

#### **FRONTEND**

1



#### **Frontend**

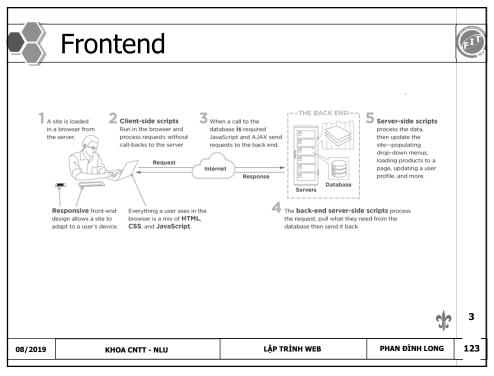


- Front-end web development is the practice of converting data to graphical interface for user to view and interact with data through digital interaction using HTML, CSS and JavaScript.
- A front-end developer architects and develops websites and applications using web technologies (i.e., HTML, CSS, DOM, and JavaScript), which run on the Open Web Platform or act as compilation input for nonweb platform environments

3/3

2

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB PHAN ĐÌNH LONG 12





#### **HTML**



- HTML: Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser.
- Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages.
- HTML is the backbone of any website development process, without which a web page doesn't exist.

2/3

1

123

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB

PHAN ĐÌNH LONG

Δ



# CSS



- Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language like HTML.
- CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.

2

5

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123



#### **JavaScript**



- JavaScript (JS) is a high-level, interpreted scripting language that conforms to the ECMAScript specification.
- JavaScript lets you add interactive features to your Web sites, including dynamically updated content, controlled multimedia, animated images, and much more.

36

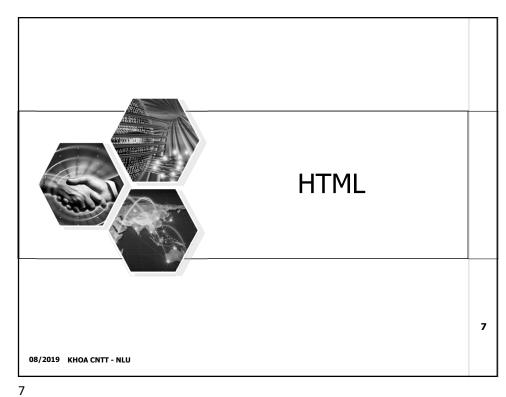
6

08/2019 KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123





# **HTML Tag**



- HTML is a markup language that provides a description of the structure/layout of your web page.
- An HTML *element* is formed using a *tag.* 
  - EX:

: tag is used to describe a paragraph

HTML element.

<h1> : Highest-level heading <h6> : Lowest-level heading

<img> : An image

K

•

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB PHAN ĐÌNH LONG

R



# **HTML Tag**



- These tags are enclosed within angle braces.
- HTML elements contain both *opening* and *closing* tags to indicate where an element starts and ends.
  - Opening tag: <tag name>
  - Closing tag: </tag name>
  - has its closing tag <body> tag has its closing tag </body> <div> tag has its closing tag </div>
- However, not all of these elements require the end tag. Some elements, the so-called void elements, do not have an end tag.

LÂP TRÌNH WEB

EX: <hr/>horizontal line <br/>line break tag

KHOA CNTT - NLU

PHAN ĐÌNH LONG

123

#### **Basic HTML File**

KHOA CNTT - NLU



- Basic HTML file to get a better understanding of how to use markup to define the structure of a web page.

```
<DOCTYPE! html>
<html>
   <title>Nong Lam University</title>
 </head>
 <body>
   <h1>First HTML File</h1>
   Welcome to Nong Lam University
 </body>
</html>
```

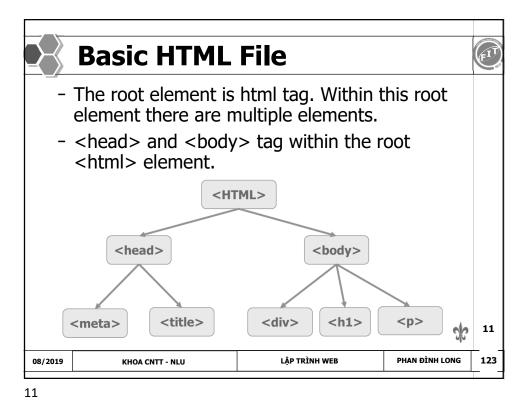
LẬP TRÌNH WEB

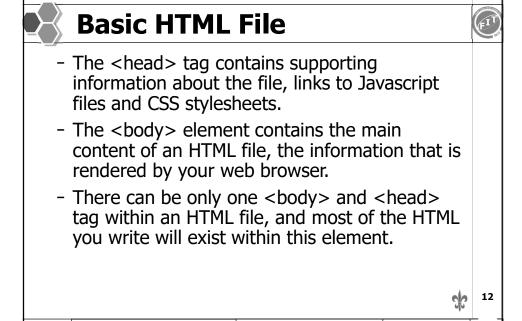
10

123

PHAN ĐÌNH LONG

08/2019





LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

12

08/2019

KHOA CNTT - NLU



#### **HTML Attributes**



- HTML attributes provide additional information about an HTML element. Attributes can be considered as properties of the element.
- An element may have a single attribute, many attributes, or no attributes at all.

2/6

13

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

13



#### Id and Class attribute



- The id and class attributes can be used to identify specific HTML elements across your HTML page.
- The id attribute give any element a unique identifier.
- The class attribute is similar to the id attribute in that it is used to identify specific elements.
- Id and Class can later be used for things like applying specific styles with CSS or capturing input with some Javascript code.

2/3

14

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123



# Id attribute



- An id value should only be used for a single element.
- An id value must not contain any whitespace
- A single element cannot have multiple id values

```
<!-- Right -->

<!-- Wrong -->
```

3

15

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

15



#### Class attribute



- The same class value can be used across multiple elements
- An element can have multiple class values, separated by whitespaces
- Ex:

3/2

16

123

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG



# Basic tag



- Tag <a>: Hyperlinking
  - connect to a HTML page or other web pages by creating a hyperlink.
  - Attribute *href*: A URL connect to web address.
  - An absolute URL: URL have three main components:
    - The Protocol: http://, https:// ftp://
    - The **Domain**: Domain name of website
    - The **path**: information direct to webpage
  - A relative URL: provide less information than absolute URLs and generally refer to pages on the same domain.
  - EX: <a href="http://www.google.com">Google</a>
    <a href="about.html">About</a>

    the feather factor for the feather factor factor for the feather factor facto

17



#### Basic tag



- Block-level Elements
  - Headings (<h1>-<h6>)
    - Ordered and Unordered Lists (, )
    - List Items ()
    - Paragraphs ()
    - Logical divisions ( <div> )

