

Introduction to HTML

Prof. Fabio Ciravegna
Dipartimento di Informatica
Università di Torino
fabio.ciravegna@unito.it







HTML (Hypertext Markup Language)

- HTML è un linguaggio per la descrizione del contenuto e della struttura di pagine web
- HTML è un linguaggio di markup: usa dei tag per
 - Specificare la struttura della pagina (titoli, sezioni, paragrafi, ...)
 - Specificare il tipo di contenuto rappresentato dagli elementi della pagina (per es., per dire che un elemento è un link ipertestuale)
 - Eventualmente aggiungere informazioni utili alla visualizzazione su browser della pagina stessa (in disuso)
- La versione più recente di HTML è HTML5
- Documentazione e tutorials sul sito web http://www.w3schools.com/html/ default.asp

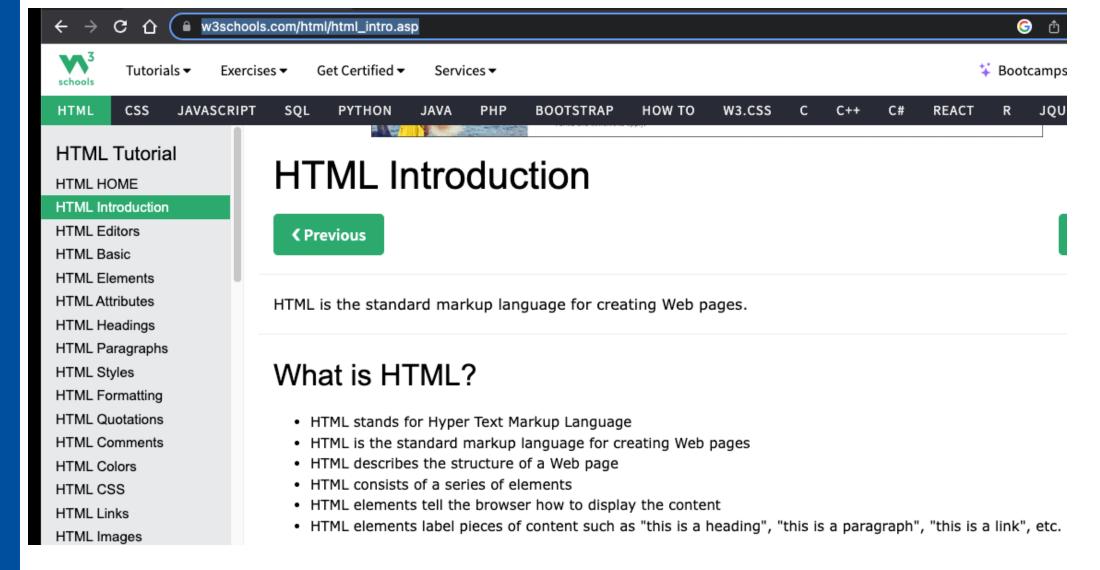


HTML – visualizzazione sul browser

- Il browser scarica il documento HTML e ne interpreta i tag in modo sequenziale dall'inizio alla fine per visualizzarlo a video
- Il browser visualizza la pagina applicando:
 - regole di presentazione di default, associate ai tag, oppure
 - regole specificate in un foglio stile che dice come visualizzare il contenuto dei tag (lo vedremo)
- Per ora noi lavoriamo senza fogli stile e usiamo solo le regole di visualizzazione di default degli elementi HTML



Material from <u>W3Schools.com</u>





HTML

- HTML is the standard markup language for creating Web pages
 - HTML stands for Hyper Text Markup Language
 - HTML is the standard markup language for creating Web pages
 - HTML describes the structure of a Web page
 - HTML consists of a series of elements
 - HTML elements tell the browser how to display the content
 - HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.



A Simple HTML Document

```
Example
 <!DOCTYPE html>
 <html>
 <head>
 <title>Page Title</title>
 </head>
 <body>
 <h1>My First Heading</h1>
 My first paragraph.
 </body>
 </html>
  Try it Yourself »
```

Click on the image to try it yourself



- The <!DOCTYPE html> declaration defines that this document is an HTML5 document
- The <html> element is the root element of an HTML page
- The <head> element contains meta information about the HTML page
- The <title> element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)
- The **<body>** element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The <h1> element defines a large heading
- The element defines a paragraph



What is an HTML Element?

