



First Nations  
Technology Council

# Focus Web Developer

Week 2 – Lesson 1

# Lesson Topics

- Review
- HTML 5 Practice Activities



# Review

- HTML (structure)
- CSS (style)
- JS (functionality)
  - It can run a program/script in the background
  - It can change HTML and CSS to create a “dynamic” webpage

# What's next?

- To effectively make JavaScript programs, you **need** to have a strong command of HTML and CSS
- More practice on HTML and CSS

# What's next

Try to stay organized throughout the course so you can reference your materials later if you need to. Here are some recommendations:

- ✓ Create a new folder for every week with subfolders for every day and activity
  - Ex: the next activity will be located in Week 2 → Day 1 → Activity 1
- ✓ Make a bookmarks folder to keep any useful websites for later use and **name them so you know what they are!**
- ✓ In general, more folders = more organized = easier to find things

# HTML Boiler Plate

```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <link rel = "stylesheet" href="styles.css"> <!--link your stylesheet file-->
6      <title>This is a title</title>
7  </head>
8
9  <body>
10     <!--this is where the content goes-->
11  </body>
12
13 </html>
14
```

No matter what website you are making this information will **always** be present!



# Activity 1 Introduction

Create the following webpage using **only** HTML

The screenshot shows a website layout. At the top left is a red, stylized logo with the word "delidded". To its right is a black navigation bar with the text "Home", "About", "Services", "Contact", and "Logout". Below the logo is a section with the heading "Delidded Web Design" in large, bold, black font. Underneath it is the text "Making great sites since: 2018". Further down is a section titled "Our services" with a bulleted list: "HTML", "CSS", and "And *Javascript* programming". A yellow callout box with a black border and arrow points from the text "This image is a hyperlink that opens in the **same** tab with some **alternate text**" to the "delidded" logo.

This image is a hyperlink that  
opens in the **same** tab with  
some **alternate text**

# Activity 1 Introduction

In **addition** to the <tags> in your boilerplate, here are **some** of the <tags> to create this webpage:

- <a> - Defines a hyperlink
- <h1> - Defines HTML heading <h1> is the biggest <h6> is the smallest
- <p> - Defines a paragraph
- <h2> - Defines HTML heading <h1> is the biggest <h6> is the smallest
- <ul> - Defines an unordered list
- <li> - Defines a list item

**Note:** this page has no <header> or <footer> tags

For a full list of HTML <tags> aka "elements" go here:

<https://www.w3schools.com/TAGs/>

# HTML <tags> aka elements

Things to remember about HTML <tags> aka “elements”

- HTML elements have properties that determine what can be done with it
- All HTML elements have **different attributes** that you can change
  - Attributes provide additional information about elements
  - Attributes are always specified in the start tag
  - Attributes usually come in name/value pairs like: name="value"

# HTML Element Attributes

Here are the **attributes** of `<a>`:

Attribute	Value	Description
<code>download</code>	<code>filename</code>	Specifies that the target will be downloaded when a user clicks on the hyperlink
<code>href</code>	<code>URL</code>	Specifies the URL of the page the link goes to
<code>hreflang</code>	<code>language_code</code>	Specifies the language of the linked document
<code>media</code>	<code>media_query</code>	Specifies what media/device the linked document is optimized for
<code>ping</code>	<code>list_of_URLs</code>	Specifies a space-separated list of URLs to which, when the link is followed, post requests with the body ping will be sent by the browser (in the background). Typically used for tracking.
<code>referrerpolicy</code>	<code>no-referrer</code> <code>no-referrer-when-downgrade</code> <code>origin</code> <code>origin-when-cross-origin</code> <code>unsafe-url</code>	Specifies which referrer to send
<code>rel</code>	<code>alternate</code> <code>author</code> <code>bookmark</code> <code>external</code> <code>help</code> <code>license</code> <code>next</code> <code>nofollow</code> <code>noreferrer</code> <code>noopener</code> <code>prev</code> <code>search</code> <code>tag</code>	Specifies the relationship between the current document and the linked document
<code>target</code>	<code>_blank</code> <code>_parent</code> <code>_self</code> <code>_top</code>	Specifies where to open the linked document
<code>type</code>	<code>media_type</code>	Specifies the media type of the linked document

this is the  
name of  
the attribute

How to use this attribute:  
`<a target="_blank"></a>`

These are the  
possible values for  
this attribute

# Activity 1 Instructions

Create the following webpage using **only** HTML

The screenshot shows a website with the following structure:

- Logo:** A red, stylized logo with the word "delidded" in lowercase.
- Title:** **Delidded Web Design**
- Text:** Making great sites since: 2018
- Section:** Our services
  - HTML
  - CSS
  - And *Javascript* programming

## Requirements:

1. Use only HTML to make identical format
2. Save the file in your Activity 1 folder and name it “index.html”
3. Use <title>Activity 1</title> in the head
4. Image hyperlinked to <https://www.delidded.com> in the **same tab**
5. Image alternate text: “Delidded Logo”
6. Image from <https://www.delidded.com/logo.png>

## Hints:

Some HTML <tags> to be used are: <a>, <h1>, <p>, <h2>, <ul>, <li>

## Solution:

- you can find the full solution on the next page. Please **DO NOT** check this site until you have completely done this on your own

# Activity 1 Solution

```
<!doctype html>
<html>
<head>
    <meta charset="UTF-8">

    <title>Delidded Web Design</title>
</head>

<body>

<a href="https://www.delidded.com">
    
</a>

<h1>Delidded Web Design</h1>

<p>
    Making <strong>great</strong> sites since:
    <br>
    2018
</p>

<h2>Our services</h2>

<ul>
    <li>HTML</li>
    <li>CSS</li>
    <li>And <em>Javascript</em> programming</li>
</ul>

</body>
</html>
```

# Activity 2 Introduction

Create the following webpage using **only** HTML

Want a free quote? [Contact us](#)

**FREE Code Sample (written in CSS)**

```
/* This code makes all h1 tags red */
h1 {
    color: red;
}
```

Hyperlink to that opens in a **new tab**

Normally this code would change the color of the <h1> tags, but here it doesn't...why?

# Activity 2 Introduction

In **addition** to the <tags> in your boilerplate, here are **some** of the <tags> to create this webpage:

- <a> - Defines a hyperlink
- <h2> - Defines HTML heading <h1> is the biggest <h6> is the smallest
- <pre> - Defines preformatted text

**Note:** this page has no <header> or <footer> tags

For a full list of HTML <tags> aka "elements" go here:

<https://www.w3schools.com/TAGs/>

# HTML <pre> element

The <pre> element “defines preformatted text”

- The text will be displayed exactly as written in the HTML source code

**HTML Code**

```
<pre>  
Text in a pre element  
is displayed in a fixed-width  
font, and it preserves  
both      spaces and  
line breaks  
</pre>
```

**What you see in the web browser**

Text in a pre element  
is displayed in a fixed-width  
font, and it preserves  
both spaces and  
line breaks

# Activity 2 Instructions

Create the following webpage using **only** HTML

## Requirements:

1. Use only HTML to make identical format
2. Save the file in your Activity 2 folder and name it “index.html”
3. Use <title>Activity 2</title> in the head
4. Contact Us hyperlink in a **new tab** to:

<https://www.delidded.com/html-css-practice-test/>

Want a free quote? [Contact us](#)

## FREE Code Sample (written in CSS)

```
/* This code makes all h1 tags red */  
h1 {  
    color: red;  
}
```

## Hints:

Some of the HTML <tags> to be used are: <a>, <h2>, <pre>

## Solution:

- you can find the full solution on the next page. Please **DO NOT** check this site until you have completely done this on your own

# Activity 2 Solution

```
1  <!doctype html>
2  <html>
3  <head>
4      <meta charset="UTF-8">
5
6      <title>Delidded Web Design</title>
7  </head>
8
9  <body>
10
11 <p>
12     Want a free quote?
13     <a href="https://www.delidded.com/html-css-practice-test/" target="_blank">Contact us</a>
14 </p>
15
16     <h2>FREE Code Sample (written in <em>CSS</em>)</h2>
17
18 <pre>
19 /* This code makes all h1 tags red */
20 <h1 {
21     color: red;
22 }
23 </pre>
24
25 </body>
26 </html>
```