20

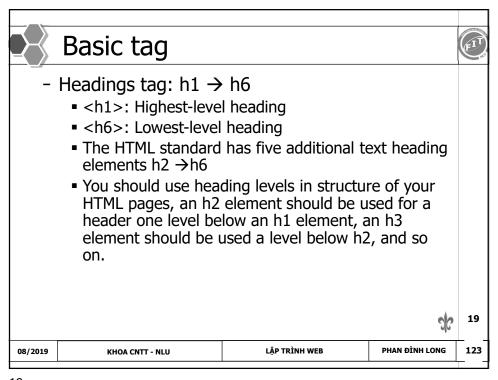
18

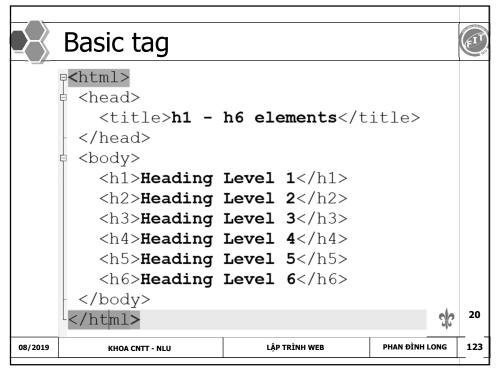
123

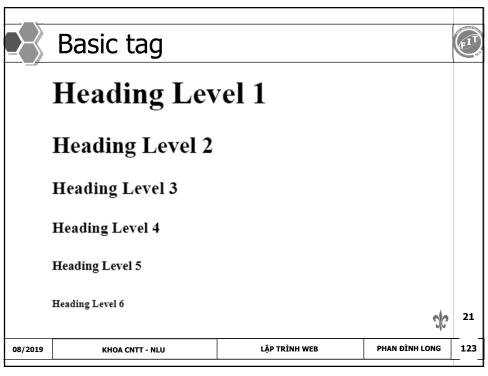
08/2019 KHOA CNTT - NLU

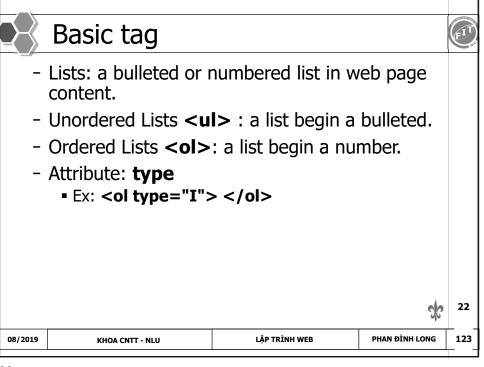
LẬP TRÌNH WEB

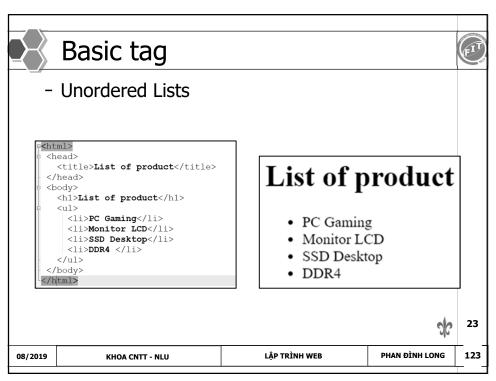
PHAN ĐÌNH LONG

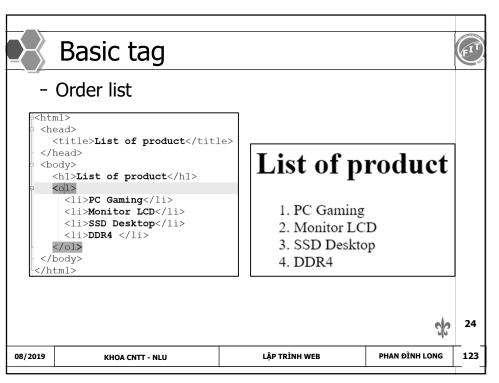














# Basic tag



- Block Elements: HTML tag can make full width in web page, making a block around content.
  - Ex: <h1>-<h6>,, ,,,<div>
- Inline Elements: HTML tag cannot make full width. Inline Elements do not start a new line, it's part of the content in a block.
  - Ex: <a>, <i>, <img>, <em>

25

08/2019

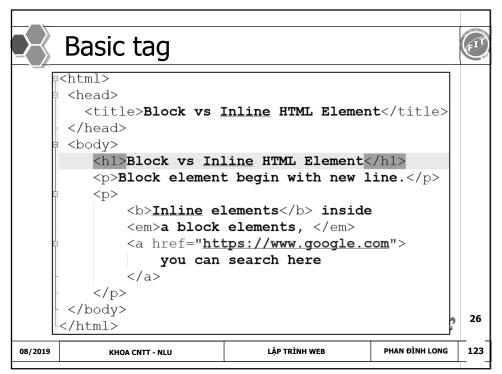
KHOA CNTT - NLU

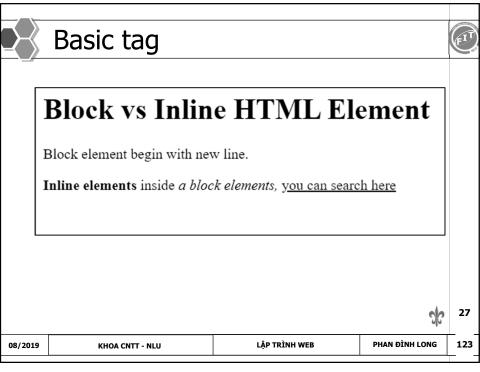
LẬP TRÌNH WEB

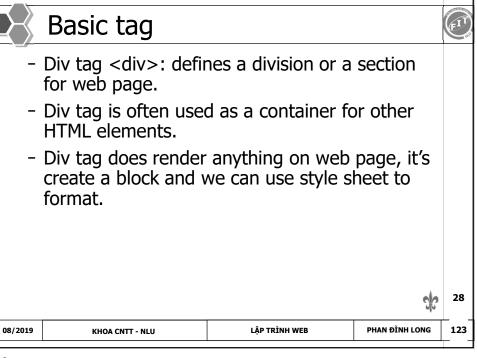
PHAN ĐÌNH LONG

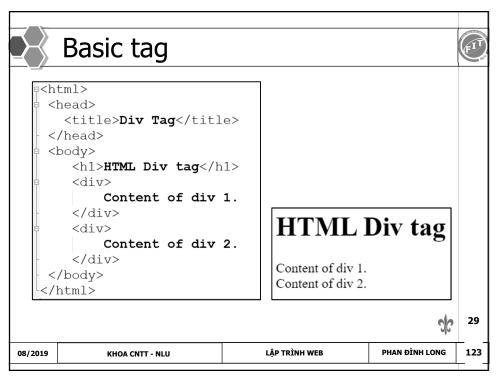
123

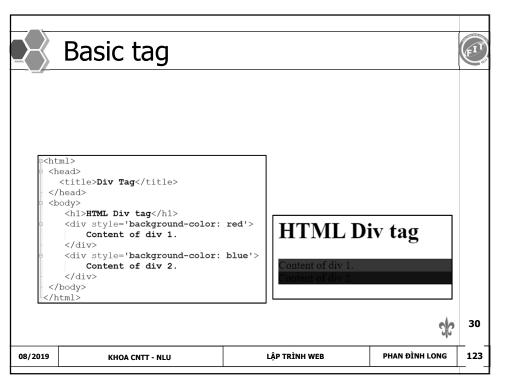
25









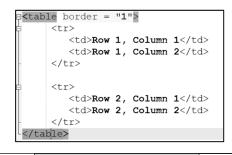




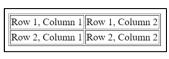
# Basic tag



- Table tag : defines an HTML table with multi row and colume.
- The **>** tag is used to create table rows.
- The , tag is used to create data cells.



