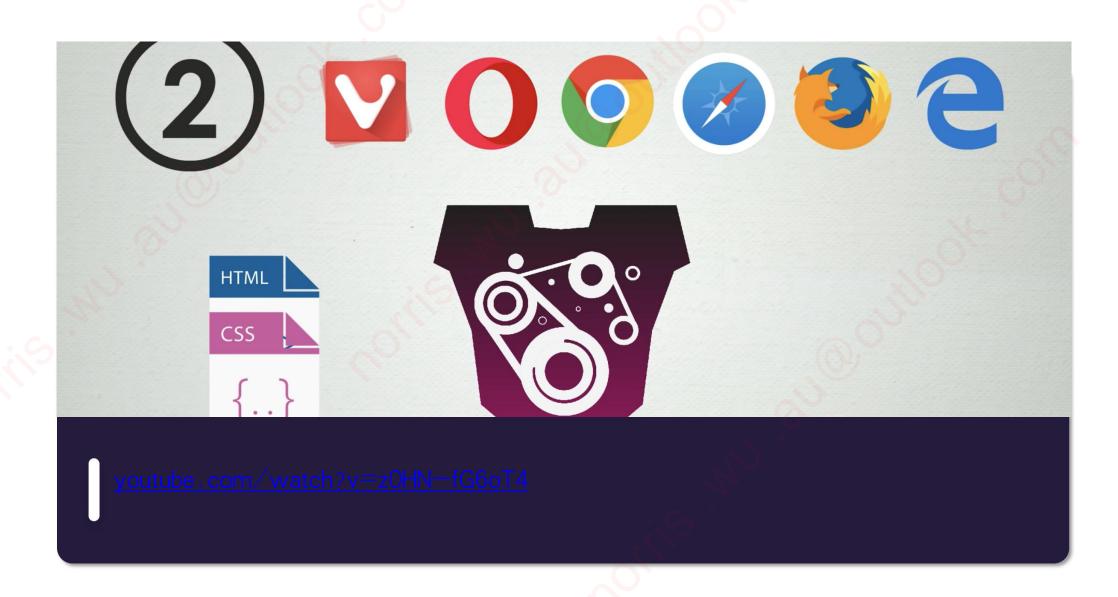




HTML 1



What Really Happens When You Visit a Website?



HTML

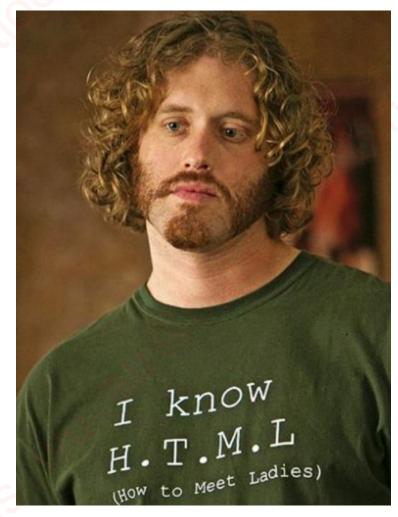
What is HTML (NOT How to Meet Ladies)

HyperText Markup Language

Key word Markup

Interview Tips: HTML is Not a programming language. Remove it from programming language

Tips: silicon valley s01e05 Scrum / Agile Other for ice breaking





HTML, CSS and JavaScript Explained



Your Best Friend



W3Schools: w3schools.com/html/

MDN: https://developer.mozilla.org/en-US/



HTML + CSS + JS



HTML: Content Structure

CSS: Content Presentation

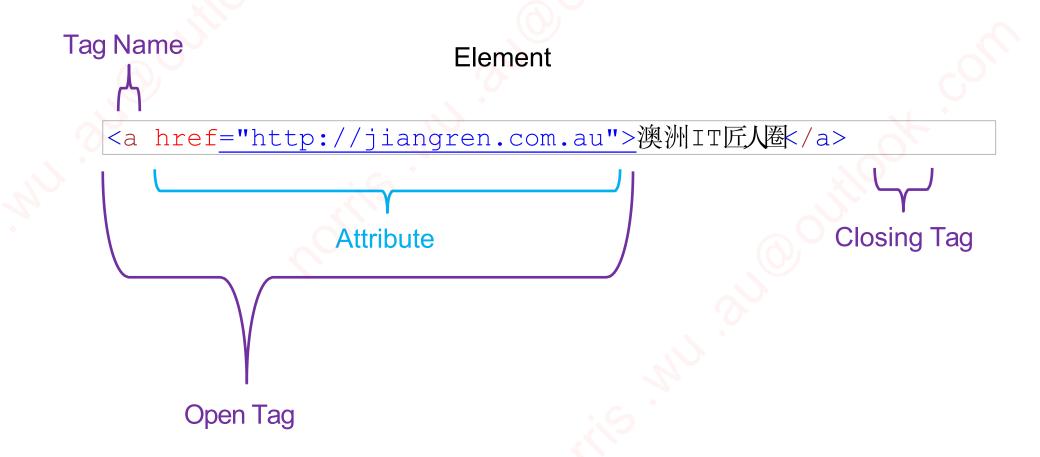
JS: Content Behaviour?

