

What will be Covered Today? *WordPress (part 2) *JavaScript basics (part 2)

Assignments

- ❖ New Assignments
 - ▶ Lab 9 challenge (during tomorrow's lab)
 - ➤ No Lab 9 Assignment
- Deadlines
 - >HW 5 due was today at 6:00 pm
 - √There is no late submission period
 - **▶ Lab 8 Assignment** due is Friday at 6:00 pm.
 - √There is no late submission period
 - **▶ HW6** due is Tuesday 04/16 at 6:00 pm.

Midterm Exam 2

- A practice exam is posted on BB.
- ➤ The solution for midterm exam 1 is also posted on BB.

Show and Tell Day

- > 8 students have signed up yet!
- ➤ There is space for 2 to 4 more students.
- If you are interested, please send me an email asap.

Key WordPress Concepts, 1

❖ Post

- > A piece of content (news story, recipe) with a date and an author.
- > Part of a blog.

Blog (Web log)

- > A list of posts in reverse order.
- ➤ Abbreviation for "weblog"

Page (Web page)

- > Something you have created so far with HTML files in the assignments.
- > No date, no author.
- > Something that should always be visible
- > They are not supposed to change by the website users.

Key WordPress Concepts, 2

Theme

- ➤ WordPress visual design
- ➤ Usually written by outside designers

Widget

Drag and drop component of a web page

Plugin

- > Third-party code
- Usually adds interactivity
- Never use plugins that haven't been updated in 6 months or more

Key WordPress Concepts, 3

Editor

- Screen used to write pages and posts
- > Use the Text view to write HTML
- ➤ Use the Visual otherwise

Customization

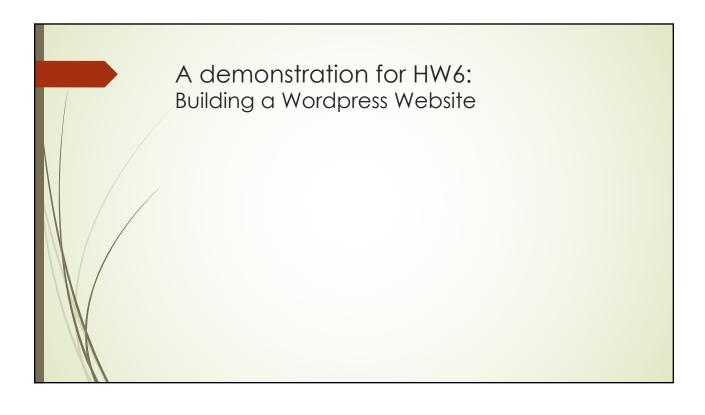
Changes to your theme, plugin, etc. that you can make without editing any code

Configuration

- Changes you make by editing code
- Must be redone after updates to WordPress, themes, or plugins
- > Customization is better than configuration.