KHOA CNTT - NLU



LẬP TRÌNH WEB

31 ONG 123

PHAN ĐÌNH LONG

31

08/2019



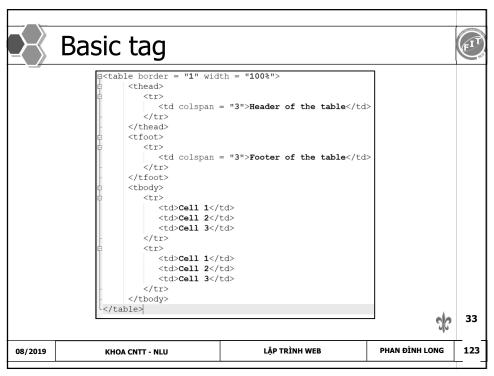
# Basic tag

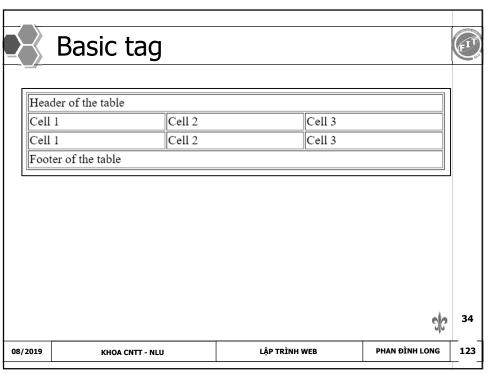


- Table Header, Body, and Footer
- <thead> to create a separate table header.
  - to indicate the main body of the table.
  - <tfoot> to create a separate table footer.

32

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB PHAN ĐÌNH LONG 123







#### **HTML Forms**



- HTML forms are how we receive user input on our web pages.
- If you've ever visited a blog and left a comment or used your credit card online to purchase something, you have used HTML forms to interact with the web page you were visiting.
- Ex: when you visit a website and you must login to access some function, You must provide the username and password for the website.

35

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

35



#### **HTML Forms**

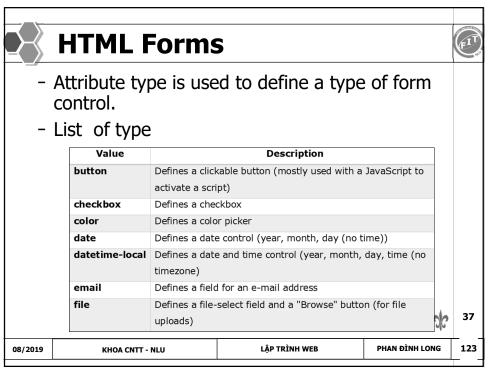


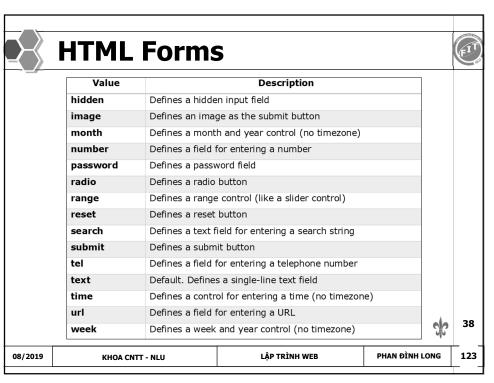
- Input tag <input> defind some control allow the user to input data.
- Input tag no need close tag.
- Label tag <label> using with input tag to make label for every input tag.

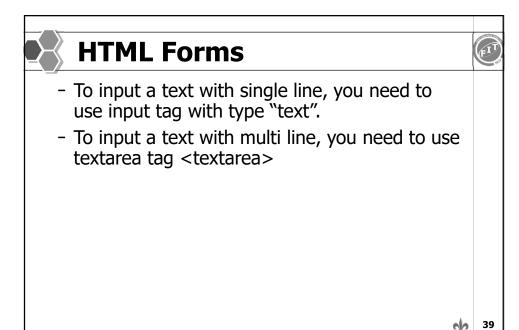


36

08/2019







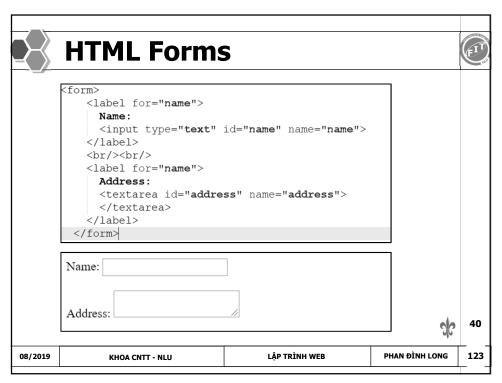
LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

39

KHOA CNTT - NLU





#### **HTML Forms**



- A <button> element should be used whenever you want to create a clickable button to perform some action on the page.
  - submit: submits form data to a server
  - reset: resets all the data in the current form
  - button: no default behavior.

41

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

G 123

41



# **HTML Forms**

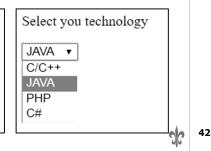


- <select> tag (with nested <option>) used to create a drop-down selection of items that a user can choose from.
- Including the selected attribute in an <option> element will show that option by default.

LẬP TRÌNH WEB

<form>
<label for="selector">
Select you technology
<select id="selector">
<option>C/C++</option>
<option>BHP</option>
<option>C#</option>
<option>C#</option>
</select>
</label>
</form>

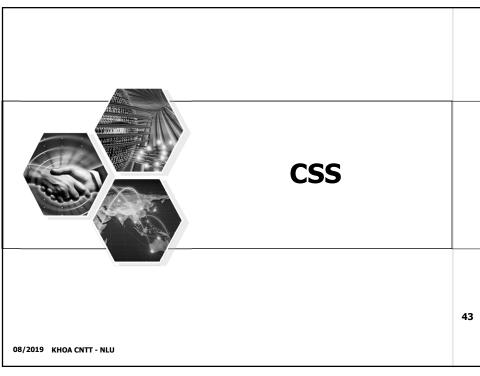
KHOA CNTT - NLU



PHAN ĐÌNH LONG 123

42

08/2019





#### **CSS**



- CSS (Cascading Style Sheets) is a style sheet language used for describing the presentation of a document written in a **markup language**
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- CSS **saves a lot of work**. It can control the layout of multiple web pages all at once
- External stylesheets are stored in **CSS files**

3/3

4 |

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB PHAN ĐÌNH LONG 123



#### **CSS**



- CSS can be added to HTML elements in 3 ways:
  - **Inline** by using the style attribute in HTML elements
  - Internal by using a <style> element in the <head> section
  - External by using an external CSS file

