

# *ICT-Start – Session 01*

## Module 2: Creating static web pages using HTML5 and CSS3


### **A) Getting started with HTML**

**December 2022**

# Inspecting popular websites

# Basic website structure/skeleton

```
<!DOCTYPE html>
<head>
  <title>...</title>
</head>
<body>
  ...
</body>
</html>
```



Try it  
yourself!

&lt;html&gt;

&lt;head&gt;

&lt;title&gt;Page title&lt;/title&gt;

&lt;/head&gt;

&lt;body&gt;

&lt;h1&gt;This is a heading&lt;/h1&gt;

&lt;p&gt;This is a paragraph.&lt;/p&gt;

&lt;p&gt;This is another paragraph.&lt;/p&gt;

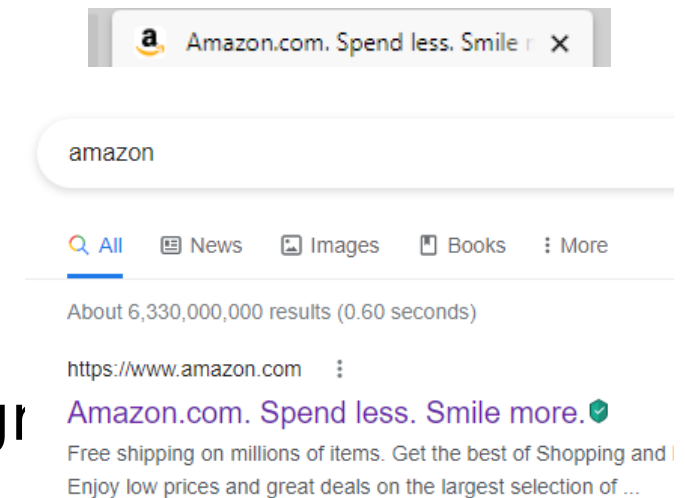
&lt;/body&gt;

&lt;/html&gt;



# Basic website structure/skeleton

- `<!DOCTYPE html>`
  - Tells the browser the type of document (HTML, PDF, ...)
- `<html>`
  - Also called the “root element”. The tag encloses the entire document.
- `<title>`
  - Title bar of the browser/tab,
  - Browser history
  - Heading of entries in search engines
- `<body>`
  - First thing what people using read-aloud programs
  - The “visible” part of the document (viewport)



# HTML Attributes

- Most of HTML Elements can have one or more **attributes**
- lang attribute
  - Language of the webpage or element
  - Helps search engines to display results in searcher's linguistic preference
  - Used by screen readers and braille translators

```
1  <!DOCTYPE html>
2  <html lang="en" dir="ltr">
3    <head>
4      <meta charset="utf-8">
5      <title></title>
6    </head>
7    <body>
8
9    </body>
10 </html>
```

# Atom's autocomple

## feature

- `dir` attribute
  - Text direction of an element's content
  - **ltr**: left-to-right
  - **rtl**: right-to-left
  - **auto**: lets the browser decide based on the content

```
1 <!DOCTYPE html>
2 <html lang="en" dir="ltr">
3   <head>
4     <meta charset="utf-8">
5     <title></title>
6   </head>
7   <body>
8
9   </body>
10 </html>
```

# <meta> Element

- meta: Data describing other data

- Examples:

```
<meta charset="UTF-8">
```

```
<meta name="description" content="ICT Start">
```

```
<meta name="keywords" content="HTML,CSS,JavaScript">
```

```
<meta name="author" content="DLH">
```

- **Analogy:** credits in a movie such as the name of the director

```
<meta name="director" content="James Cameron">
```

```
1 <!DOCTYPE html>
2 <html lang="en" dir="ltr">
3   <head>
4     <meta charset="utf-8">
5     <title></title>
```



# <meta> charset attribute

```
<meta charset="utf-8">
```

- When browser receives the HTML document, it only reads a stream of Bytes (sequence of 0's and 1's)
- These numbers have a **meaning** and must be translated to **text**
- A right set of characters (**charset**) must be chosen
- Dominant charset of the internet: UTF-8 (Unicode standard)
- American standard: ASCII

# Getting started

# Wrong charset...

```
1  ✓ <!DOCTYPE html>
2  ✓ <html><head><meta charset="ASCII"></head>
3  ✓   <body>
4      <p lang="fr">Un paragraphe rédigé en français.</p>
5      </body>
6  </html>
```

Un paragraphe rÃ©digÃ© en franÃ§ais.

