



Intro to the Course

Lecture 1

Fall 2025

Course Code: IT349

Grade 3

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Web Programming

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

About This Course

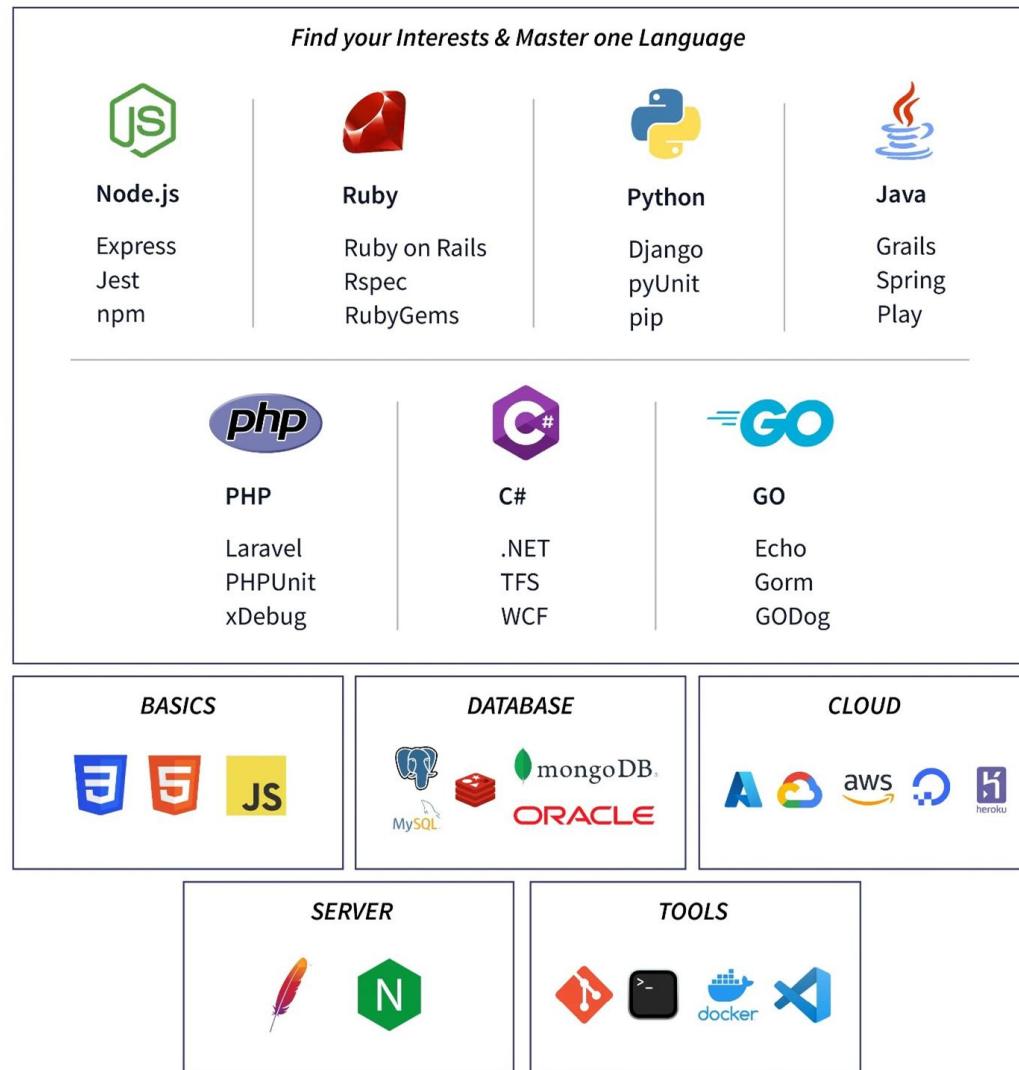
What will you learn in this course?

- ✓ 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.



