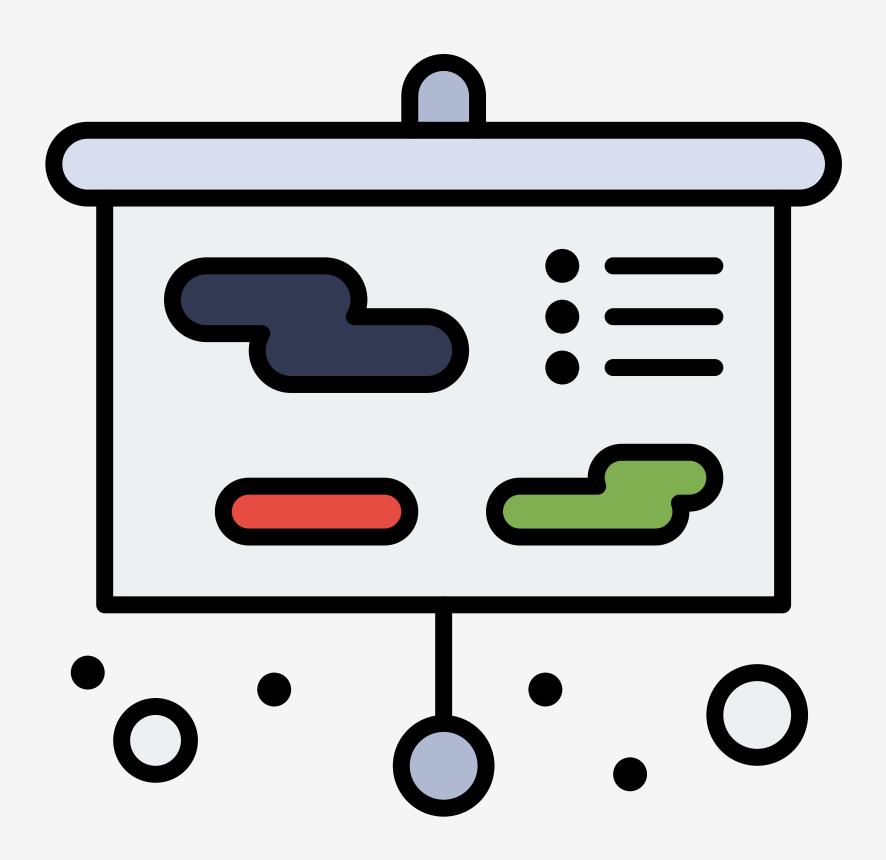
# SERVER-SIDE WEB DEVELOPMENT

Lecture 1

## TODAY'S TOPICS



- Course Introduction
- Install Development Tools
- Review Git & GitHub
- PHP Basics
- Participation: Hybrid #1