- An HTML element is defined by a start tag, some content, and an end tag:
 - <tagname> Content goes here... </tagname>
 - The HTML element is everything from the start tag to the end tag:
 - <h1>My First Heading</h1>
 - My first paragraph.

Start tag	Element content	End tag
<h1></h1>	My First Heading	
	My first paragraph.	
	none	none

Note: Some HTML elements have no content (like the

Empty elements do not have an end tag! (they are however better written as

These elements are called empty elements.

Empty elements do not have an end tag! (they are however better written as

These elements are called empty elements.

These elements are called empty elements.

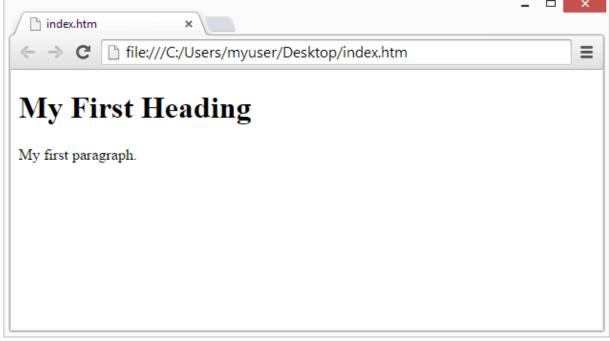


Web Browsers

- The purpose of a web browser
 - Chrome, Edge, Firefox, Safari
 - is to read HTML documents and display them correctly

A browser does not display the HTMI tags

 but uses them to determine how to display the document







HTML Page Structure

<hea< th=""><th>ad></th><th></th></hea<>	ad>	
<	<title>Page title</title>	
<th>ead></th> <th></th>	ead>	
<box< th=""><th>dy></th><th></th></box<>	dy>	
	<h1>This is a heading</h1>	
	This is a paragraph.	
	This is another paragraph.	
<td>ody></td> <td></td>	ody>	



Editing HTML Documents

- You can use
 - Webstorm (suggested) https://www.jetbrains.com/webstorm/
 - IntelliJ Ultimate (same as Webstorm with less obvious features)
- For both you can have a free student licence







Projects

> SSH

Customize

Learn WebStorm

Plugins

✓ Remote Development Beta

JetBrains Space

Q Search projects

New Project

Open

Get from VCS

×

mobility_server

~/Documents/Programmes/Android/Torino/BHF/USFD_Version/mobility_server

Fabio_Ciravegna

~/Documents/WWW/Torino/Fabio_Ciravegna

Torino Mobility Server

~/Documents/Programmes/Android/Torino/Server/Torino Mobility Server

new_website, Amilcare...

~/Documents/WWW/Sheffield/Fabio Ciravegna Official Site/new_website

Fabio_Ciravegna

~/Documents/WWW/Sheffield/Fabio Ciravegna Official Site/new_website/Fabio_Ciravegna

Week 3

~/Documents/Teaching/Sheffield/COM3504-6504 Intelligent Web/COM3504 Slides/Week 3 C...

package-lock

/private/var/folders/1n/6y0jk6955k9688y75p6gs7lr0000gp/T/package-lock.json

NA new_website, Amilcare...