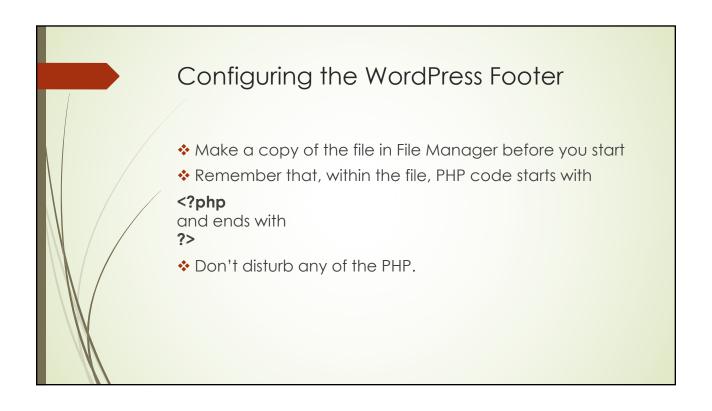
WordPress Challenges

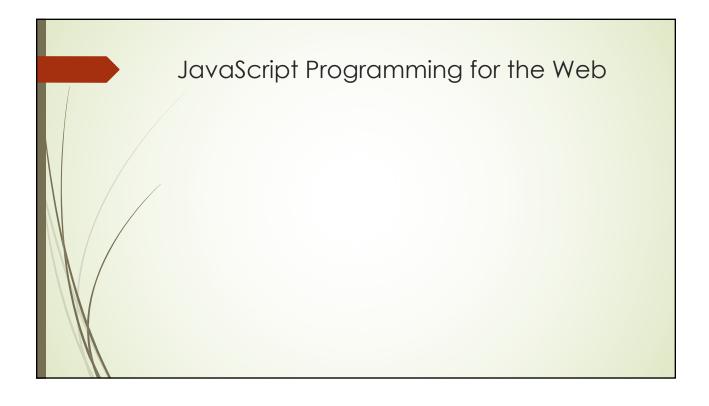
- Every theme is different
 - > Features and navigation are not standard
 - Requires patient exploration
- WordPress is very popular
 - ➤ Keep everything updated!
 - >Get rid of anything you are not using



For HW 6: Extra Credit by doing some PHP coding (Configuration)

- For extra credit point, add your Creative Commons license or copyright to the footer of your WordPress site
- Your WordPress theme may allow you to put your own text in the footer. (customization)
- Otherwise, to add text to the footer, you'll need to CAREFULLY edit the footer.php file (configuration)
- Customization is better than configuration because it will be preserved when you upgrade.





So far ...

- What is it for? Add interactive features to our pages.
- ♦ It isn't Java
- * Where does it run? In a browser like Firefox.
- ❖ The Basics!
 - Every line of code must end in a semicolon;
 - Comments in JavaScript start with two slashes //
 - > Variables: We use the *let* or var keyword to create a variable
 - > creating a variable and assigning a value in one line:

```
let studentAge = 22;
```

 \triangleright Operators: **let** c = 12 * 16;

So far ...

- JavaScript is incorporated into HTML pages using the script tag
- ❖ We can do both internal and external JS coding
- The script tag must have a closing tag
- The script tag can appear in the head or the body of an HTML page
- ❖ How a browser recognize a JavaScript file?
 - External JavaScript files are ordinary text files (like HTML and CSS) which end in .js
- How a browser recognize a JavaScript piece of code?
 - ➤ Internal JavaScript codes are places between **<script>...</script>** tags

So far ...

There are multiple ways to see the output of a JS code:

- console.log()
- alert()

alert("Hello World");

prompt()

prompt("Print your name:");

document.write()

document.write("Hello World");

❖innerHTML

document.getElementById("main").innerHTML= "Hello World";

Lets make a website for adults!!!

- 1. This website is supposed to show users a warning message about age.
- 2. Then, there has to be another message to ask user's age.
- 3. Based on the answer, another message will be asked to show that if the user is or is not allowed to enter the website.
- 4. Also, inside the document (the webpage), we would like to see a paragraph as following
 - A warning message asking to leave the page if user is less than 18
 - A welcome message if user is greater than or equal 18.
- 5. Also, if the user put anything except numbers greater than 0 and less than 150, ask the user to put an acceptable numerical answer.

Lets do the first two requirements:

- 1. This website should show a pop-up warning message about age.
- 2. Then, there has to be another pop-up message to ask user's age.
- 3. Based on the answer, another message will be asked to show that if the user is or is not allowed to enter the website.
- 4. Also, inside the document (the webpage), we would like to see a paragraph as following
 - A warning message asking to leave the page if user is less than 18
 - ➤ A welcome message if user is greater than or equal 18.
- 5. Also, if the user put anything except numbers greater than 0 and less than 150, ask the user to put an acceptable numerical answer.

Lets make a website for adults!!!

Lets do the first two requirements:

- 1. This website should show a pop-up warning message about age.
- 2. Then, there has to be another pop-up message to ask user's age.

<script>

alert("to enter this website, you need to be at least 18 years old.");

prompt("How old are you?");

</script>

Lets do the third requirement:

- 1. This website should show a pop-up warning message about age.
- 2. Then, there has to be another pop-up message to ask user's age.
- 3. Based on the answer, another message will be asked to show that if the user is or is not allowed to enter the website.
- 4. Also, inside the document (the webpage), we would like to see a paragraph as following
 - A warning message asking to leave the page if user is less than 18
 - A welcome message if user is greater than or equal 18.
- Also, if the user put anything except numbers greater than 0 and less than 150, ask the user to put an acceptable numerical answer.

Lets make a website for adults!!!