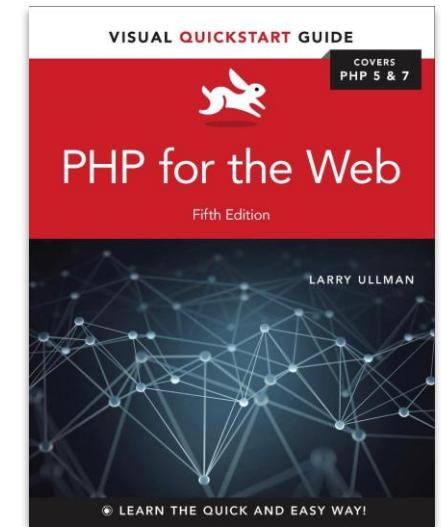
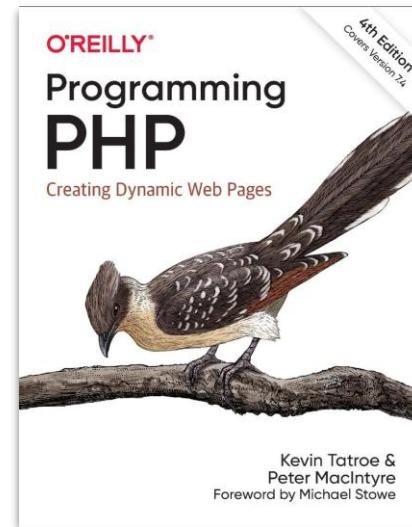
About This Course



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. 

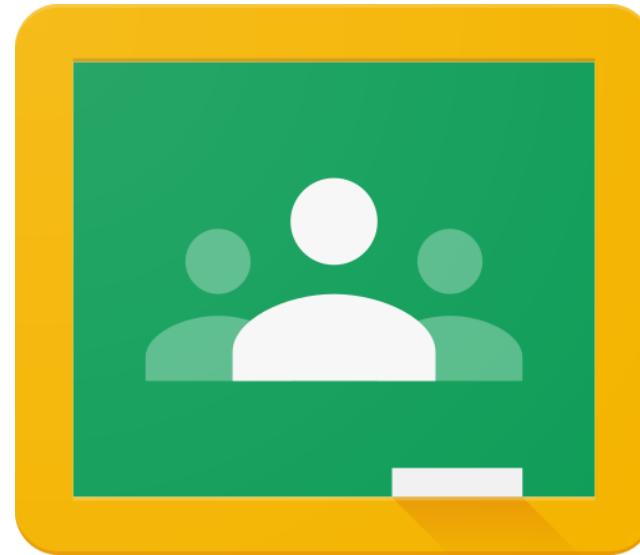
Grading Criteria



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%

5svv6yzv

Web Programming (Fall 2025)
Google Classroom



Attendance

I will fail if I don't have **80%**

Can you help me please?

NO A small, colorful emoji of a sad face with a frowny mouth and teary eyes.

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 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, 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.