~/Documents/WWW/Fabio Ciravegna Official Site/new_website

OTCameraE

~/Documents/Programs/Android/OTCameraE/OTCameraE

ws watchServer

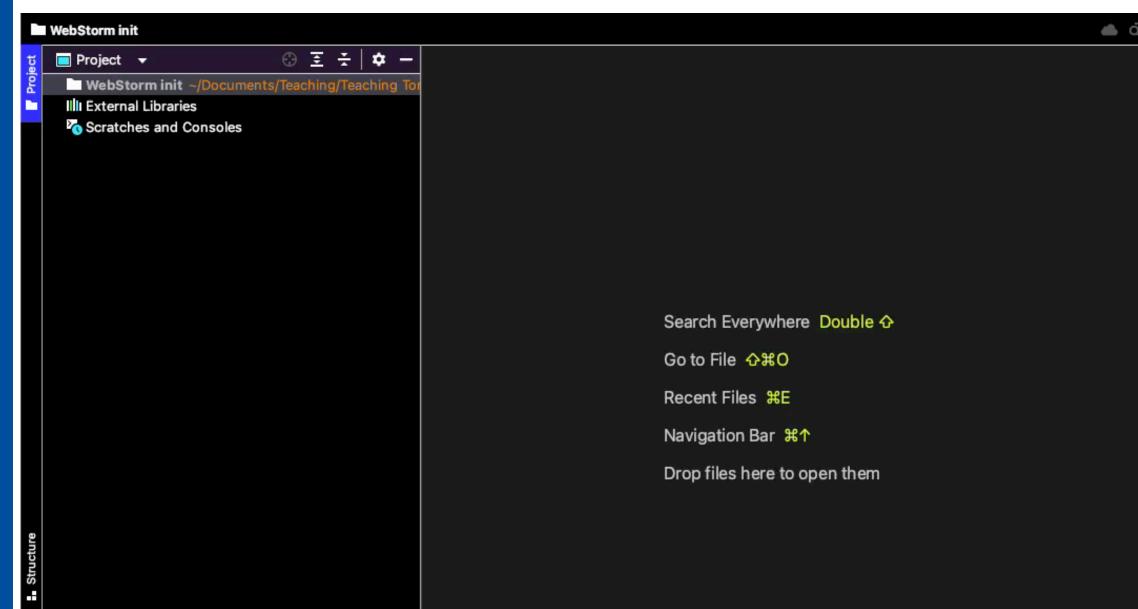
~/Documents/Programs/Android/watchServer

empty server for certhot



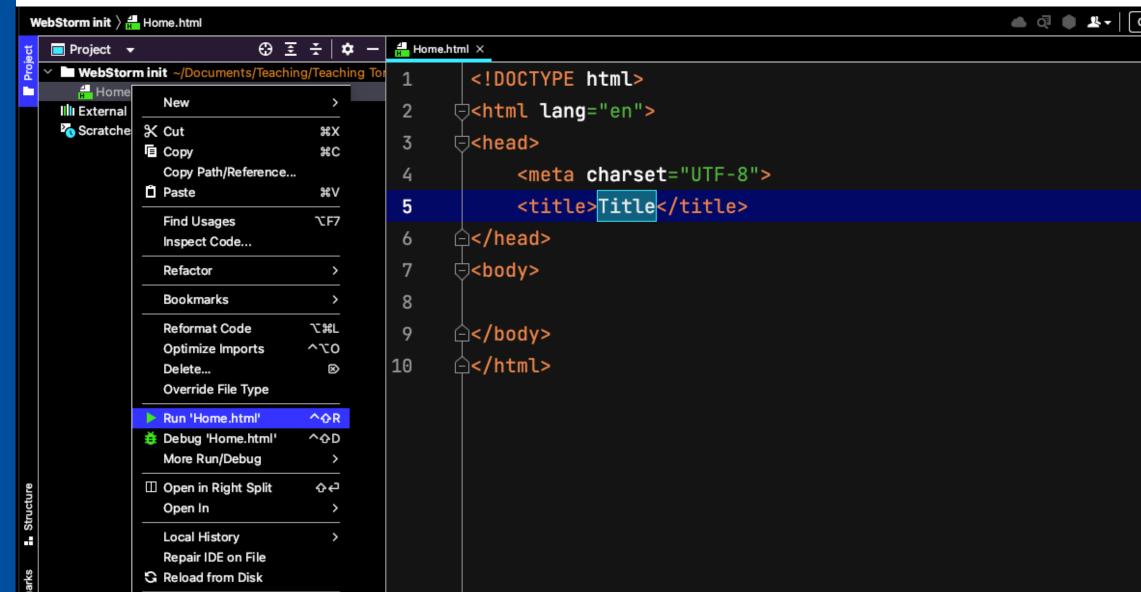


Creating an HTML file





View the HTML Page in Your Browser



HTML Tutorial

css

HTML HOME

N³

schools

HTML

HTML Introduction

HTML Editors

HTML Basic

HTML Elements

HTML Attributes

HTML Headings

HTML Paragraphs

HTML Styles

HTML Formatting

HTML Quotations

HTML Comments

HTML Colors

HTML CSS

HTML Links

HTML Images

HTML Favicon

HTML Page Title

HTML Tables

HTML Lists

HTML Block & Inline

HTML Classes

Services ▼ Tutorials ▼ Exercises ▼ Get Certified ▼

w3schools.com/html/html_editors.asp



JAVASCRIPT

PYTHON SQL

JAVA

PHP

BOOTSTRAP

ноw то

W3.CSS

C++

C#

REACT

Bootcamps

JQUERY

W3Schools Online Editor - "Try it Yourself"

With our free online editor, you can edit the HTML code and view the result in your browser.