Lets do the third requirement:

- 1. This website should show a pop-up warning message about age.
- 2. Then, there has to be another pop-up message to ask user's age.
- 3. Based on the answer, another message will be asked to show that if the user is or is not allowed to enter the website.
 - Here, we need to take advantage of variables, and store the user's answer into a variable.
 - > Also, we need to learn about conditional statements

```
<script>
alert("to enter this website, you need to be at least 18 years old.");
var age = prompt("How old are you?");
</script>
```

Comparing things & Conditional Statements!

- We often want to know whether one thing is less than, greater than, or equal to another thing
 - > a < b // is a less than b?
 - > a > b // is a greater than b?
 - > a == b // is a equal to b? (note double ==)
- All of these expressions result in either true or false
- True and false are called Boolean values

Conditional statements!

- Typically we want something to happen based on a comparison
- ❖ For example, "if a is less than b, then give c the value 22"
- The JavaScript reads just like the statement above

```
let a = 12;
let b = 16;
let c;
if (a < b) {
    alert("a is less than b");
    c = 22;
}</pre>
```

Otherwise ...

- "if a is less than b, then give c the value 22, otherwise give c the value 9"
- The else keyword gives us this capability

```
let a = 12;
let b = 16;
let c;
if (a < b) {
    alert("a is less than b");
        c = 22;
}
else {
    alert("a is greater than b");
    c = 9;
}</pre>
```

Lets make a website for adults!!!

Lets do the third requirement:

- 1. This website should show a pop-up warning message about age.
- 2. Then, there has to be another pop-up message to ask user's age.
- Based on the answer, another message will be asked to show that if the user is or is not allowed to enter the website.

```
<script>
    alert("to enter this website, you need to be at least 18 years old.");
    var age = prompt("How old are you?");
    if (age > 17) {
        alert("welcome!!!");
      }
    else {
        alert("you are not allowed to enter this website!");
      }
</script>
```

Lets do the fourth requirement:

- 1. This website should show a pop-up warning message about age.
- 2. Then, there has to be another pop-up message to ask user's age.
- 3. Based on the answer, another message will be asked to show that if the user is or is not allowed to enter the website.
- 4. Also, inside the document (the webpage), we would like to see a paragraph as following
 - A warning message asking to leave the page if user is less than 18
 - A welcome message if user is greater than or equal 18.
- 5. Also, if the user put anything except numbers greater than 0 and less than 150, ask the user to put an acceptable numerical answer.

Lets make a website for adults!!!

Lets do the fourth requirement we have two options:

Also, inside the document (the webpage), we would like to see a paragraph as following

- A warning message asking to leave the page if user is less than 18
- A welcome message if user is greater than or equal 18.

document.write()

document.write("Hello World");

innerHTML

document.getElementById("main").innerHTML= "Hello World";

Lets do the fourth requirement we have two options:

Also, inside the document (the webpage), we would like to see a paragraph as following

- A warning message asking to leave the page if user is less than 18
- A welcome message if user is greater than or equal 18.

```
/ if (a > 17) {
    alert("welcome!!!");
    document.write("<h1> ... </h1>");
}
else {
    alert("you are not allowed to enter this website!");
    document.write("<h1> ... </h1>");
```

Lets make a website for adults!!!

Lets do the fifth requirement:

- 1. This website should show a pop-up warning message about age.
- 2. Then, there has to be another pop-up message to ask user's age.
- 3. Based on the answer, another message will be asked to show that if the user is or is not allowed to enter the website.
- 4. Also, inside the document (the webpage), we would like to see a paragraph as following
 - A warning message asking to leave the page if user is less than 18
 - ➤ A welcome message if user is greater than or equal 18.
- 5. Also, if the user put anything except numbers greater than 0 and less than 150, ask the user to put an acceptable numerical answer.

Do something more than once

- It's often the case that we need to do a set of steps several times
- JavaScript provides us a way with a loop

The FOR loop

- When you know how many times to do something
- ◆ "Sum the numbers from 0 to 5, i.e. 0+1+2+3+4+5"
- The loop uses a counting variable to count how many times we've done the loop

for (start point; end point; how to change count)
for (count=0; count < 6; count += 1)

This says 'start at zero, and as long as count is less than 6, run the loop and add one to the count'

```
The FOR loop ...

set up a variable to hold result

this counts the number of times to do the loop

let theSum = 0; for (counter = 0; counter < 6; counter = counter+1) { theSum = theSum + counter; }

once we hit 6, exit the loop
```