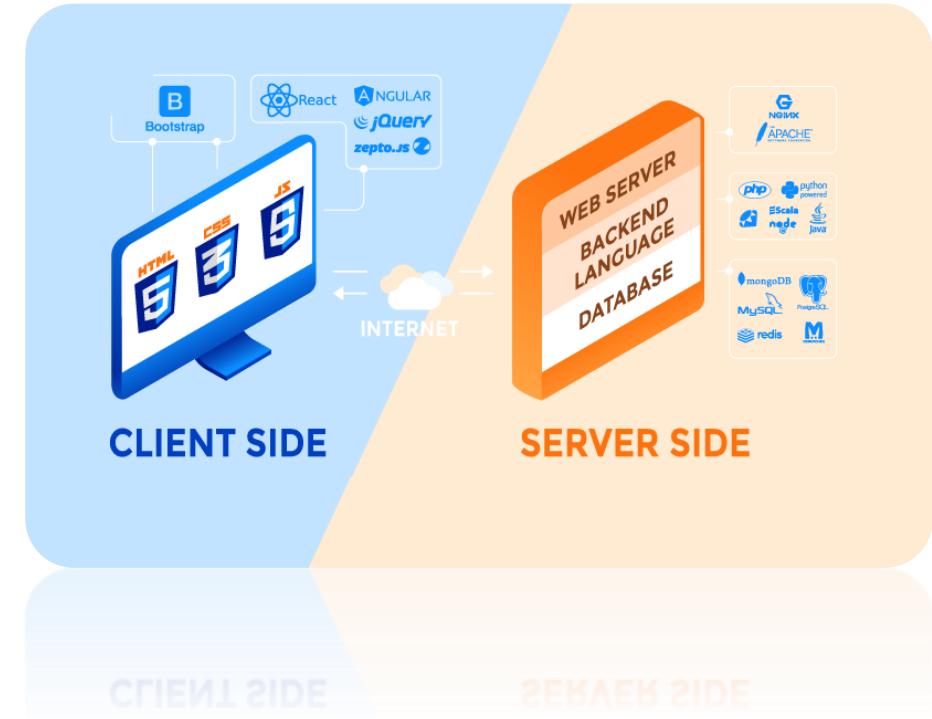
Key Aspects of Web Programming

- **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

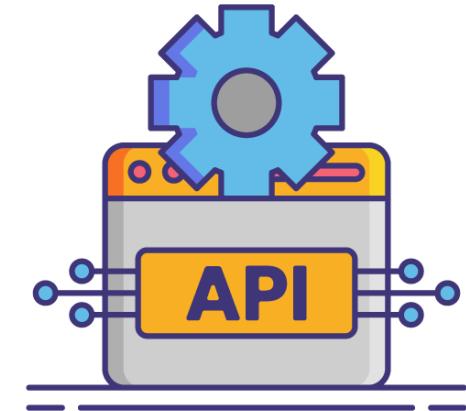
- **Databases**

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



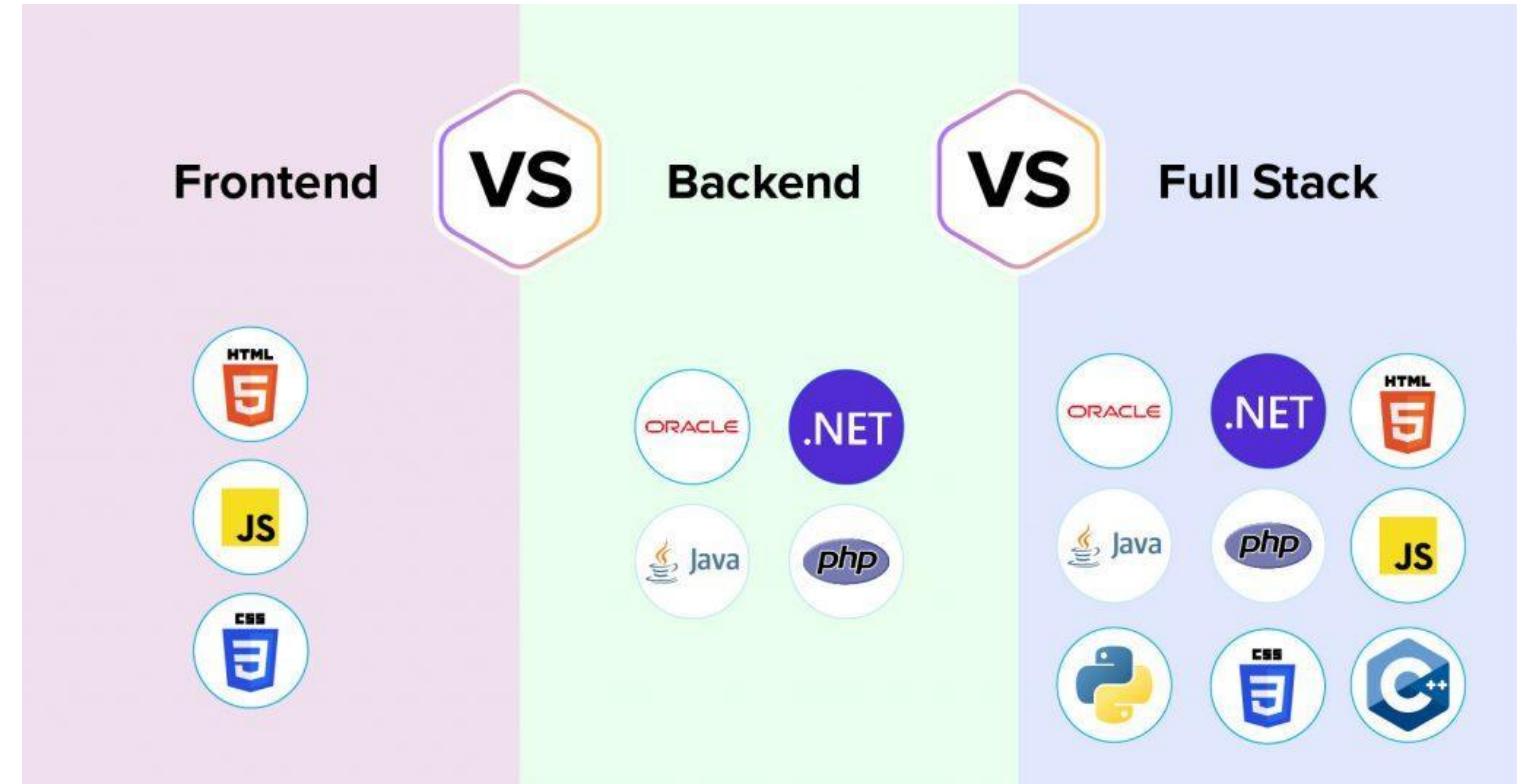
- **APIs (Application Programming Interfaces)**