3/3

123

45

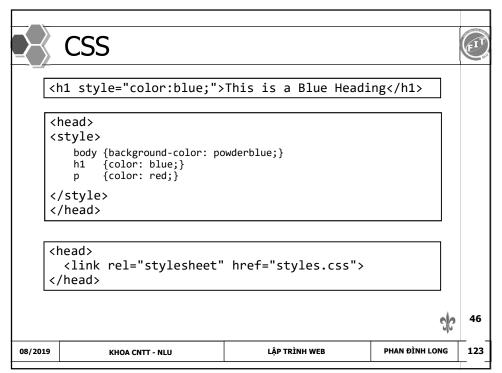
08/2019

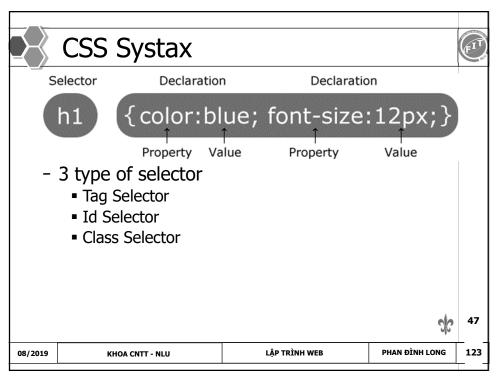
KHOA CNTT - NLU

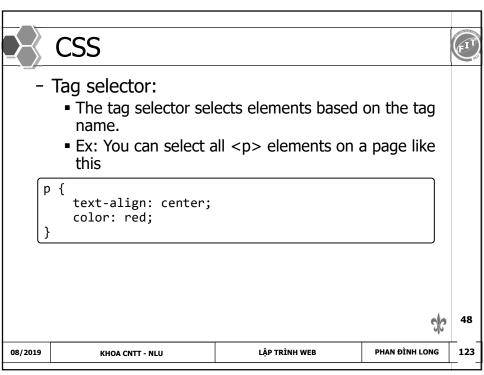
LẬP TRÌNH WEB

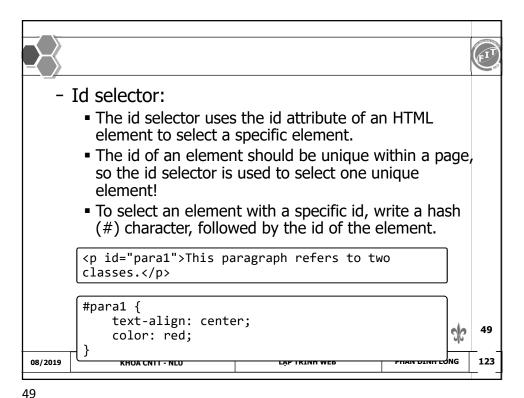
PHAN ĐÌNH LONG

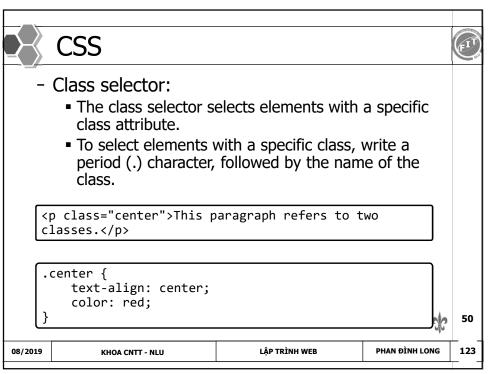
45

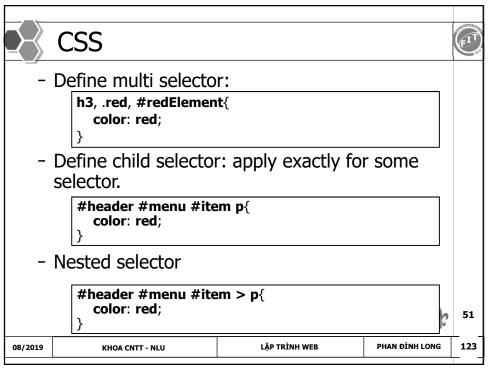


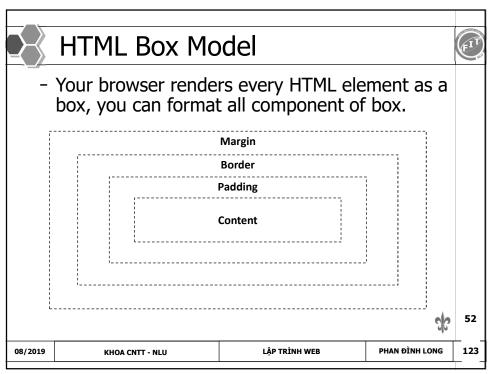
















- The CSS box model is essentially a box that wraps around every HTML element. It consists of: margins, borders, padding, and the actual content.
  - Margin Clears an area outside the border. The margin is transparent
  - Border A border that goes around the padding and content
  - Padding Clears an area around the content. The padding is transparent
  - Content The content of the box, where text and images appear

2/3

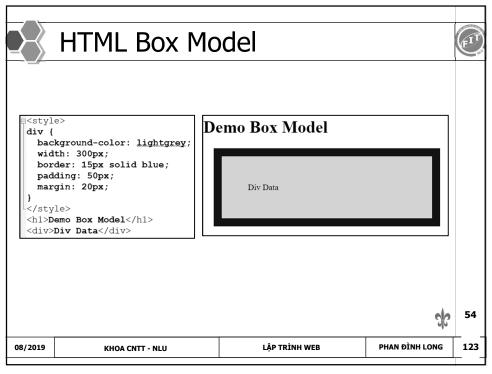
2019 KHOA CNTT - NLU

LẬP TRÌNH WEB PHAN ĐÌNH LONG

123

53

53







- height and width:
  - Use the height and width CSS properties to change the height and width of an element's content area.

Value	Description
auto	The browser calculates the height. This is default
length	Defines the height in px, cm, etc. Read about length units
%	Defines the height in percent of the containing block
initial	Sets this property to its default value. Read about initial
inherit	Inherits this property from its parent element. Read about inherit
	do

LONG 123

55

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB PHAN ĐÌNH LONG

55



# **HTML Box Model**



- padding: to create spacing between an element's *content area* and *border.*
- The padding property is a shorthand property for:
  - padding-top
  - padding-right
  - padding-bottom
  - padding-left

2/3

PHAN ĐÌNH LONG

56

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB





- Padding property with four values:
  - padding:20px 15px 10px 5px;
    - Top padding is 20px
    - Right padding is 15px
    - Bottom padding is 10px
    - · Left padding is 5px
- Padding property with three values:
  - padding:20px 15px 10px;
    - Top padding is 20px
    - Right and left padding are 15px
    - Bottom padding is 10px

36

57

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

57



### **HTML Box Model**



- Padding property with two values:
  - padding:20px 15px;
    - Top and bottom padding are 120px
    - · Right and left padding are 15px
- Padding property with one values:
  - padding:20px;
    - All four paddings are 20px

2/3

58

123

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG





- Margin: The margin property is very similar to the padding property, except it allows you to define the spacing around the outside of an HTML element past the border.
- Margin with value *auto*: making a html element position to center with outside element.

59

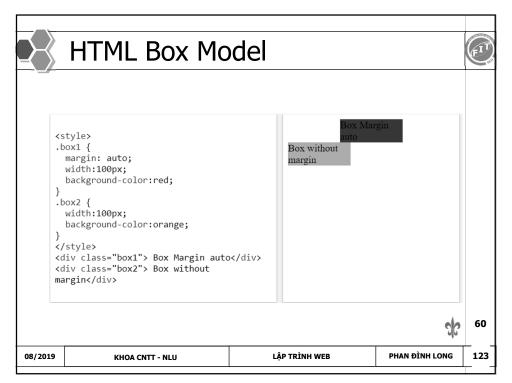
123

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

59







- Border: border CSS property sets the border of an element. The syntax for the border property is as follows:
  - border: width style color;
    - Width: width of border.
    - Style: can include things like dotted, groove, double, and solid
    - · Color: color value for border.