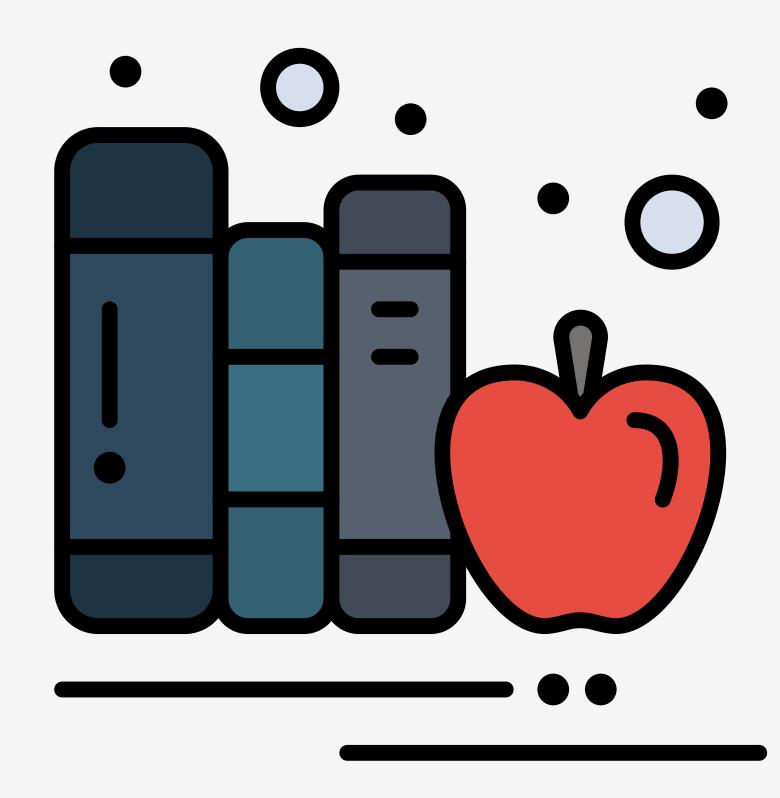
## ANNOUNCEMENTS



- Sign-in Sheet
- Recordings

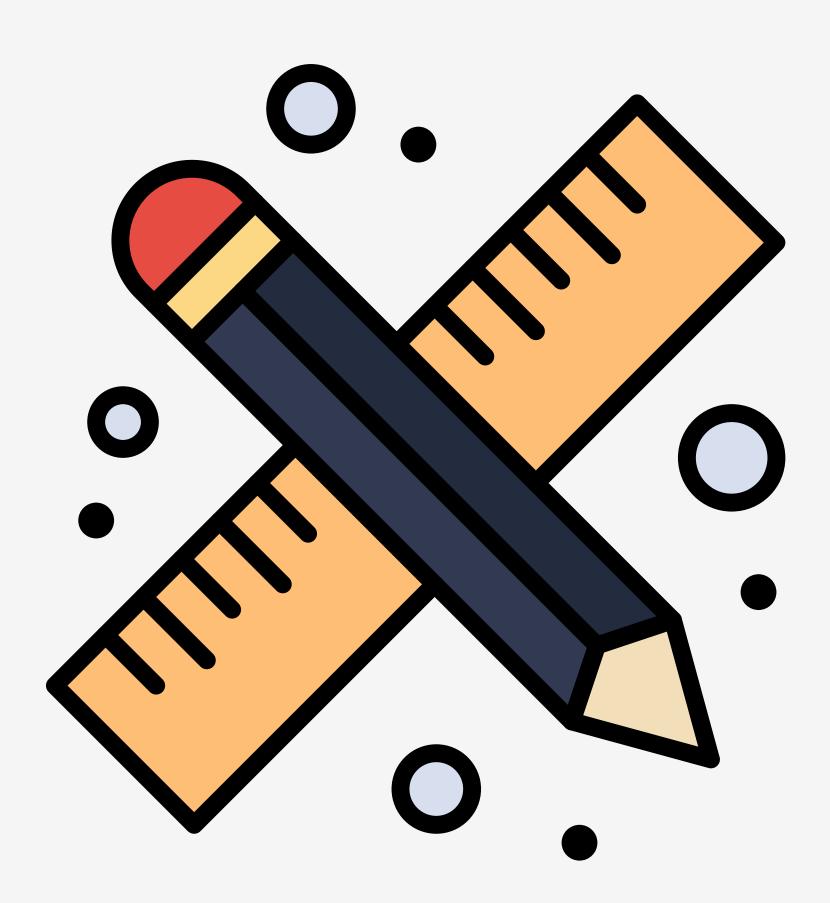
## COURSE INTRODUCTION

## COURSE TOPICS



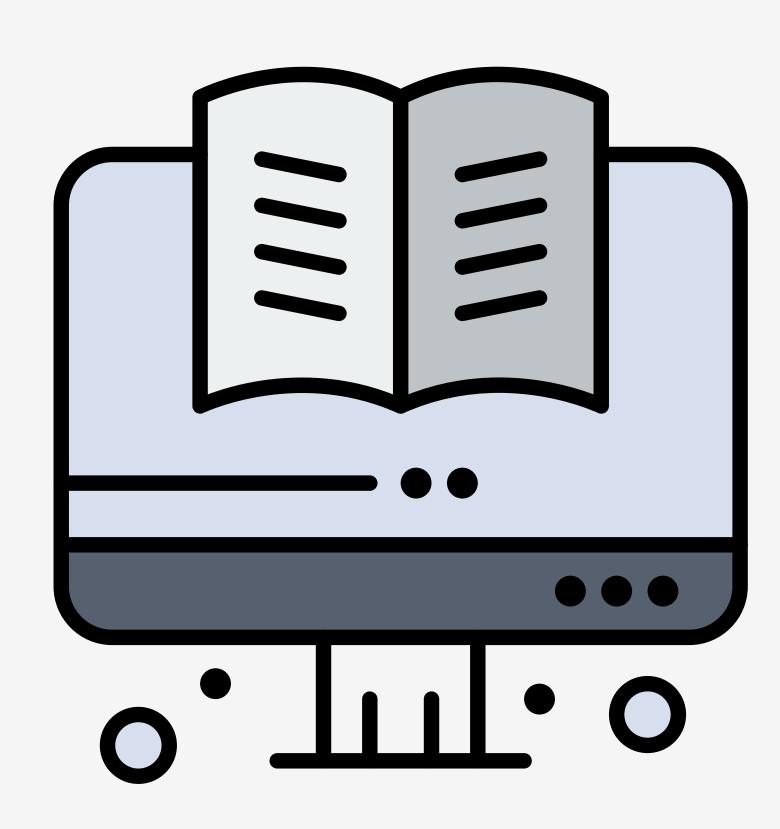
- PHP Basics
- PHP Requests
- PHP Includes
- Databases
- SQL Basics
- PHP Data Objects
- Laravel

## ASSIGNMENTS



- 12 Participation (20%)
- 5 Exercises (30%)
- Midterm Project (25%)
- Final Project (25%)