- ✓ 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?

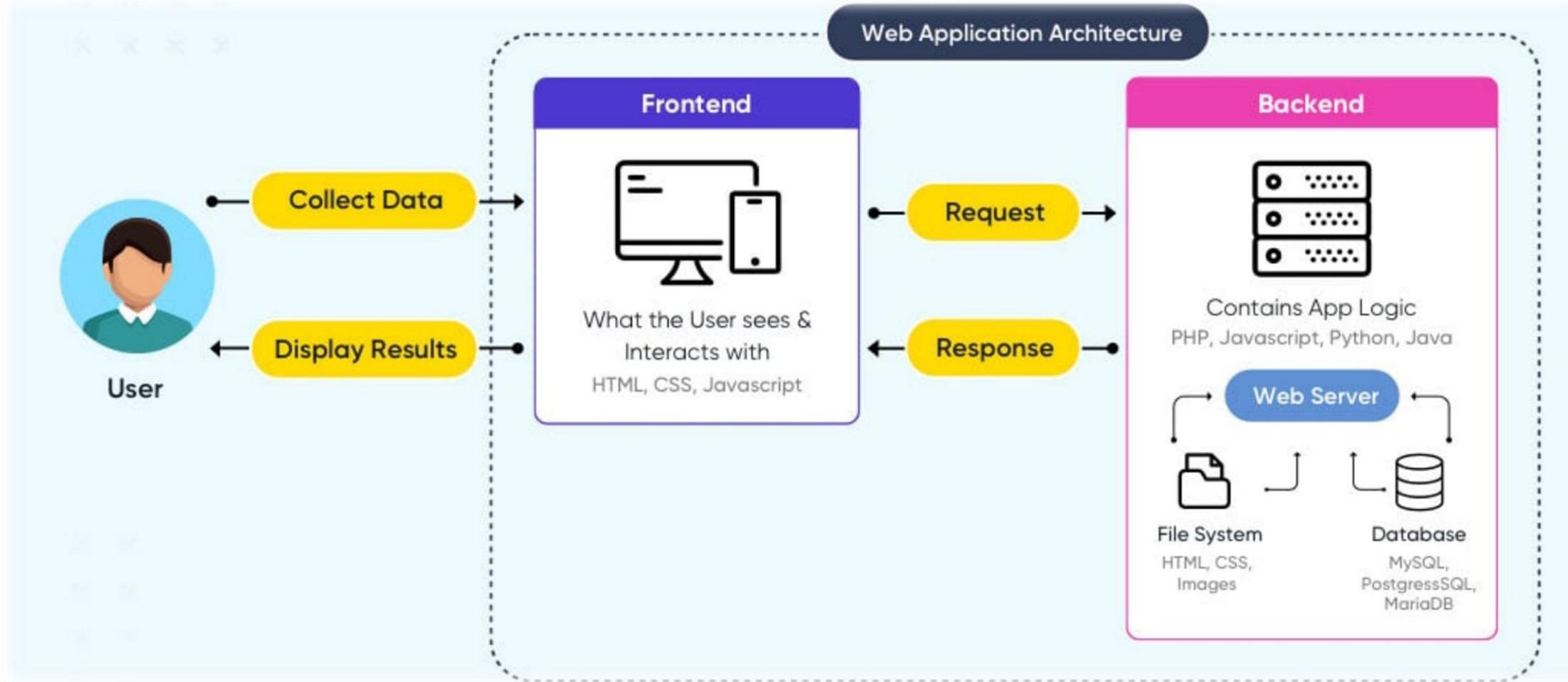


- **Universal Access:** Websites and web applications can be accessed from any device with a web browser, making them highly versatile.
- **Wide Reach:** The internet provides businesses, individuals, and organizations with the opportunity to reach a global audience.
- As of 2024, there were over 5.18 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.



