

# Lesson - 2

HTML 5. Base Elements.  
Part 1

# Lesson Plan

- 1. Review Homework**
- 2. Lists**
- 3. Hyperlinks**
- 4. Working with images**
- 5. Text formatting**
- 6. Homework**

# Homework review

## **Required Elements:**

- 1. Headings**
- 2. Lists**
- 3. Hyperlinks**

# Headings

## Why Headings Are Important ?

- Search engines use the headings to index the structure and content of your web pages.
- Users often skim a page by its headings. It is important to use headings to show the document structure.
- `<h1>` headings should be used for main headings, followed by `<h2>` headings, then the less important `<h3>`, and so on.

**Heading 1**

**Heading 2**

**Heading 3**

**Heading 4**

**Heading 5**

**Heading 6**

# Lists

## Lists types:

- 1. Ordered: <ol>** - Ordered lists are lists in which the order of the items *does* matter
- 2. Unordered: <ul>** - Unordered lists are used to mark up lists of items for which the order of the items doesn't matter

# List nesting?

**It is perfectly ok to nest one list inside another one. You might want to have some sub-bullets sitting below a top level bullet.**

# Hyperlinks

## What is a hyperlink?

- One of the most important feature of WEB
- They allow us to link our documents to any other document
- Just about any web content can be converted to a link, so that when clicked

```
<p>I'm creating a link to  
  <a href="https://www.mozilla.org/en-US/">the Mozilla homepage</a>.  
</p>
```

# Links

## Additional attribute:

-title: this is intended to contain supplementary useful information about the link, such as what kind of information the page contains, or things to be aware of.

```
<p>I'm creating a link to  
<a href="https://www.mozilla.org/en-US/"  
  title="The best place to find more information about Mozilla's  
    mission and how to contribute">the Mozilla homepage</a>.  
</p>
```



# Document fragments

It is possible to link to a specific part of an HTML document (known as a **document fragment**), rather than just to the top of the document. To do this you first have to assign an `id` attribute to the element you want to link to. It normally makes sense to link to a specific heading, so this would look something like the following:

```
<h2 id="Mailing_address">Mailing address</h2>
```

Then to link to that specific `id`, you'd include it at the end of the URL, preceded by a hash/pound symbol, for example:

```
<p>Want to write us a letter? Use our <a  
href="contacts.html#Mailing_address">mailing address</a>.</p>
```

# Absolute vs Relative

- **absolute URL:** Points to a location defined by its absolute location on the web, including **protocol** and **domain name**. So for example, if an `index.html` page is uploaded to a directory called `projects` that sits inside the root of a web server, and the web site's domain is `http://www.example.com`, the page would be available at `http://www.example.com/projects/index.html`

```
<p>A link to my <a href="http://www.example.com/pdfs/project-brief.pdf">project brief</a>.</p>
```

- **relative URL:** Points to a location that is *relative* to the file you are linking from

```
<p>A link to my <a href=" ../pdfs/project-brief.pdf">project brief</a>.</p>
```

# Images on the web

In order to put a simple image on a webpage, we use the `<img>` element. This is an **empty element** (meaning that it has no text content or closing tag) that requires a minimum of one attribute to be useful — `src` (sometimes spoken as its full title, *source*).

The `src` attribute contains a path pointing to the image you want to embed in the page, which can be a relative or absolute URL, in the same way as `href` attribute values in `<a>` elements.

**!Important:** Don't forget to add **alt attribute**

# Text formatting

## Emphasis and Importance:

1. `<em>` - in HTML we use it to emphasis text
2. `<strong>` - We use it to make text bold

## Additional formatting elements:

1. `<dl>`, `<dt>`, `<dd>` - Definition Lists
2. `<q>`, `<blockquote>` - Block level or Inline Quotations

# References

- Text Formatting Fundamentals - [https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction\\_to\\_HTML/HTML\\_text\\_fundamentals](https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/HTML_text_fundamentals)
- Advanced text formatting - [https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction\\_to\\_HTML/Advanced\\_text\\_formatting](https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/Advanced_text_formatting)
- Hyperlinks - [https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction\\_to\\_HTML/Advanced\\_text\\_formatting](https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/Advanced_text_formatting)
- Images - [https://developer.mozilla.org/en-US/docs/Learn/HTML/Multimedia\\_and\\_embedding/Images\\_in\\_HTML](https://developer.mozilla.org/en-US/docs/Learn/HTML/Multimedia_and_embedding/Images_in_HTML)

## Recommended online resources

1. <https://www.geeksforgeeks.org/html-introduction/>
2. [https://www.w3schools.com/html/html\\_intro.asp](https://www.w3schools.com/html/html_intro.asp)
3. [https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction\\_to\\_HTML](https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML)

# Homework

- 1. Follow this [link](#) to get text of letter**
- 2. Create index.html file with basic template**
- 3. Add the following css from this [link](#)**
- 4. Add required markup to match image, if you can't open it from presentation, open with this [link](#)**

[illegible]

## It should be downloadable and resizable

# Step by step guide

Markup from source the source file, a letter, that should match following image

Block/structural semantics:

- You should structure the overall document with an appropriate structure including doctype, and `<html>`, `<head>` and `<body>` elements.
- The letter in general should be marked up with a structure of paragraphs and headings, with the exception of the below points. There is one top level heading (the "Re:" line) and three second level headings.
- The semester start dates, study subjects and exotic dances should be marked up using an appropriate list type.
- The two addresses should be put inside `<address>` elements. Each line of the address should sit on a new line, but not be in a new paragraph.

Inline semantics:

- The names of the sender and receiver (and "Tel" and "Email") should be marked up with strong importance.
- The four dates in the document should be given appropriate elements containing machine-readable dates.
- The first address and first date in the letter should be given a class attribute value of "sender-column"; the CSS you'll add later will then cause these to be right aligned, as should be the case in a classic letter layout.
- The five acronyms/abbreviations in the main text of the letter should be marked up to provide expansions of each acronym/abbreviation.
- The six sub/superscripts should be marked up appropriately — in the chemical formulae, and the numbers 103 and 104 (they should be 10 to the power of 3 and 4, respectively).
- Try to mark up at least two appropriate words in the text with strong importance/emphasis.
- There are two places where a hyperlink should be added; add appropriate links with titles. For the location that the links point to, just use `http://example.com`.
- The university motto quote and citation should be marked up with appropriate elements