2/3

61

2019 KHOA CNTT - NLU LẬP TRÌNH WEB

PHAN ĐÌNH LONG 123

61



# **HTML Text Format**

KHOA CNTT - NLU



Color	Color: colorcode;	Format color for text content.	
Font Size	font-size: <b>size</b> ;	Set the size of the text.	
Font Weight	font-weight: <b>type</b> ;	The weight of a font.	
font-family	font-family: <b>font name</b> ;	The font for an element.	
text-align	text-align: alignment;	The horizontal alignment of text in an element	

LẬP TRÌNH WEB

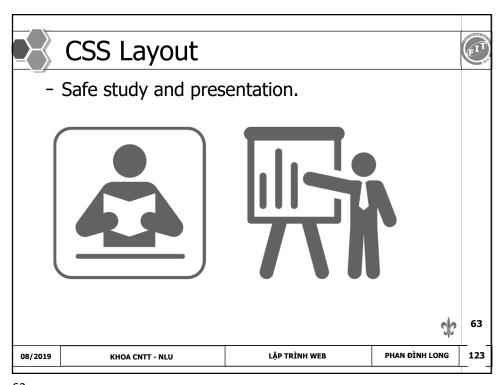
3/3

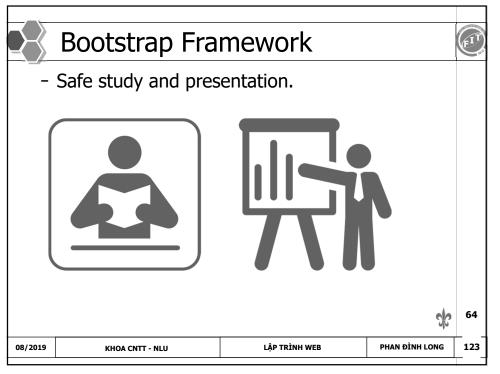
PHAN ĐÌNH LONG 123

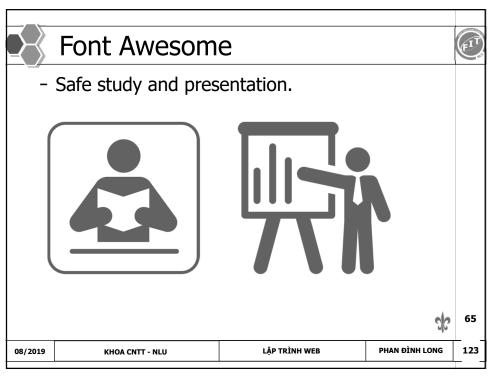
62

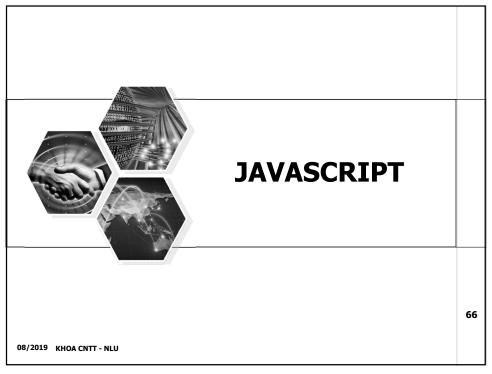
62

08/2019











# **Javascript**



- Javascript is the programming language of the web.
- Javascript allow access and control HTML element in webpage.
- Javascript allows making dynamic webpage from static webpage.
- One of the main reasons we use Javascript to build interactivity is because it allows us to manipulate the Document Object Model (or DOM) for short.



67

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

67



#### **Javascript**



- Using Javascript, we can manipulate the DOM to do things like:
  - Modify existing HTML elements
  - Modify attributes on HTML elements
  - Add or modify the CSS associated with HTML elements
  - Add and delete HTML elements



68

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG



# Variable



- The var keyword is used to declare a variable.
  - Ex: var text="new text";

var button = document.querySelector('button');

- Variable always has a data type associated with it that tells the computer exactly how to handle the data that it's given. In Javascript, the data's type is automatically determined when the code is executed
- You can you method console.log() to output data to console webpage.

2/3

69

08/2019 KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

69

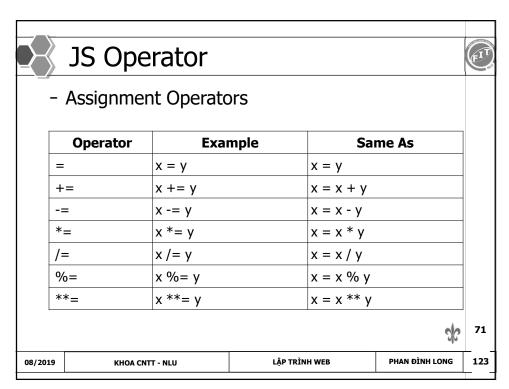


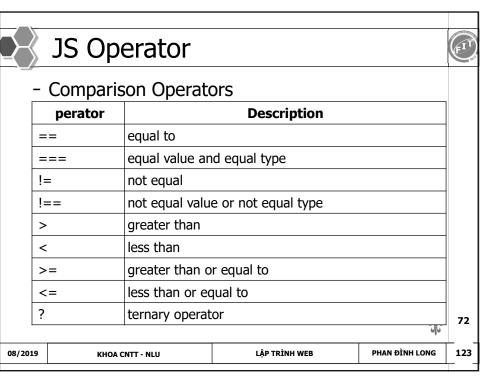
# JS Operator

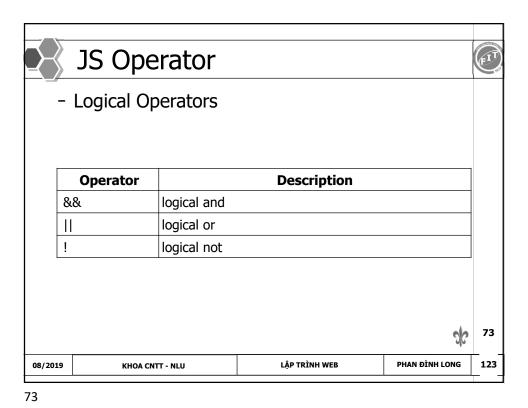


Arithmetic Operators

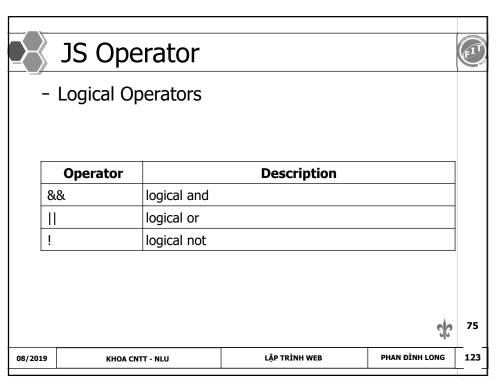
Operator	Description	n	
+	Addition		
-	Subtraction		
*	Multiplication		
**	Power Operator		
1	Division		
%	Modulus (Division Rema	Modulus (Division Remainder)	
++	Increment		
	Decrement	c	70
KHOA CNTT - NLU	LẬP TRÌNH WEB	PHAN ĐÌNH LONG	123