## COURSE CONTENT



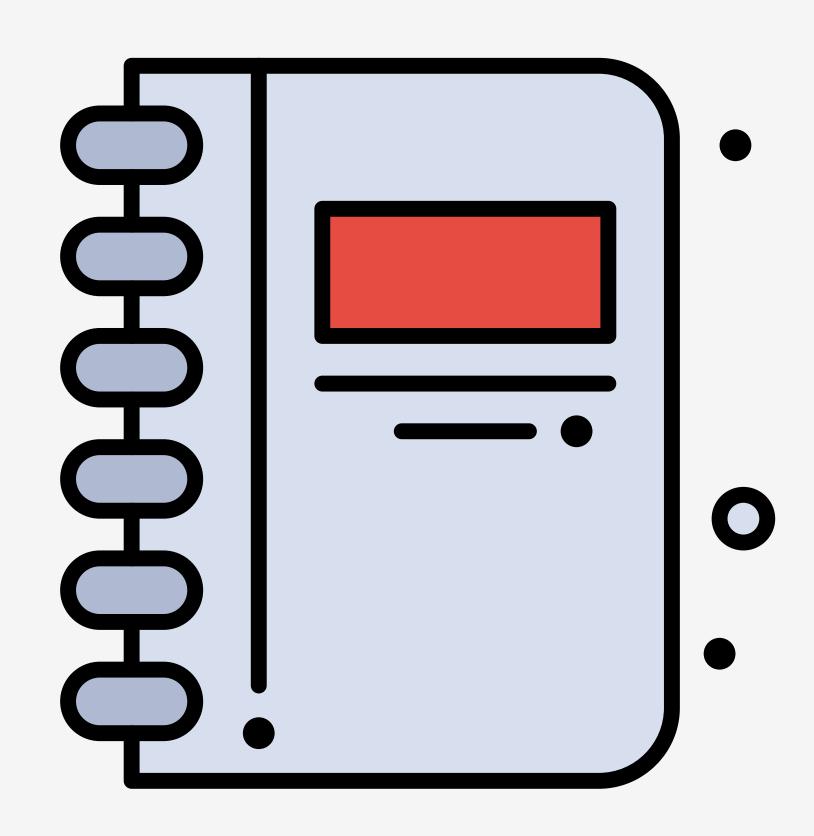
- IMDAC Website is use for content
- BrightSpace is used for submission and grades
- GitHub Classroom for submission

## COURSE STRUCTURE



- 13 weeks (No class on Family Day)
- 3hrs/week lecture/lab
- 1hr/week online
- Slides and recordings will be made available

## **CLASS TIMES**



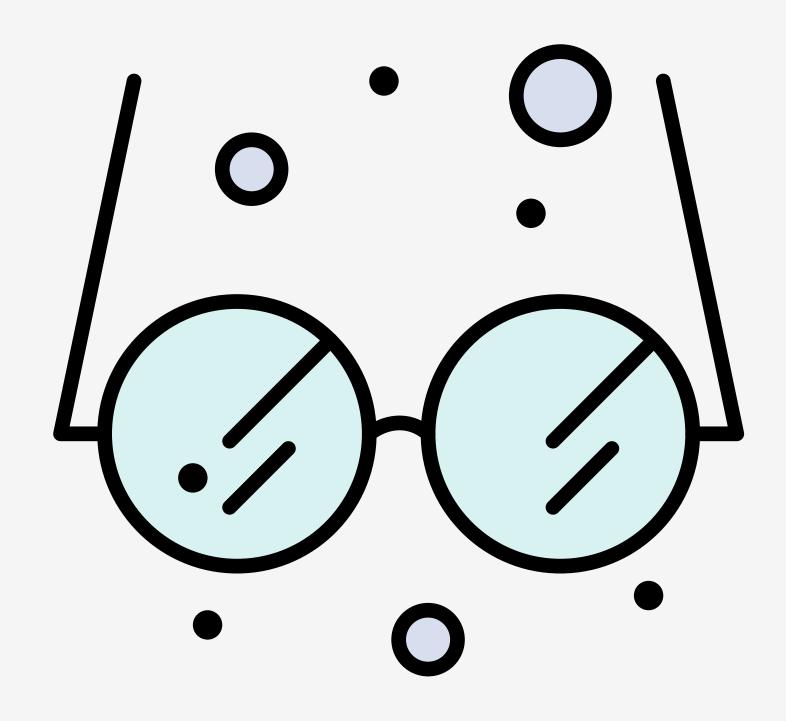
Section 310:
 Mon 10:00 AM - 1:00 PM (T229)

## STUDENT EXPECTATIONS



- Do the work
- Do your own work
- Don't be late
- Be respectful

## PROFESSOR EXPECTATIONS



- Provide accurate and timely information
- Be flexible to the needs of the class
- Respond to emails within 48 hours
- Provide feedback within 2 week
- Fair and unbiased grading

## PLAGIARISM & REFERENCING CODE



- Plagiarism is submitting someone else's work as your own WITHOUT proper reference
- Getting ANY code from online resource is considered plagiarism
- Sending or receiving code from a friend or classmate is considered plagiarism
- Working together on a project MAY fall under plagiarism

## PLAGIARISM & REFERENCING CODE



- Any code that is not entirely your own should be referenced
- ONLINE: Include a description of what the code does and the source URL
- PERSON: Include a description of what the code does and the name of the person and when help was received
- EXCEPTION: Any code provided in class or in course content can be used without reference