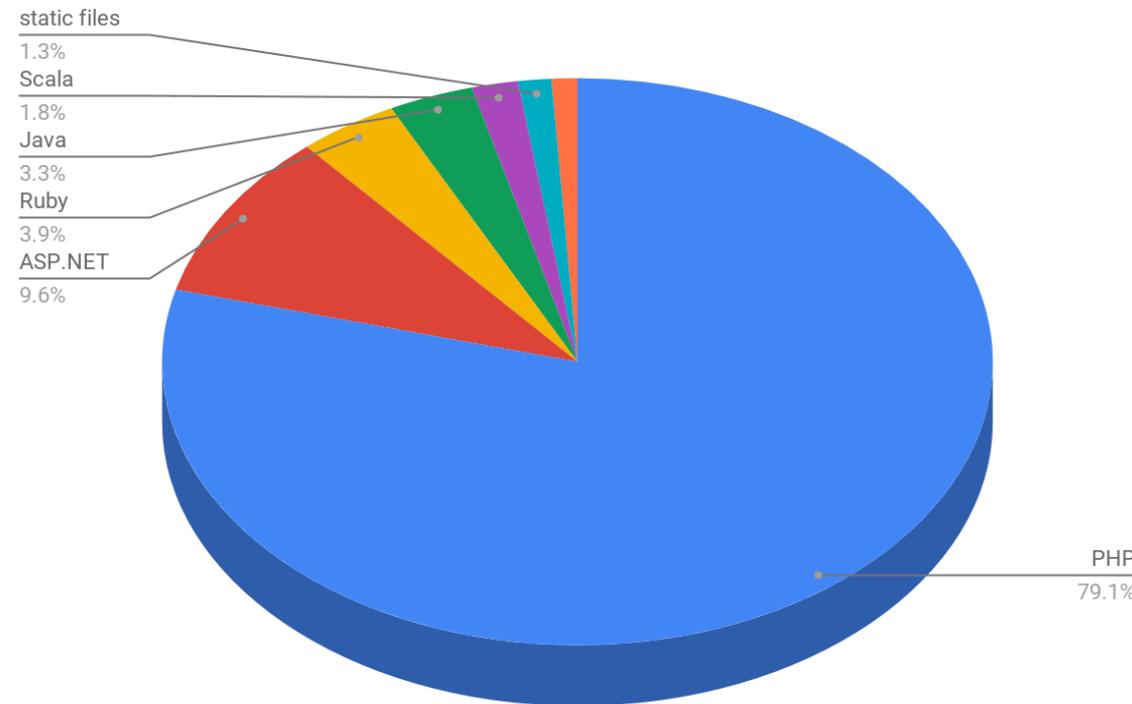
Why PHP?