It is the perfect tool when you want to **test** code fast. It also has color coding and the ability to save and share code will others:

Example

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>
<h1>This is a Heading</h1>
This is a paragraph.
</body>
</html>
```

Try it Yourself »



- All HTML documents must start with a document type declaration: <!DOCTYPE html>.
- The HTML document itself begins with <html> and ends with </html>.
- The visible part of the HTML document is between <body> and </body>.



The <!DOCTYPE> Declaration

- The <!DOCTYPE> declaration represents the document type, and helps browsers to display web pages correctly.
 - It must only appear once, at the top of the page (before any HTML tags).
 - It is not case sensitive
- The <!DOCTYPE> declaration for HTML5 is:
 - <!DOCTYPE html>



HTML Headings

- They are the titles of a document's sections
 - NOT to be used to make the font bigger!!!
- HTML headings are defined with the <h1> to <h6> tags.
 - <h1> defines the most important heading.
 - <h6> defines the least important heading

Example

```
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
```

Try it Yourself »

HTML Paragraphs and Links

HTML paragraphs are defined with the tag

Example

```
This is a paragraph.
This is another paragraph.
```

Try it Yourself »

 HTML links are defined with the <a> tag + an href attribute for the link

Example

```
<a href="https://www.w3schools.com">This is a link</a>
```

Fabio Ciraveana. Università di Torin



HTML Images

- HTML images are defined with the tag.
 - The source file (src), alternative text (alt), width, and height are provided as attributes

Example