## INSTALL DEVELOPMENT TOOLS

## GIT & GITHUB

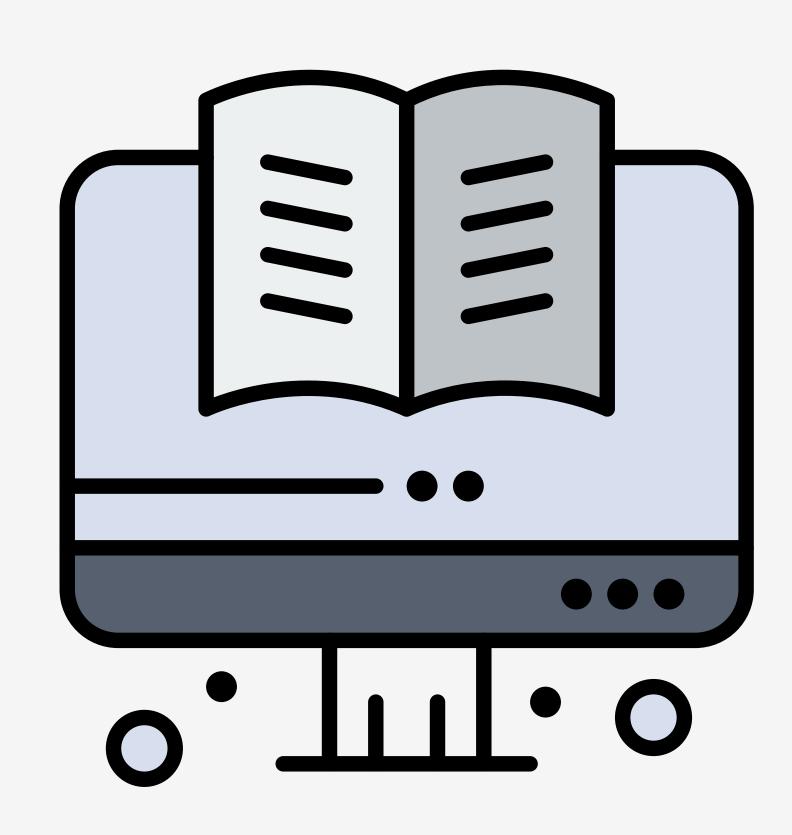
## GIT & GITHUB



- Review Git & GitHub Basics
- GitHub Classroom

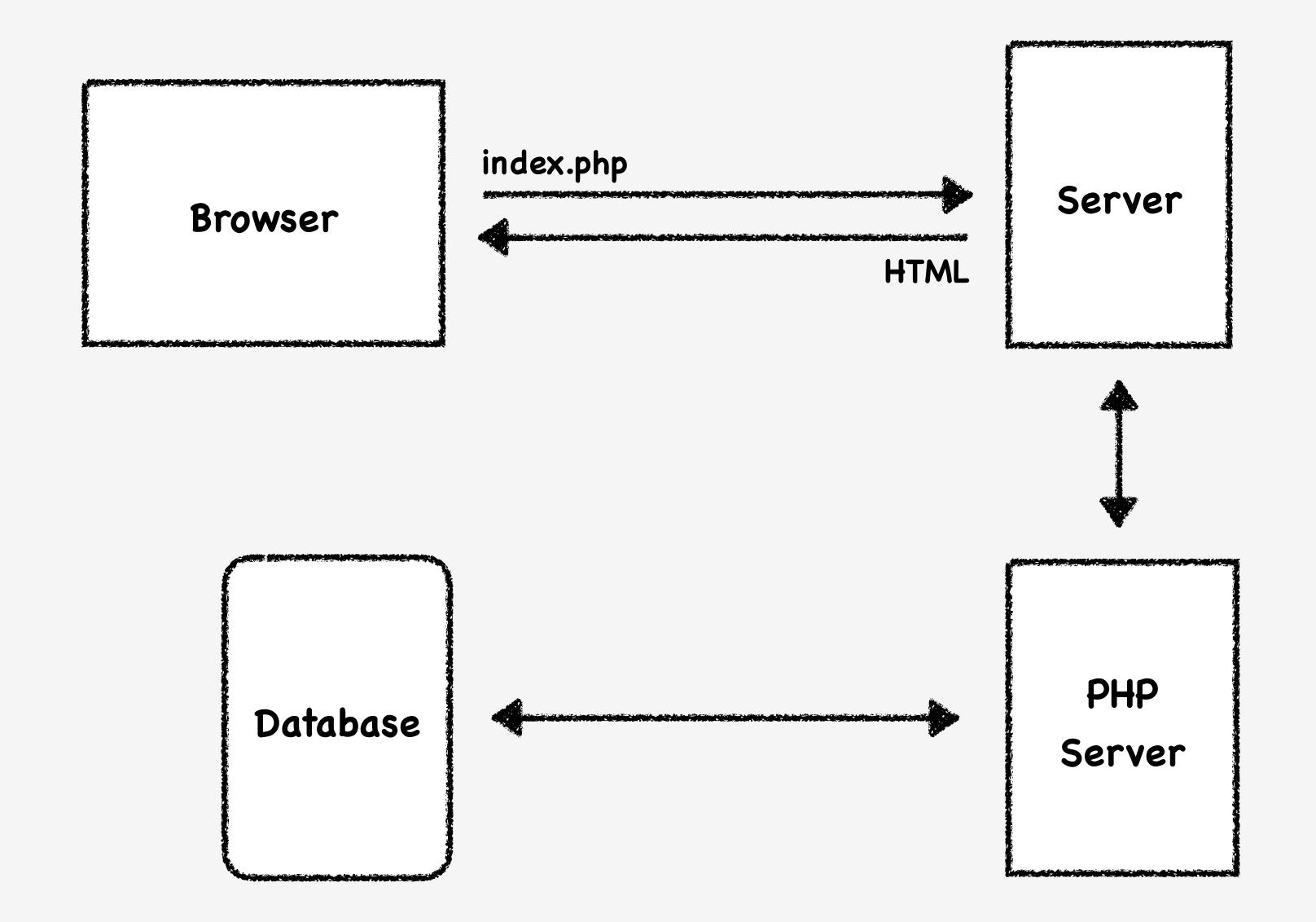
## PHP BASICS

## PHP HTML PREPROCESSOR

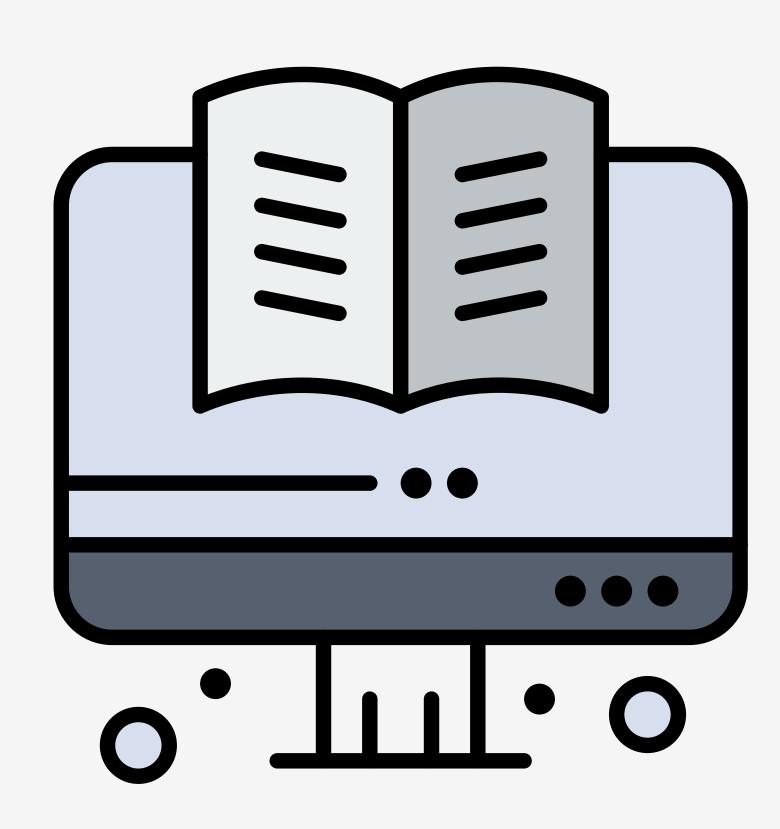


- General purpose scripting language
- HTML preprocessor
- Server-side language