- 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



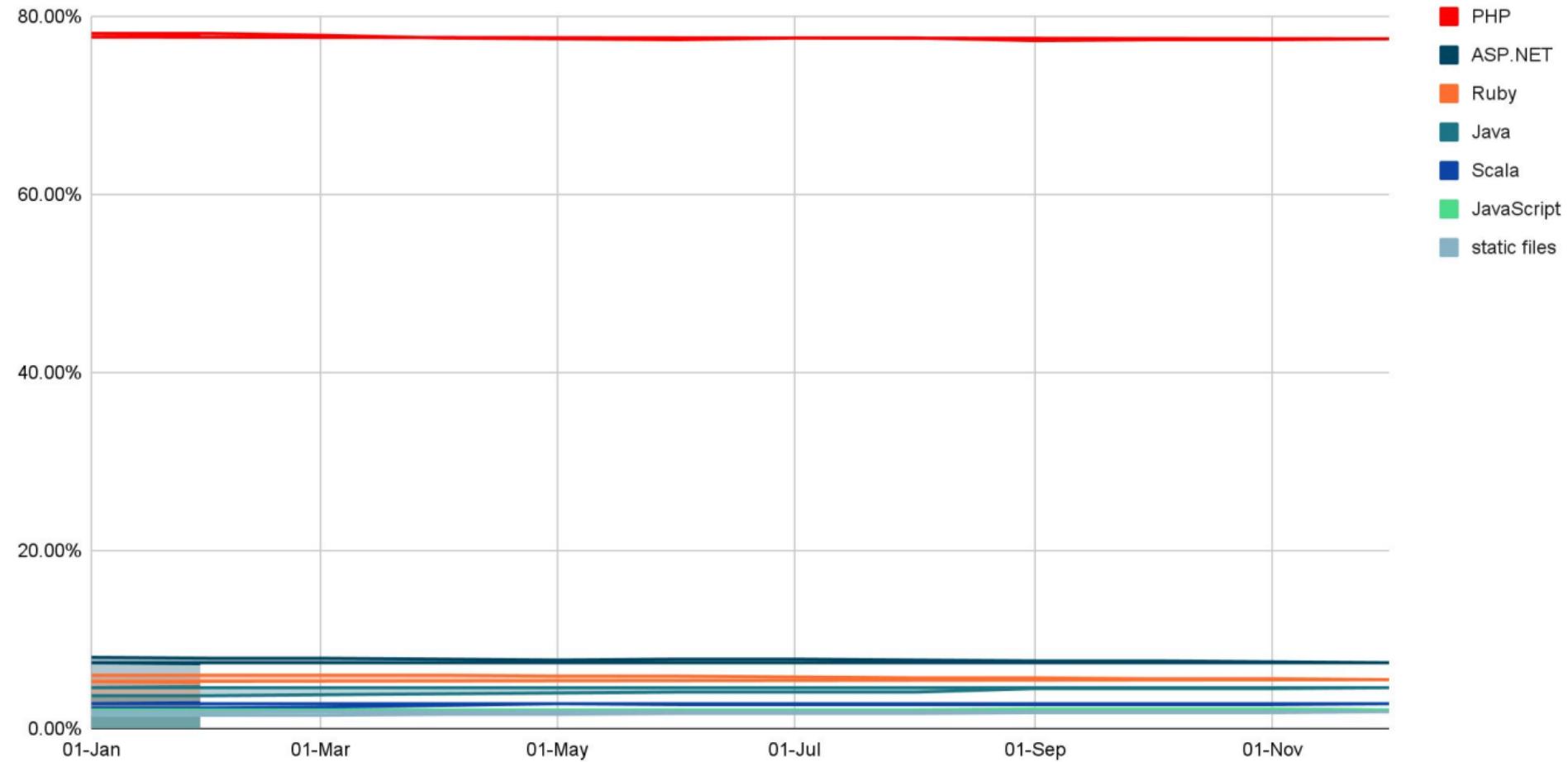
PHP Usage Statistics

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



Historical Trends

Historical trends in the usage statistics of server-side programming languages for websites



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%	
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?

The image shows the Spotify Premium landing page. At the top left is the Spotify logo. To the right are links for 'Premium', 'Support', 'Download', 'Sign up', and 'Log in'. Below the header, the text 'SPOTIFY PREMIUM' is displayed. The main visual features a cartoon character with a large pink bow on their head, wearing a pink and blue sequined dress, and high-heeled shoes, set against a background of a crescent moon and a cactus. Below the character, text reads 'Get 3 months of Premium for free'. A subtext below it says 'Enjoy ad-free music listening, offline playback, and more. Cancel anytime.' At the bottom left is a button labeled 'GET 3 MONTHS FREE'.

The image shows the header of the Tishk International University website. On the left is the university's logo, which consists of a stylized sunburst above the letters 'TIU'. To the right of the logo, the text 'Tishk International University' is written. On the far right of the header is a three-line menu icon. The main banner image in the background shows a modern university building with large glass windows and a red brick section. The text 'Tishk International University' is overlaid in large white letters, and below it, the tagline 'The Future is Here' is written in a smaller white box. The university's name is also visible in red letters on the building's facade. Several flags, including the Iraqi and Kurdish flags, are flying in front of the building. The website has a dark header with a light blue bar at the top.

The image shows the Facebook login page. It features the blue 'facebook' logo at the top left. Below it is a sub-headline: 'Facebook helps you connect and share with the people in your life.' To the right is a large white input field for an email address or phone number, followed by a smaller 'Password' field and a large blue 'Log in' button. Below these are links for 'Forgotten password?' and 'Create new account'. At the bottom of the page is a call-to-action: 'Create a Page' for a celebrity, brand or business. The footer contains links for various languages and services, including English (UK), Arabic, French, German, Dutch, Swedish, Portuguese (Brazil), Spanish, Portuguese (Brazil), and a link to 'Create a Page'. It also includes links for Sign Up, Log In, Messenger, Facebook Lite, Watch, Places, Games, Marketplace, Meta Pay, Doucile, Portal, Instagram, Developers, Careers, Bulletin, Fundraisers, Services, Voting Information Centre, Privacy Policy, Privacy Centre, Groups, About, Create Page, Create Page, Developers, Careers, Bulletin, Fundraisers, AdChoices, and Help.



