%
Ruby	0.5%	0.6%	0.9%	1.1%	1.3%	1.6%	2.4%	3.0%	4.3%	6.0%	5.3%	5.6%	6.0%
ASP.NET	19.9%	17.8%	16.7%	15.6%	14.8%	13.5%	11.8%	10.6%	9.3%	8.0%	7.4%	6.6%	5.7%
Java	4.0%	2.6%	2.8%	3.1%	3.3%	3.4%	4.0%	3.7%	3.2%	3.7%	4.6%	4.7%	5.0%
JavaScript	<0.1%	0.1%	0.1%	0.2%	0.3%	0.4%	0.7%	0.8%	1.2%	1.8%	2.3%	3.1%	3.6%
Scala			0.2%	0.2%	0.3%	0.5%	1.2%	1.6%	1.8%	2.3%	2.8%	3.0%	3.5%
static files				1.5%	1.5%	1.6%	2.1%	1.8%	1.6%	1.5%	1.9%	1.8%	1.7%
Python	1.5%	1.7%	1.6%	1.7%	1.6%	1.3%	1.1%	1.3%	1.4%	1.4%	1.3%	1.4%	1.3%
ColdFusion	1.1%	0.8%	0.7%	0.7%	0.6%	0.6%	0.5%	0.5%	0.3%	0.3%	0.3%	0.3%	0.2%
Perl	0.8%	0.6%	0.5%	0.5%	0.4%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%
Erlang			0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Miva Script				0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%	<0.1%

Who Uses PHP?

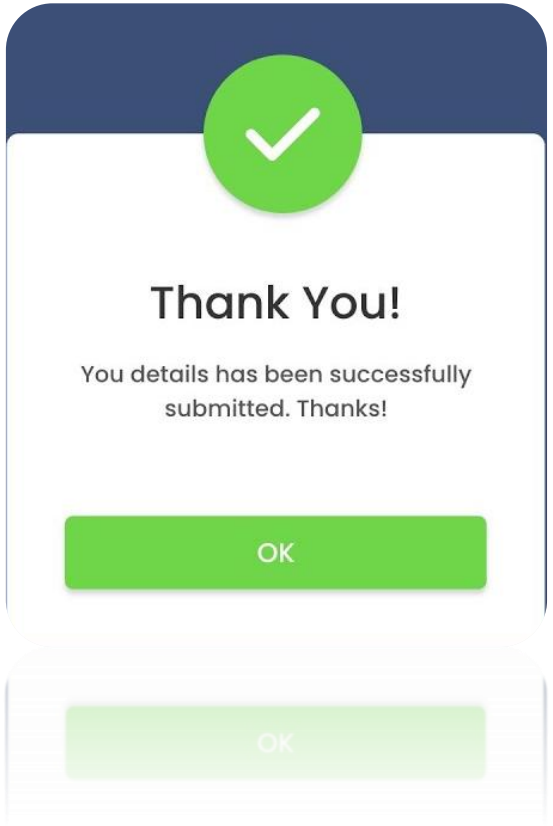

Who uses PHP?
Spotify
Premium
Support
Download
Sign up
Log in
SPOTIFY PREMIUM
Get 3 months of Premium for free
Enjoy ad-free music listening, offline playback, and more.
Cancel anytime.
GET 3 MONTHS FREE
facebook
Facebook helps you connect and share with the people in your life.
Email address or phone number
Password
Log in
Forgotten password?
Create new account
Create a Page for a celebrity, brand or business.
Tishk
Tishk International University
The Future is Here
ISHIK UNIVERSITY
THE FUTURE IS HERE
my.ishik.edu.iq
STUDENT INFORMATION SYSTEM
HOME
ACADEMICS
PERSONAL INFORMATION
HELP
Curriculum
به خێر بێیت بۆ ویکیپیدیا
SHERLOCK

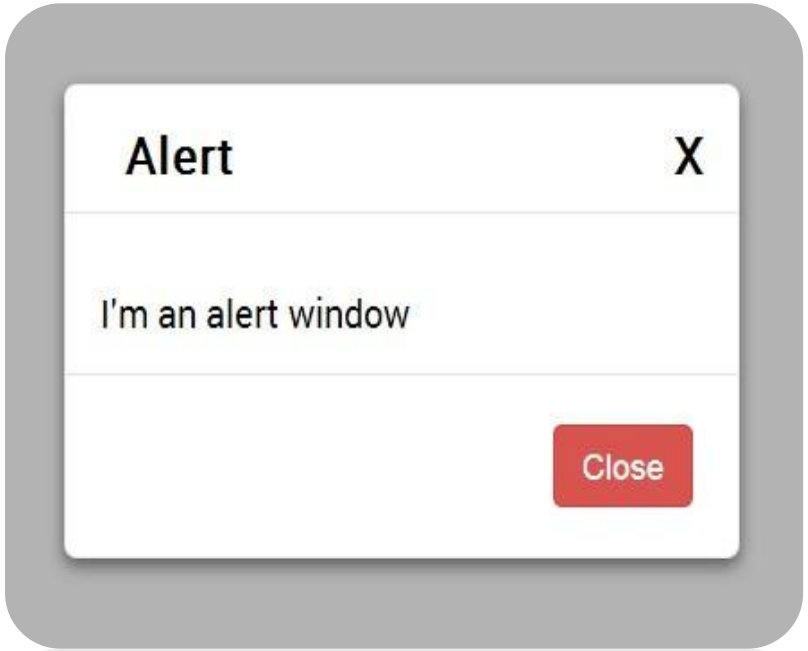
What is JavaScript?

- JavaScript is a programming language mainly used to make web pages interactive and dynamic.

- **HTML** defines the structure of web content.
- **CSS** styles the appearance of content.
- **JavaScript** adds interactivity to web pages.

JavaScript Examples





Who Uses JavaScript?

Activities and Next Lecture's Topic

Activities

- Join the Google Classroom.
- Gather basic information about JavaScript.

Next Lecture's Topic

- Intro to JavaScript

References

- Tatroe, K., & MacIntyre, P. (2020). Programming PHP: Creating dynamic web pages (4th ed.). O'Reilly Media.
- Ullman, L. (2016). PHP for the web: Visual QuickStart guide (5th ed.). Peachpit Press.

Thank You!