- Cross-platform

## HOWIS PHP PROCESSED



## PHP SYNTAX

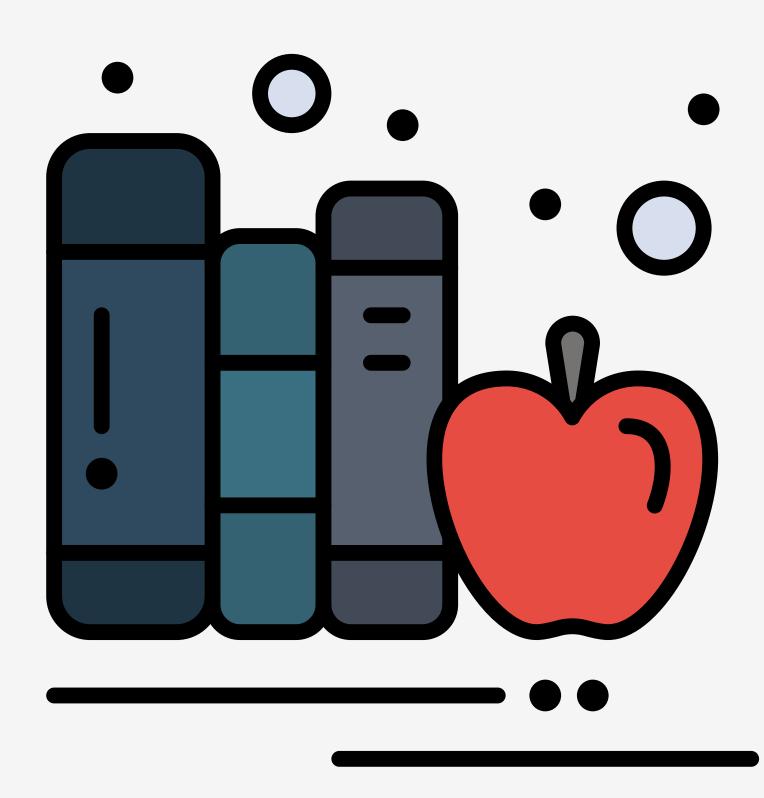


- PHP Extension ( php )
- PHP Tag ( <?php ?> )
- Semicolons are required

#### PHP SYNTAX

```
<?php $title = "A Simple PHP File"; ?>
<html>
  <head>
    <title><?php echo $title; ?></title>
  </head>
  <body>
    <?php echo "Hello World"; ?>
  </body>
</html>
```