ISHIK UNIVERSITY
THE FUTURE IS HERE

Tuesday, 22 September, 2020 | LOGOUT

my.ishik.edu.eg STUDENT INFORMATION SYSTEM

[HOME](#)
[ACADEMICS](#)
[PERSONAL INFORMATION](#)
[HELP](#)

Registration
Curriculum
Grade Sheet

Courses I have selected
Academic Details

Departmental Courses
Course Search

Transcript
Grade Calculation

Weekly Schedule
Attendance

Exams Dates
Interim Grades

New Grades
Messages

Academic Calendar
Documents and Forms

Print This

Curriculum

GPA: 3.8

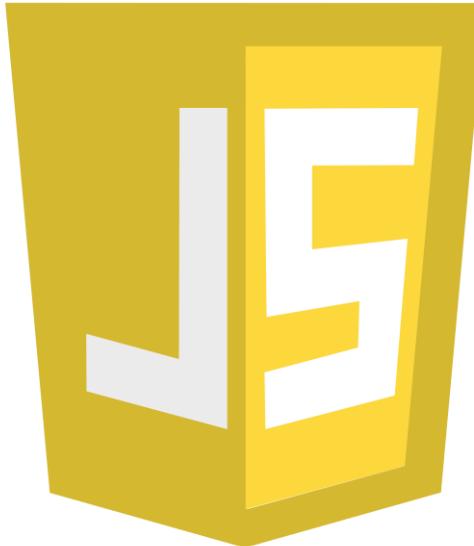
Academic Details: Günter Semayır (Office: 210-Mail Building Telephone: 0750320297) | **Academic Details:** Günter Semayır (Office: 210-Mail Building Telephone: 0750320297) | **Department:** COMPUTER ENGINEERING

COLORS:
BLUE: Indicates taken courses, GREEN: Indicates achieved courses, ORANGE: Indicates taken courses, RED: Indicates failed courses, GRAY: Indicates exempt courses.