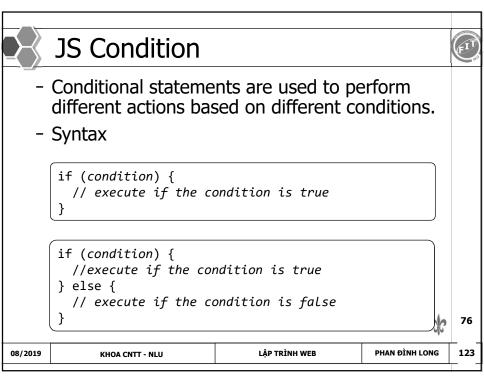


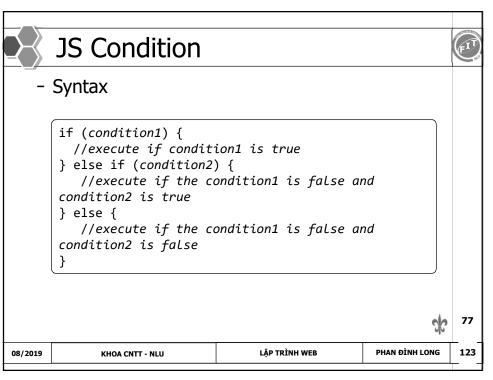




JS Operator - Bitwise Operators **Description** perato **Example** Same as Result **Decimal** & AND 5 & 1 0101 & 0001 0001 1 5 | 1 0101 | 0001 5 OR 0101 NOT ~ 5 ~0101 1010 10 ~ ^ 5 ^ 1 0101 ^ 0001 **XOR** 0100 4 Zero fill left shift 5 << 1 0101 << 1 1010 10 << 2 Signed right shift 5 >> 1 0101 >> 1 0010 >> Zero fill right shift | 5 >>> 1 0101 >>> 1 0010 2 >>> 74 PHAN ĐÌNH LONG 123 08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB







```
JS Switch
       switch(expression) {
         case x:
           // code block
            break;
          case y:
            // code block
            break;
          default:
            // code block
       }
                                                                      78
                                                         PHAN ĐÌNH LONG
08/2019
                                      LẬP TRÌNH WEB
              KHOA CNTT - NLU
                                                                      123
```



# JS For Loop



- For loop execute a block of code a number of times.
- Syntax

```
for (for init; for condition; for update) {
 // code block to be executed
```

- For Each: loops through the values of an iterable objects (ex: array)

```
for (variable of iterable) {
 // code block to be executed
```

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

79

79



### JS While Loop



- While loop execute a block of code until condition is false.
- Syntax

```
while (condition) {
 // code block to be executed
```

80 123

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG



# JS do while Loop



- Do while loop similar while loop but do while loop will execute the code block once, before checking condotion.
- Syntax

```
do {
 // code block to be executed
while (condition);
```

81

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

81



# JS Function (Method)



- Define:

```
function name(parameter1, parameter2, ...) {
  // code here
```

```
var name = function (parameter1, parameter2, ...) {
  // code here
```

82

08/2019 LẬP TRÌNH WEB KHOA CNTT - NLU

PHAN ĐÌNH LONG



### **Data Structures: Arrays**



- Arrays are used to store multiple values in a single variable.

```
var phone = ["Apple", "Sam Sung", "Sony"];
```

- JS Arrays can store any valid data type.

```
var data = ["Tí", "Nguyễn Vannw", 20];
```

- JS Arrays don't limit to storing data.

83

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

83



#### **Arrays**



- Declaration:
  - Way 1: Use [] instead.
  - Way 2: new Array().

```
// Good
var data = [];
var data = new Array();
                             // Bad
```

- Access data: You access an array element by referring to the **index number**. Array indexes start with 0.

```
var cars = ["Saab", "Volvo", "BMW"];
var myCar = cars[2];
```

08/2019 KHOA CNTT - NLU LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

84



#### **Arrays**



- Add data:
  - Use the Array.push() method to add items to the end of an array.

```
var data = [];
data.push("Lemon"); //or
data[1]="Apple";
```

3/3

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

85

85



#### **Arrays**



- Remove data:
  - Method Array.pop() to remove the last item in the array and returns the removed item.
  - Method Array.shift() to remove the first item in the array and returns the removed item.
  - Array.unshift() adds an item to the beginning of an array. Array.unshift() returns the new size of the array.

```
var data = [];
data.push("Lemon"); //or
data[1]="Apple";
var item = data.shift();//remove Lemon, return lemon
var size = data.unshift();//add Lemon, return 2
var item1 = data.pop(); //remove Apple, return Apple
```

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

86



### **Arrays**



- Edit data:
  - To edit data we use index num to accsess.
  - Index number: start: 0; end: n-1.

```
var data = [];
data.push("Lemon"); //or
data[1]="Apple";
data[1]="Orange"; // change Apple → Orange
```

- Array size:
  - **Array.length** will return the number of items currently in the array.

36

87

08/2019

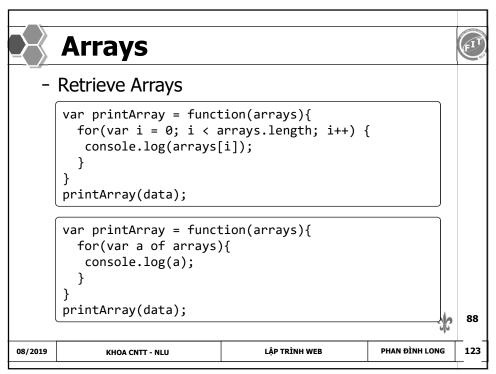
KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

87





#### **Arrays**



- Print array or convert array to string
  - The Array.toString() method will take an array and convert it into a string, with items separated by commas.
  - The console.log(array) method will show all data of array to brower console;

20

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

89

89



### **Data Structures: Object**



90

123

- JS Object is a special data type that can contain multiple data type.
- Data of JS Objcect is called properties.
- Define:
  - We use "{}" to create Object.
  - A properties of the object have 2 parts: "name:value"

```
var person = {
  firstName: "Tí",
  lastName: "Nguyễn Văn",
  age: 20,
  class: "CNTT"
```

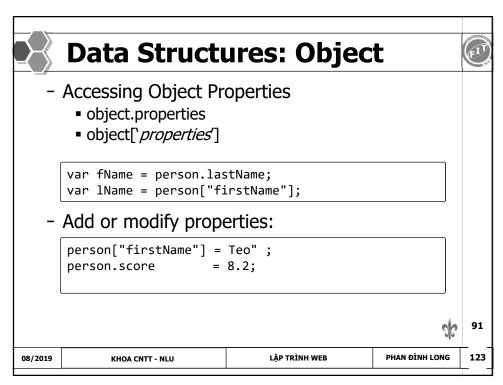
KHOA CNTT - NLU

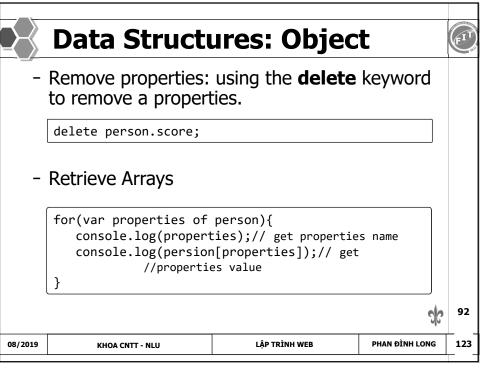
LẬP TRÌNH WEB

PHAN ĐÌNH LONG

90

08/2019







### JS HTML DOM



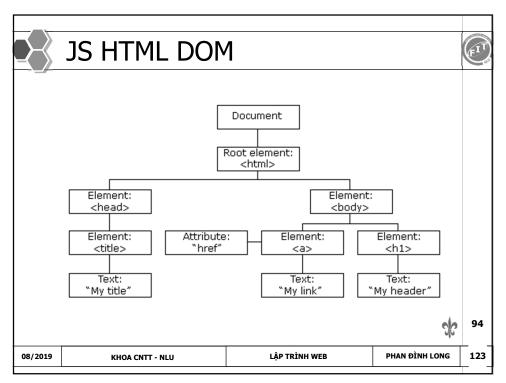
- Working with Element Nodes: Each element on your HTML page has an associated element node in the *Document Object Model (DOM)*.
- The DOM can be accessed using Javascript through the document object.
- document object behaves like any other Javascript object, and has many different properties and methods that are useful in accessing nodes in the DOM.