## PHP ECHO

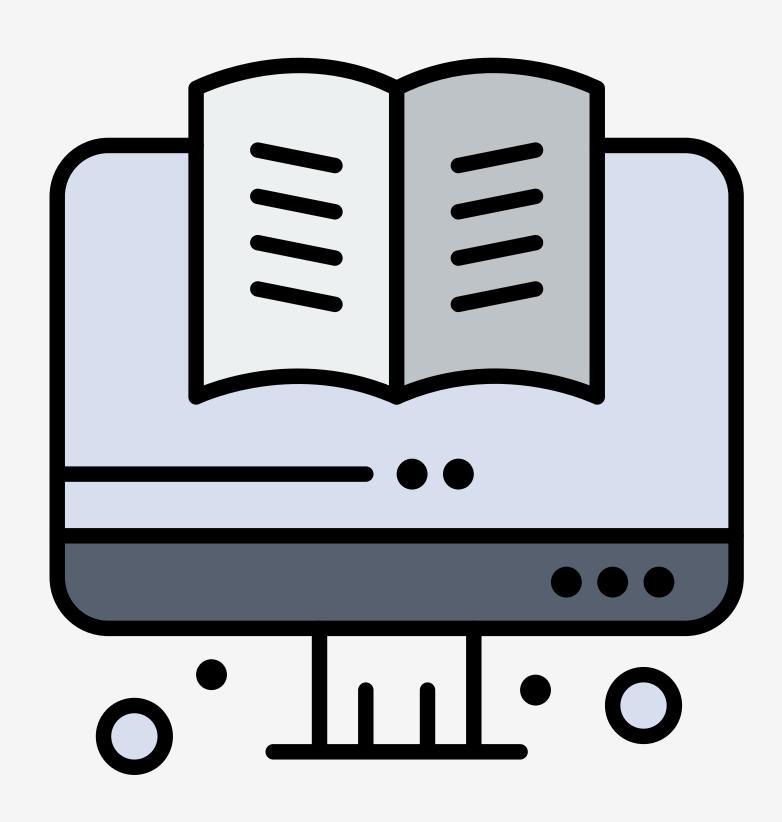


- Used to output one or more strings
- Primary to output PHP data as HTML

#### PHP ECHO

```
<?php $title = "A Simple PHP File"; ?>
<html>
  <head>
    <title><?php echo $title; ?></title>
  </head>
  <body>
    <?php echo "Hello World"; ?>
  </body>
</html>
```

#### PHP VARIABLES



- Variables are used to hold data including strings, numbers, and arrays
- Variable names must start with a dollar sign (\$)
- Variable names can contains letters, numbers, underscores, or dashes and are case-sensitives
- No declaration statement

```
<?php

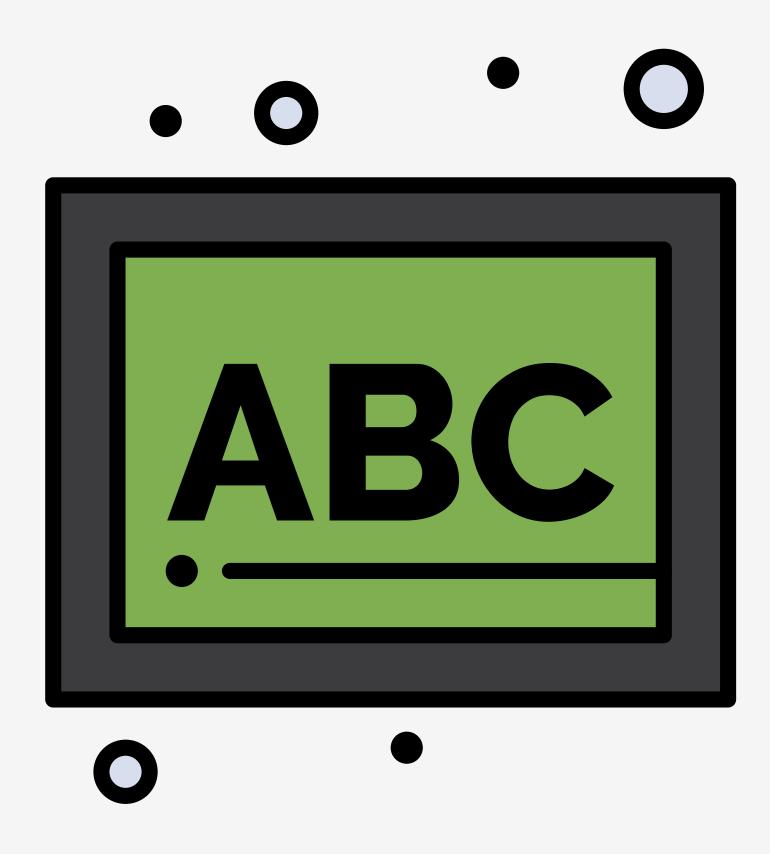
// gives $num a value

$num = 10;

echo $num; // outputs 10</pre>
```