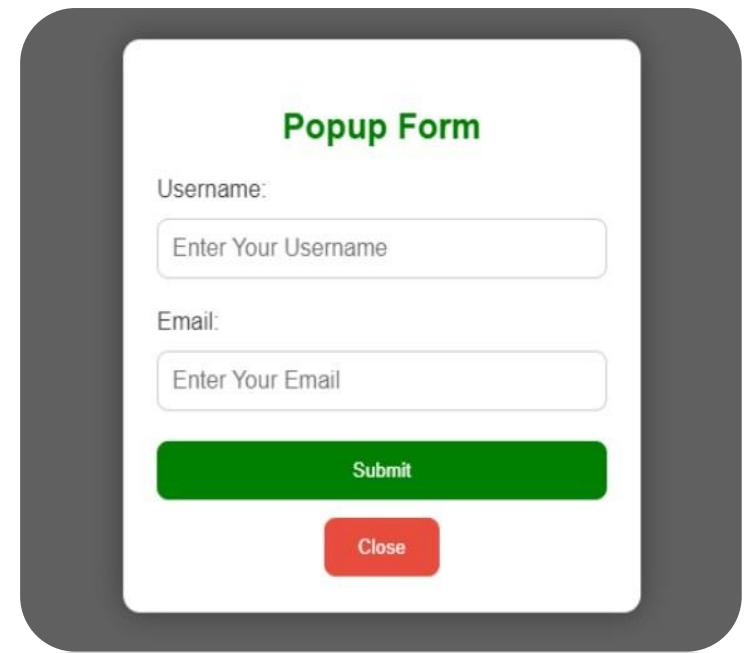
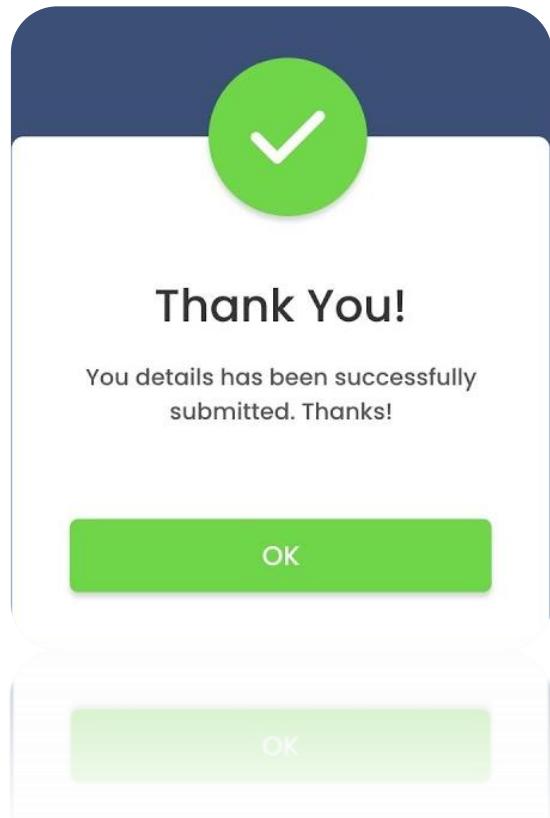
SEMESTER 1							SEMESTER 2								
CODE	COURSE	TYPE	CR	SCTS	YEAR	GRADE	STATUS	CODE	COURSE	TYPE	CR	SCTS	YEAR	GRADE	STATUS
ACAD100	ACADEMIC	Arts	2	3	2013	AA	EDIT	ACADEMIC	Arts	2	3	2013	AA		
101	ENGLISH	ENGLISH	100	100			102	ENGLISH	ENGLISH	100	100				
102	ENGLISH	ENGLISH	100	100			103	ENGLISH	ENGLISH	100	100				
103	ENGLISH	ENGLISH	100	100			104	ENGLISH	ENGLISH	100	100				
PHYS101	PHYSICS I	Arts	3	5	2013	CC	PHYS102	PHYSICS II	Arts	3	5	2013	DD		
101	PHYSICS I	PHYSICS	100	100			102	PHYSICS II	PHYSICS	100	100				
CMPE101	COMPUTER	Arts	4	5	2013	AA	CMPE102	COMPUTER	Arts	4	5	2013	AA		
101	PROGRAMMING I	PROGRAMMING	100	100			102	PROGRAMMING II	PROGRAMMING	100	100				
MATH101	MATHEMATICS	Arts	4	6	2013	DD	CMPE103	DISCRETE	Arts	3	5	2013	CC		
101	MATHEMATICS	MATHEMATICS	100	100			104	MATHEMATICS	MATHEMATICS	100	100				
CMPE103	INTRODUCTION TO	Arts	2	3	2013	AA	CMPE104	TECHNICAL	Arts	3	4	2013	BA		
101	COMPUTERS	COMPUTERS	100	100			102	ENGLISH	ENGLISH	100	100				
ELT101	ENGLISH	Arts	3	5	2013	BB	ELT102	ENGLISH	Arts	2	3	2013	BA		
101	ENGLISH	ENGLISH	100	100			102	ENGLISH	ENGLISH	100	100				
KUR101	KURDISH	Arts	3	5	2013	AA	KUR102	KURDISH	Arts	2	3	2013	AA		
101	KURDISH	KURDISH	100	100			102	KURDISH	KURDISH	100	100				
KUR102	KURDISH	Arts	3	5	2013	AA	KUR103	KURDISH	Arts	2	3	2013	AA		
101	KURDISH	KURDISH	100	100			102	KURDISH	KURDISH	100	100				

What is JavaScript?

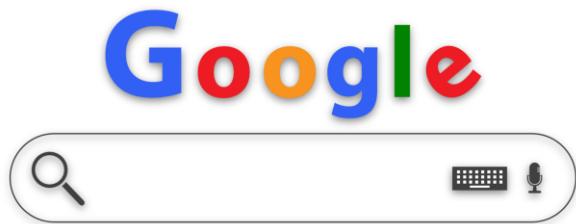
- **JavaScript** is a programming language mainly used to make web pages interactive and dynamic.
- **HTML** defines the structure of web content.
- **CSS** styles the appearance of content.
- **JavaScript** adds interactivity to web pages.



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



- **Tattroe, 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!