# Activity 3 Introduction

Create the following webpage using **only** HTML

<b>March Bills</b>		
	<b>Price</b>	<b>Due Date</b>
Phone	\$50	March 1st
Car insurance	\$100	March 5th
Internet	\$70	March 10th

This is a table

# Activity 2 Introduction

In **addition** to the <tags> in your boilerplate, here are **some** of the <tags> to create this webpage:

- <h2> - Defines HTML heading <h1> is the biggest <h6> is the smallest
- <table> - Defines a table
- <tr> - Defines a row in a table
- <th> - Defines a header cell in a table
- <td> - Defines a cell in a table

**Note:** this page has no <header> or <footer> tags

For a full list of HTML <tags> aka "elements" go here:

<https://www.w3schools.com/TAGs/>

# HTML <table> element

The <table> is used to create a table and is often used with <tr>, <th>, <td>

**HTML Code**

```
<table>
  <tr>
    <th>Month</th>
    <th>Savings</th>
  </tr>
  <tr>
    <td>January</td>
    <td>$100</td>
  </tr>
  <tr>
    <td>February</td>
    <td>$80</td>
  </tr>
</table>
```

**What you see in the web browser**

Month	Savings
January	\$100
February	\$80

**How do you enter data  
into the table?  
Horizontally or  
vertically?**

# Activity 3 Instructions

Create the following webpage using **only** HTML

<b>March Bills</b>		
	<b>Price</b>	<b>Due Date</b>
Phone	\$50	March 1st
Car insurance	\$100	March 5th
Internet	\$70	March 10th

## Requirements:

1. Use only HTML to make identical format
2. Save the file in your Activity 3 folder and name it “index.html”
3. Use <title>Activity 3</title> in the head

## Hints:

Some HTML <tags> to be used are: <h2>, <table>, <tr>, <th>, <td>

## Solution:

- you can find the full solution in the following pages. Please **DO NOT** check this site until you have completely done this on your own

# Activity 3 Challenge Instructions

If you want more of a challenge for Activity 3 try the following (use the same HTML file, but make a CSS file named styles.css and link it to your HTML)

## March Bills

	<b>Price</b>	<b>Due Date</b>
Phone	\$50	March 1st
Car insurance	\$100	March 5th
Internet	\$70	March 10th

### Challenges:

Using **only** your CSS file do the following:

- make the font in the table headers blue
- make the font in the first row red
- make the font in the second row green
- make the font in the third row orange
- make "March 5<sup>th</sup>" italics
- put a solid black border of 1px around the outside of the table only
- Put a dotted green border around the cells containing Price and Due Date
- Put a dotted red border around all other cells
- Color the background of the "Internet" cell pink

# Activity 3 Solution

```
1  <!--this is the answer for Activity 3-->
2  <!doctype html>
3  <html>
4  <head>
5      <meta charset="UTF-8">
6      <title>March Bills</title>
7  </head>
8  <body>
9  <h2>March Bills</h2>
10 <table>
11 <tr>
12     <th></th>
13     <th>Price</th>
14     <th>Due Date</th>
15 </tr>
16
17 <tr>
18     <td>Phone</td>
19     <td>$50</td>
20     <td>March 1st</td>
21 </tr>
22
23 <tr>
24     <td>Car insurance</td>
25     <td>$100</td>
26     <td>March 5th</td>
27 </tr>
28
29 <tr>
30     <td>Internet</td>
31     <td>$70</td>
32     <td>March 10th</td>
33 </tr>
34 </table>
35 </body>
36 </html>
```

# Activity 4

Imagine you have to make a portfolio website to “advertise” yourself.

Make a sketch showing roughly what the format of the website will look like. Be sure to include the following:

- Header
- Footer
- Body
- Links (in a navigation bar or just hyperlinks) to different pages such as contact, about me, my work

Respond in Slack with a picture of your sketch!

# Gathering Time



Gathering Time is a time for check-in.



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# Class Wrap-up

How was your day?

How's your website coming along?

Are you excited to add some colour?



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