```
<img src="w3schools.jpg" alt="W3Schools.com" width="104" height="142">
```

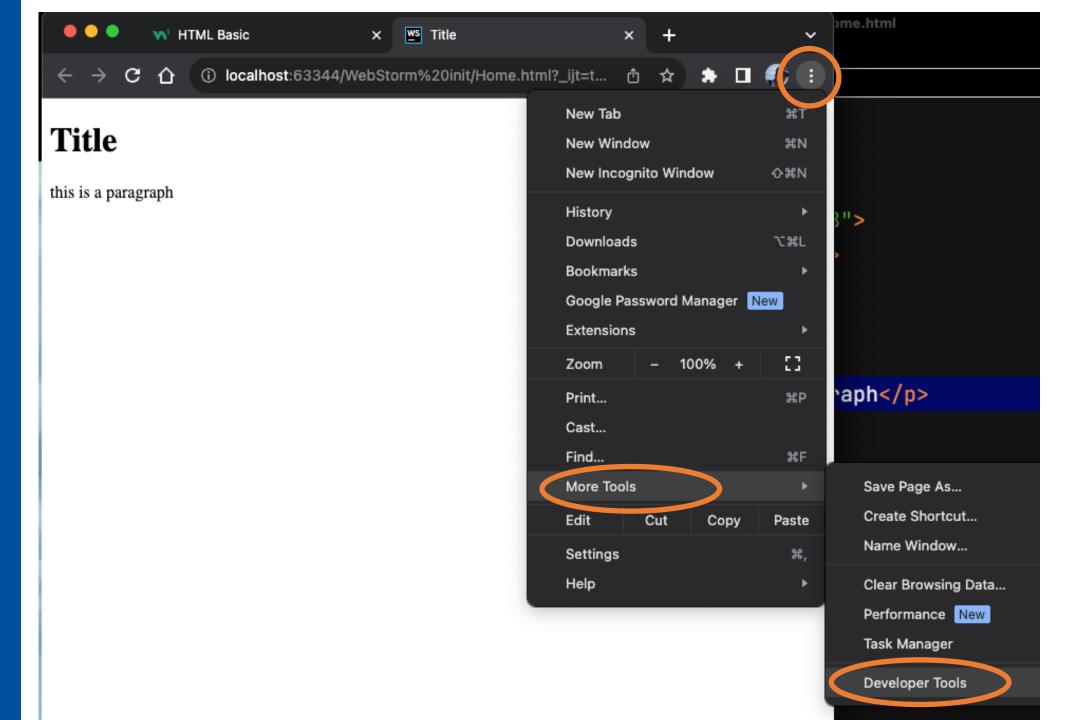
Try it Yourself »



to View HTML Source in the Browser

- You must use Google's Chrome in this module
 - Firefox is ok
 - Avoid using other browsers



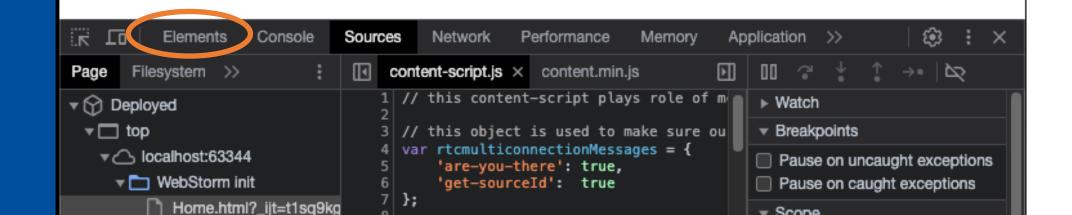




Title

this is a paragraph

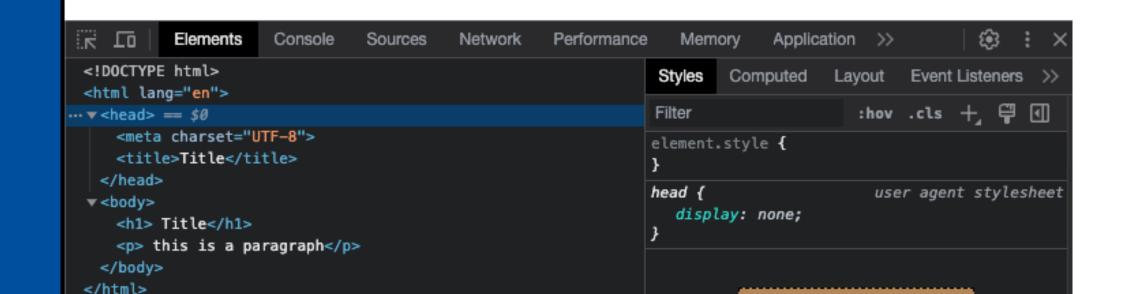
This is the Javascript Debugger Select Elements (bottom left)



100dillost:00044j 110botolilli7020liliq110liloliltilli1_jt=till



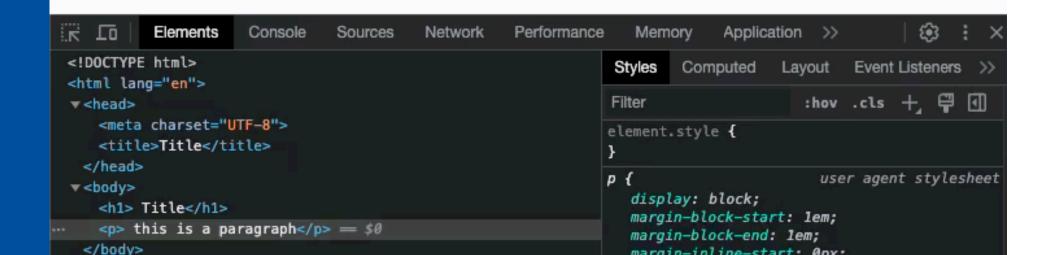
this is a paragraph





Title

this is a paragraph





Nested HTML Elements

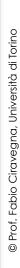
- HTML elements can be nested (this means that elements can contain other elements).
- All HTML documents consist of nested HTML elements.
 - The following example contains four HTML elements (<html>, <body>, <h1> and):

Example

```
<!DOCTYPE html>
<html>
<body>

<h1>My First Heading</h1>
My first paragraph.
</body>
</html>
```

Try it Yourself »





HTML Tutorial

HTML HOME

HTML Introduction

HTML Editors

HTML Basic

HTML Elements

HTML Attributes

HTML Headings

HTML Paragraphs

HTML Styles

HTML Formatting

HTML Quotations

HTML Comments

HTML Colors

HTML CSS

HTML Links

HTML Images

HTML Favicon

HTML Page Title

HTML Tables

HTML Lists

HTML Block & Inline

HTML Classes

HTML Id

HTML Iframes

HTML JavaScript

HTML File Paths

HTML Head

HTML Layout

Let's continue on the Website

HTML Responsive

HTML Computercode

HTML Semantics

HTML Style Guide

HTML Entities

HTML Symbols

HTML Emojis

HTML Charset

HTML URL Encode

HTML vs. XHTML

HTML Forms

HTML Forms

HTML Form Attributes

HTML Form Elements

HTML Input Types

HTML Input Attributes

HTML Input Form Attributes

• https://www.w3schools.com/html/html elements.asp



Questions?