# Content separation

# Content separation - Header

<body>

<h1>Header 1.</h1>

<h2>Header 1.1</h2>

<h3>Header 1.2.1</h3>

<h2>Header 1.2</h2>

<h2>Header 1.2</h2>

<h2>Header 1.3</h2>

<h3>Header 1.3.1</h3>

<h4>Header 1.3.1.1</h4>

<h2>Header 1.4</h2>

</body>

**Header 1.**

**Header 1.1**

**Header 1.2.1**

**Header 1.2**

**Header 1.2**

**Header 1.3**

**Header 1.3.1**

**Header 1.3.1.1**

**Header 1.4**

# Content separation - Paragraphs

`<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus pharetra imperdiet scelerisque. </p>`

`<p>Nulla tempor sem quis nunc pulvinar tincidunt. Praesent neque dui, rutrum sit amet placerat ullamcorper, luctus nec augue. Morbi gravida orci et felis dapibus scelerisque. </p>`

`<p>Maecenas elit dui, venenatis venenatis eros ut, pulvinar dignissi</p>`

# Content separation - Paragraphs

Lorem ipsum dolor sit amet, consectetur adipiscing elit.  
Phasellus pharetra imperdiet scelerisque.

Nulla tempor sem quis nunc pulvinar tincidunt. Praesent neque  
dui, rutrum sit amet placerat ullamcorper, luctus nec augue.  
Morbi gravida orci et felis dapibus scelerisque.

Maecenas elit dui, venenatis venenatis eros ut, pulvinar dignissi

# Content separation – Line breaks

```
<body>
```

```
  This is a <br>  
  text with <br>  
  multiple <br>  
  line breaks.
```

```
</body>
```

This is a  
text with  
multiple  
line breaks.



# Content separation – Separation lines

<body>

Lorem ipsum dolor sit amet, consectetur  
adipiscing elit. Phasellus pharetra  
imperdiet scelerisque.

<hr>

Nulla tempor sem quis nunc pulvinar  
tincidunt. Praesent neque dui, rutrum sit  
amet placerat ullamcorper, luctus nec  
augue. Morbi gravida orci et felis dapibus  
scelerisque.

<hr>

Maecenas elit dui, venenatis venenatis  
eros ut, pulvinar dignissi

</body>

# Content separation – Separation lines

- Thematic separations

Lorem ipsum dolor sit amet, consectetur adipiscing elit.  
Phasellus pharetra imperdiet scelerisque.

---

Nulla tempor sem quis nunc pulvinar tincidunt. Praesent  
neque dui, rutrum sit amet placerat ullamcorper, luctus nec  
augue. Morbi gravida orci et felis dapibus scelerisque.

---

Maecenas elit dui, venenatis venenatis eros ut, pulvinar  
dignissi

# Content separation – Blockquotes

<p> A quotation from a Harry Potter book:

<blockquote cite="https://parade.com/955587/kelseypelzer/harry-potter-quotes/">

“Your mother died to save you. If there is one thing Voldemort cannot understand, it is love. Love as powerful as your mother's for you leaves it's own mark. To have been loved so deeply, even though the person who loved us is gone, will give us some protection forever.” – Albus Dumbledore

</blockquote>

</p>

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# Content separation - Details

## ► Digital Learning Hub (DLH)

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The Digital Learning Hub (DLH) was created in the context of continuous vocational training within the Ministry of National Education, Children and Youth. The DLH is a learning structure that offers short and hands-on training courses in the fields of computer science for professionals to further educate themselves, improve their skills or switch careers.



```
<details>
```

```
<summary>Digital Learning Hub (DLH)</summary>
```

```
<p>
```

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```
</p>
```

```
</details>
```

# Exercices

- ...