## PHP VARIABLES

### PHP STRINGS

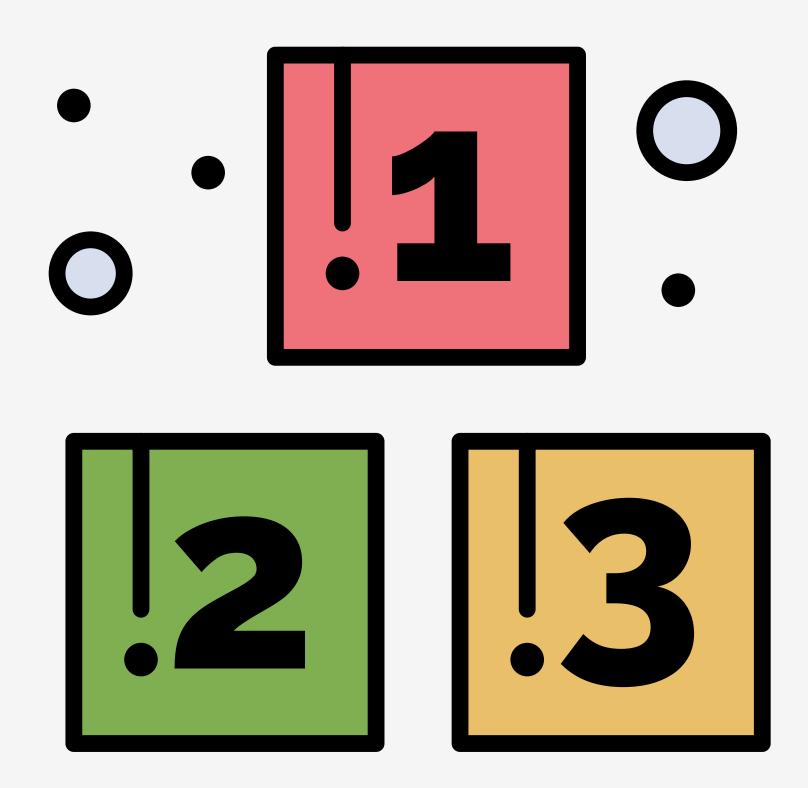


- Strings can be created using single quotes or double quotes
- Use the dot ( . ) is used for string concatenation
- Variable substitution occurs when a variable is embedded into a string literal (double quotes only)

#### PHP STRINGS

```
<?php
 // setting the variables to strings
  $greeting = "Hello";
  $target = "World";
 // combine variables together with a string
  $phrase = $greeting . " " . $target;
  echo $phrase;
 // using variable substitution
  echo "{$phrase} Again!";
```

## PHP ARRAYS



- An array is an indexed list of values
- Indexes start with 0
- Bracket notation is used to retrieve values
- Values can be added, changed or removed from an array
- An array containing other arrays requires an additional notation

```
<?php
$numbers = [4, 8, 15, 16, 23, 42];

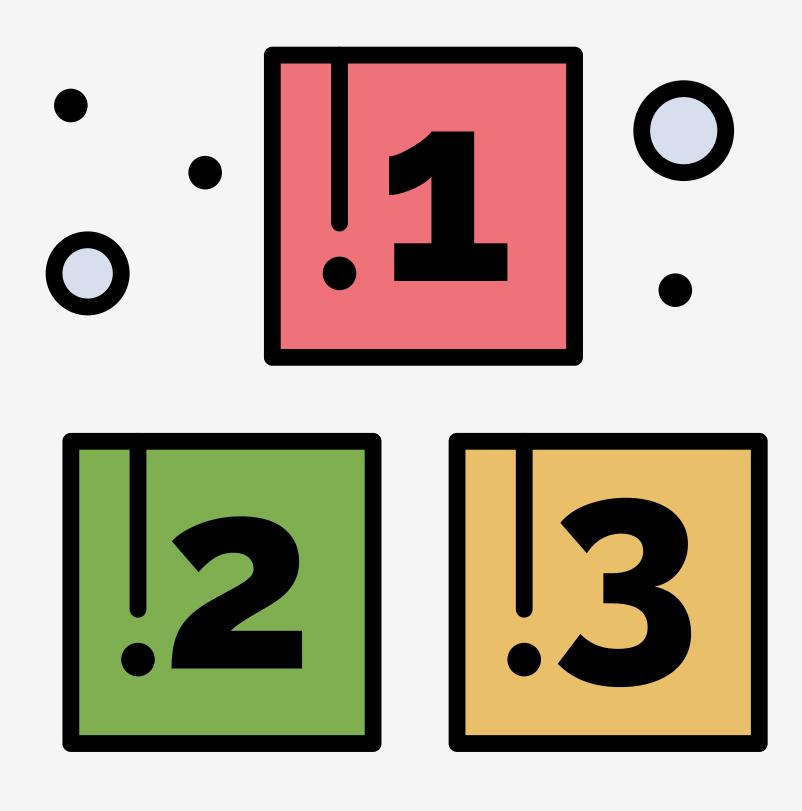
// getting the second item
echo $numbers[1]; // 8

// getting the first item</pre>
```