93

019 KHOA CNTT - NLU LẬP TRÌNH WEB PH

PHAN ĐÌNH LONG 123

93





### JS HTML DOM



- The HTML DOM is a standard **object** model and **programming interface** for HTML. It defines:
  - The HTML elements as objects
  - The properties of all HTML elements
  - The methods to access all HTML elements: add, get, modify, remove.
  - The events for all HTML elements



95

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

95



### **DOM Methods**



- Access element
  - document.querySelector(): return the **first** element it finds with the selector provided. If not found return null.
  - document.getElementById(id): get element with an id attribute.
  - document.getElementsByTagName(tag): get element with an html name tag.
  - document.getElementsByClassName(class): get element with class attribute.



96

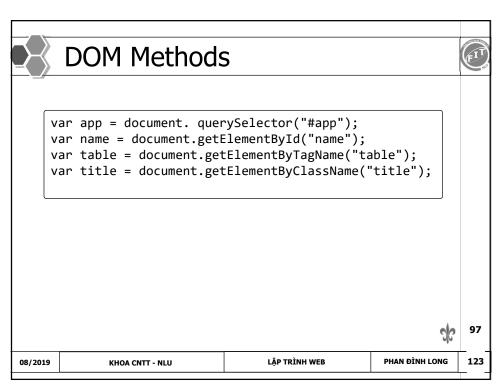
08/2019

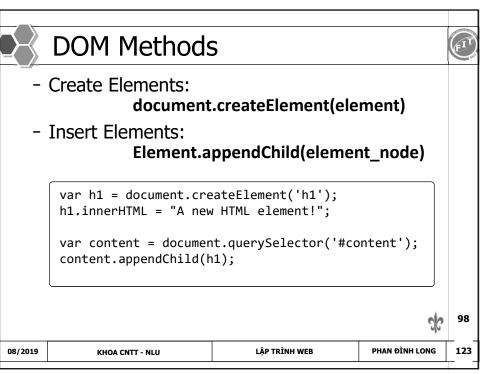
KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123







#### **DOM Methods**



 Remove Element: To remove an HTML element, you must know the parent of the element:

```
<div id="div1">
  This is a paragraph.
  This is another paragraph.
</div>
<script>
var parent = document.getElementById("div1");
var child = document.getElementById("p1");
parent.removeChild(child);
</script>
var child = document.getElementById("p1");
                                                      99
child.parentNode.removeChild(child);
     KHOA CNTT - NLU
                           LÂP TRÌNH WEB
                                           PHAN ĐÌNH LONG
                                                      123
```

99



### **DOM Modifying Attributes**



- Add, Remove, and View Element Attributes:
  - Element.getAttributeNames()
  - Element.getAttribute(name)
  - Element.setAttribute(name, value)
  - Element.removeAttribute(name)

100

08/2019



### JS Mouse Event



						-
		Event	Description			
	onclick The event occurs when the us			the user clicks on an element		
	onco	ontextmenu	The event occurs when the user right-clicks on an element to oper menu			
	ondi	olclick	he event occurs when the user double-clicks on an element			
	onm	ousedown	The event occurs when the user presses a mouse button over an element			
	onmouseenter The event occurs when the pointer is moved onto an element				ent	
	onmouseleave The event occurs when the pointer is moved out of an element				nent	
onmousemove The event occurs when the pointer is moving			the pointer is moving while it is over	while it is over an element		
	onmouseout onmouseover onmouseup		The event occurs when a user moves the mouse pointer out of an element, or out of one of its children			
			The event occurs when the pointer is moved onto an element, or onto one of its children			
			The event occurs when a user releases a mouse button over an element			101
08/2019		кно	A CNTT - NLU	LẬP TRÌNH WEB	PHAN ĐÌNH LONG	123

101



# Jquery



- jQuery is JavaScript library.
- The purpose of jQuery is to make it much easier to use JavaScript on your website.
- The jQuery library contains the following features:
  - HTML/DOM manipulation
  - CSS manipulation
  - HTML event methods
  - Effects and animations
  - AJAX
  - Utilities

26

102

08/2019 KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG



### jQuery Syntax



- \$(selector).action()
  - "\$": character to access jQuery.
  - \$(*selector*): to access to selector maching.
  - action(): method of jQuery.

```
$(this).show() - show the current element.
$("a").hide() - hides all  elements.
$(".item").hide() - hides all elements with class="item".
$("#item").hide() - hides the element with id="item".
```

103

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

103



### jQuery Running



- To run jQuery we must reference to jQuery lib.
- 2 way to reference:
  - jQuery CDN: include cdn link.

<script src="https://code.jquery.com/jquery3.4.1.min.js"></script>

- jQuery lib:
  - Download lester version from jQuery homepage <u>https://jquery.com/download/.</u>
  - Extrax and link lib file to html page.

<script src="jquery-3.4.1.min.js"></script>



104

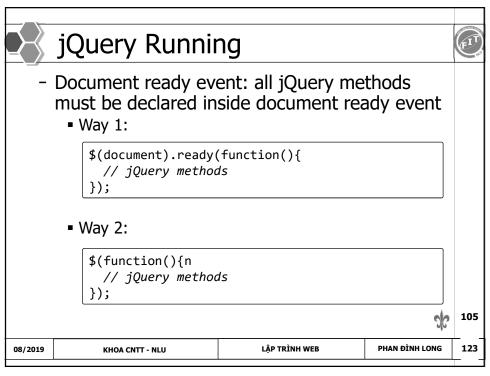
123

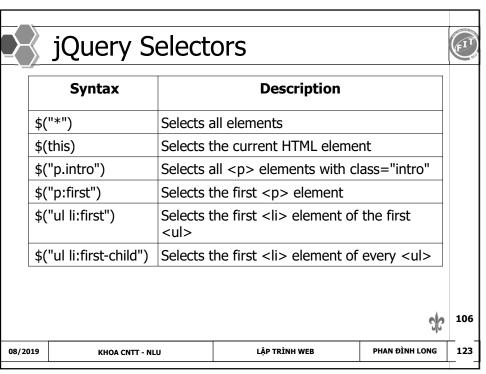
08/2019

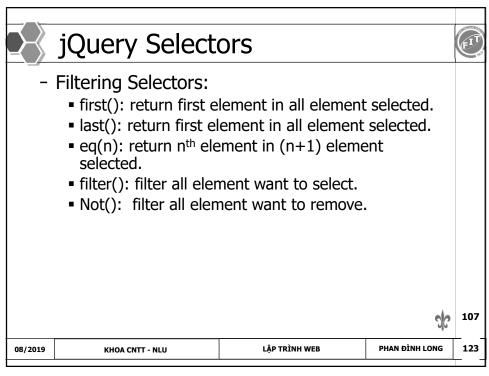
KHOA CNTT - NLU

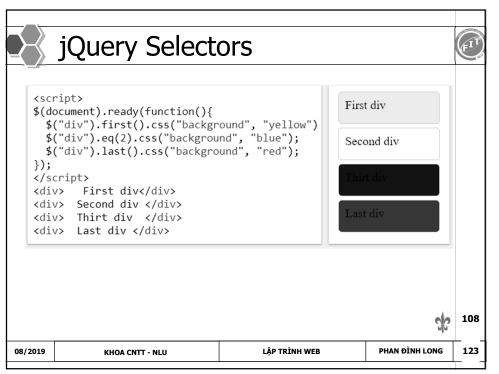
LẬP TRÌNH WEB

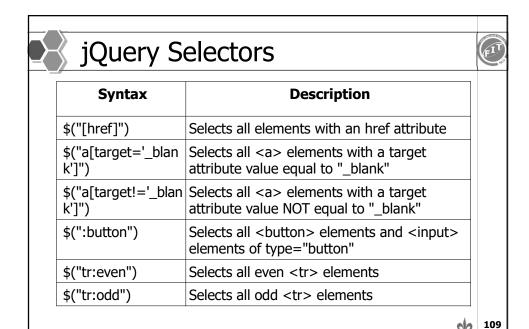
PHAN ĐÌNH LONG











LẬP TRÌNH WEB

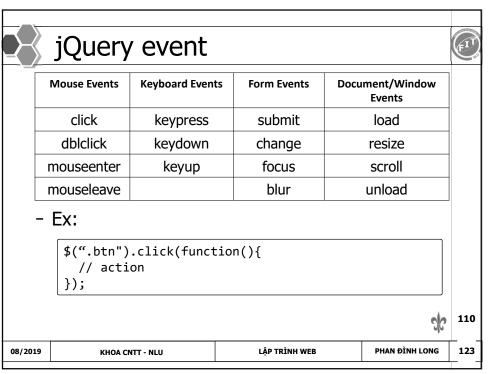
PHAN ĐÌNH LONG

123

109

08/2019

KHOA CNTT - NLU





### jQuery - HTML



- Get Content:
  - text(): Get the text content of selected elements
  - html(): Get the content of selected elements (including HTML markup)
  - val(): Get the value of form fields
  - attr("attributeName"): Get value of html element attribute.

111



#### jQuery - HTML



- Get Content:
  - text("text"): Set the text content of selected elements
  - html("html"): Set the content of selected elements (including HTML markup)
  - val("value"): Set the value of form fields
  - attr("attributeName", "value"): Set value for html element attribute.

```
$("#test").text("This is some bold text in a paragraph.")
$("#test").html("This is some <b>bold</b> text in a paragraph.")

112

08/2019 KHOA CNIT-NLU LÂP TRÌNH WEB PHAN ĐÌNH LONG 123
```



# jQuery - HTML



- Add Elements
  - Append: Inserts content at the end of the selected elements
  - prepend(): Inserts content at the beginning of the selected elements
  - after(): Inserts content after the selected elements
  - before(): Inserts content before the selected elements

```
$("p").append("Appended text.");
$("p").prepend("Prepended text.");
$("p").after("Text after");
$("p").before("Text before");
113
```

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

113



### jQuery - HTML



- Remove Elements
  - remove(): Removes the selected element (and its child elements)
  - empty(): Removes the child elements from the selected element

```
$("#content").remove();
$("#content").empty();
```

20

114

123

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG



### jQuery



- Get, Set CSS Classes
  - addClass(): Adds one or more classes to the selected elements
  - removeClass(): Removes one or more classes from the selected elements
  - toggleClass(): Toggles between adding/removing classes from the selected elements

```
$("h1, h2, p").addClass("bg-success border");
$("h1, h2, p").removeClass("bg-success border");
$("h1, h2, p").toggleClass("bg-success border");
```

115

08/2019

9 KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

123

115



### jQuery



- Get, Set CSS Classes
  - css("propertyname"): return the value of a CSS property
  - css("propertyname","value"): set a CSS property

```
$("p").css("background-color");
$("p").css("background-color", "yellow");
```

20

116

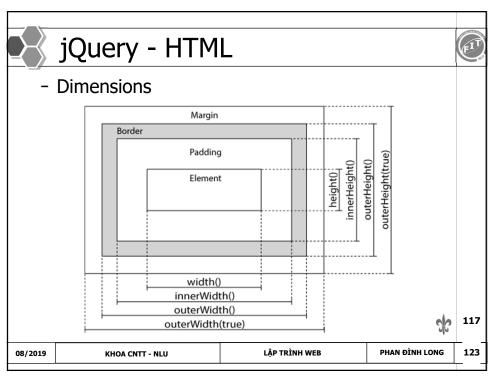
123

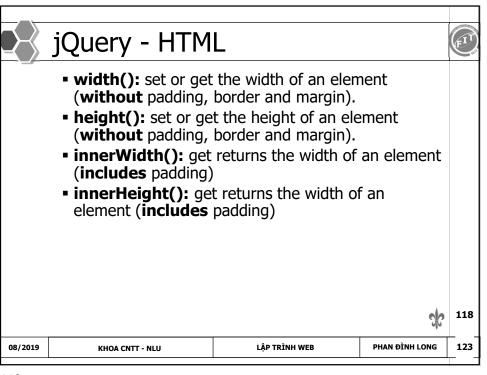
08/2019 KH

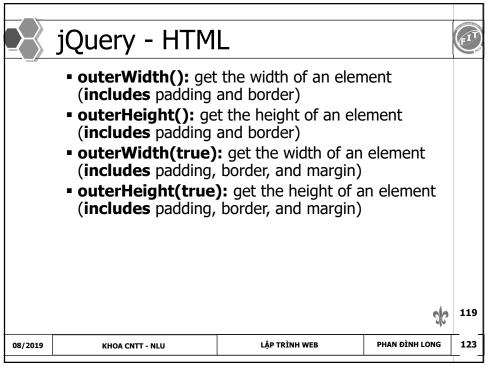
KHOA CNTT - NLU

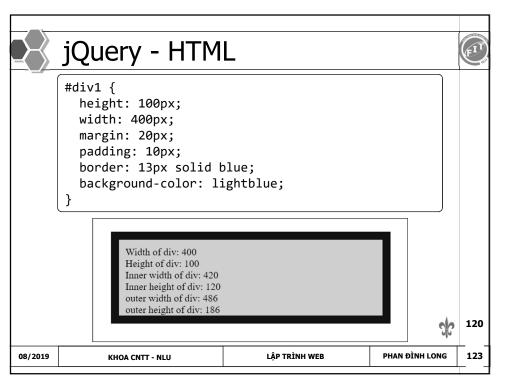
LẬP TRÌNH WEB

PHAN ĐÌNH LONG











### jQuery - Traversing



- HTML DOM is designed like a tree in data structure. Every HTML elements has a parent element and childrent element. Traversing is understood as moving through each element (parent and child).



121

PHAN ĐÌNH LONG 123

121



### jQuery - Traversing



- Traversing method:

KHOA CNTT - NLU

- parent(): returns a direct parent of this element.
- children(): returns all direct children of this element.
- find(): returns descendant elements of the selected element (search in all children).

LẬP TRÌNH WEB

- next(): return element next to this element.
- nextAll(): return all next element.
- prev() return element previous to this element.
- prevAll(): return all previous element.

122

08/2019

KHOA CNTT - NLU

LẬP TRÌNH WEB

PHAN ĐÌNH LONG