echo \$numbers[0]; // 4

#### PHP ARRAYS

#### PHP ASSOCIATIVE ARRAYS



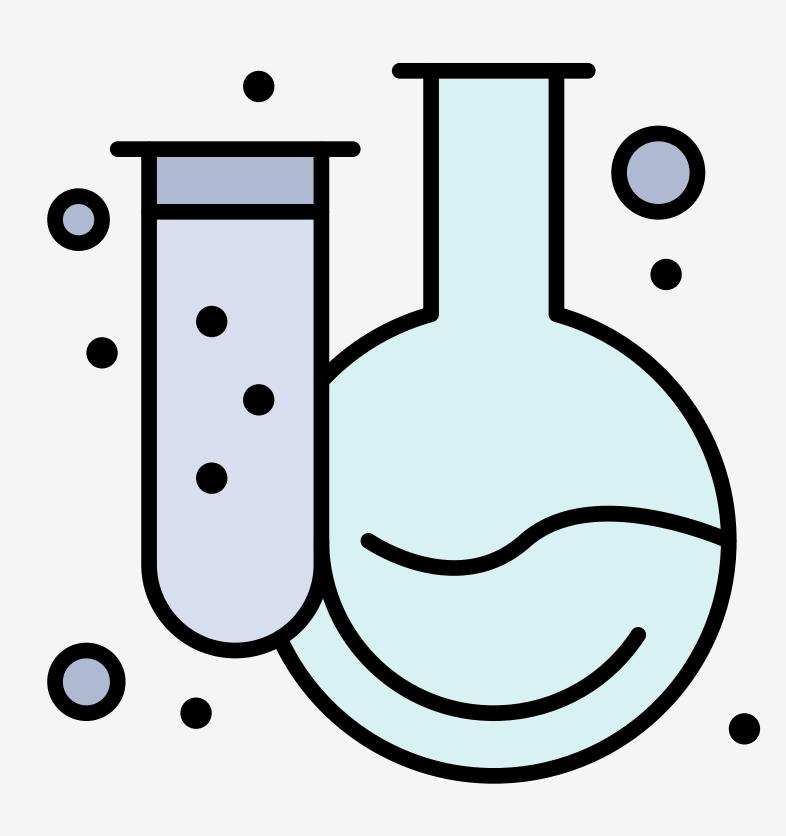
- Associative arrays uses strings instead of numbers which serve as labels or keys
- Both key and value must be provided when defining an associative array
- The key is used to both retrieve and update the value

## PHP ASSOC. ARRAYS

```
<?php
 // creating an assoc array
  soc = [
    "first_name" => "Michael",
    "last_name" => "Eisenbraun"
  ];
 // get the first name
  echo $assoc["first_name"]; // Michael
 // assign new value to first name
  echo $assoc["first_name"] = "Larry";
 // adding age to the array
  $assoc["age"] = 33;
```

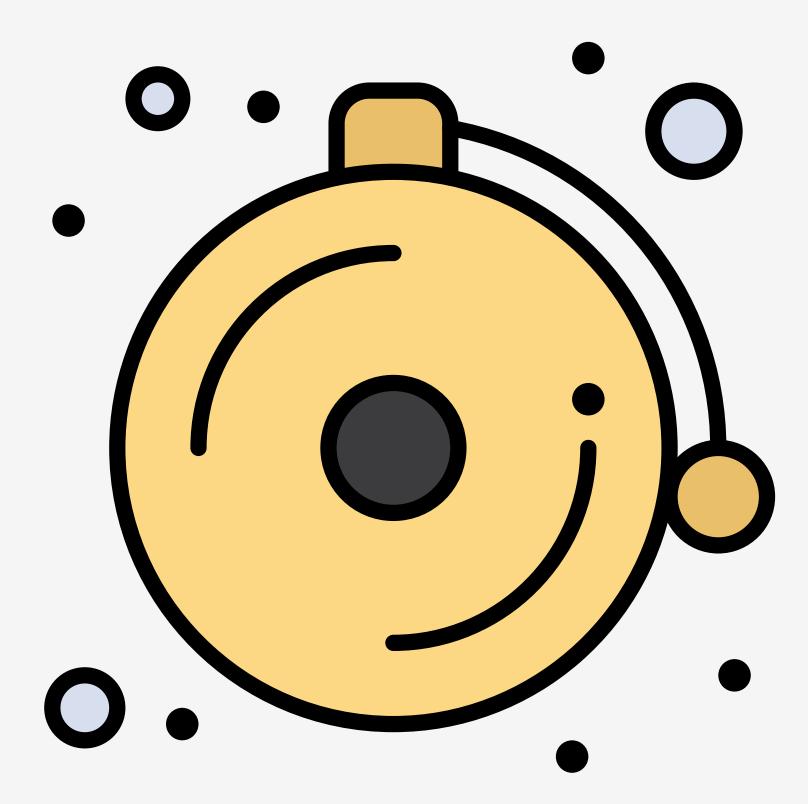
## HANDS-ON

## HYBRID #1



- Watch any 10 episodes of PHP Tips,
   Tricks, and Techniques on LinkedIn
   Learning
- Write 1 to 2 sentences for each episode
- DUE: Mon. Jan. 27 @ 11:59 PM

## NEXT TIME...



- More PHP Basics
- Participation: Deck of Cards
- Exercise: Dominoes