JS: Everything!





HTML structure and define content semantically.





HTML

. .



HTML structure and define content semantically.

Element

<h1> This is header </h1>

Opening Tag

Content

Closing Tag

Element with attribute

<h1 style="color:blue;"> This is header </h1>

Opening Tag Attribute

e Content

Closing Tag

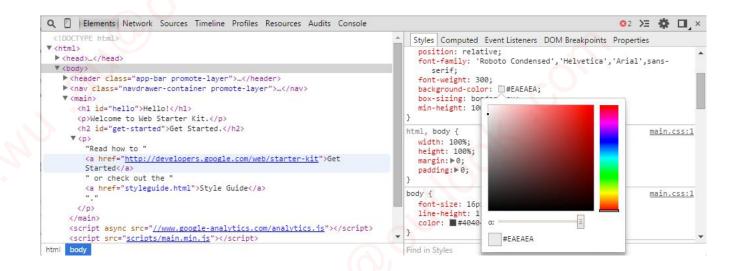


Chrome Dev Tool



How to Access DevTools





- Select the **Chrome menu** at the top-right of your browser window, then select **Tools** > **Developer Tools**.
- Right-click on any page element and select Inspect Element.

Npm install live-server -g

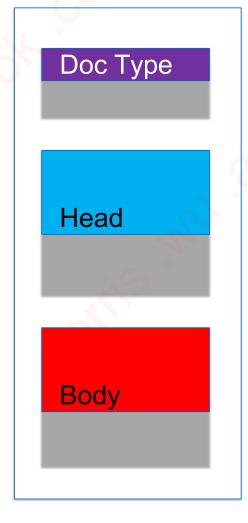


Personal Website

https://australiaitgroup.github.io/jrprofile/#homehttps://github.com/australiaitgroup/jrprofile



Structure



```
<!DOCTYPE html>
 <html>
 <head>
      <title>Title</
title>
 </head>
 <body>
         <div>Content</div>
 </body>
 </html>
```



HTML Basics



Doc Type

Head

Body

```
<!DOCTYPE html>
 <html>
 <head>
      <title>Title</
title>
 </head>
 <body>
         <div>Content</div>
 </body>
 </html>
```

Document Type Declaration

An instruction to the web browser about what version of HTML the page is written in.

Tips: Always on Top HTML5

```
<!DOCTYPE html>
```

HTML4

```
<!DOCTYPE HTML PUBLIC "-/,
W3C//DTD HTML 4.01//EN"

"http://www.w3.org/TR/
html4/strict.dtd">
```



HEAD



Doc Type

Head

Body

```
<!DOCTYPE html>
<html>
<head>
    <title>Title</title>
</head>

<body>
    <div>Content</div>
</body>
```

</html>

Head is used for the information about the document but **NOT** showing to user in the content area.

Title, Language, Viewport, Favicon CSS and Javascript etc.

e.g. <title>title on Browser</title> <meta charset="utf-8">

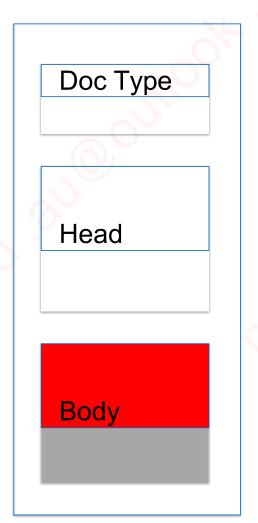
For SEO
Meta title
Meta Keywords
Meta Description



BODY



• •



```
<!DOCTYPE html>
  <html>
  <head>
      <title>Title</
title>
  </head>
  <body>
         <div>Content</div>
  </body>
  </html>
```

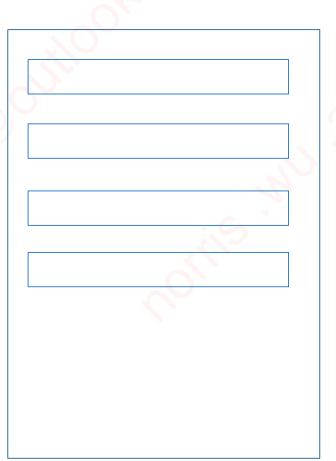
Body is the content of the all the elements to show.

```
<h1> This is Header </h1> <a href="http://
jiangren.com.au">匠人卷</a> <button type="button">Click Me! </button>
```

Block vs Inline



Block Elements



Inline Elements

Block 1 Block 2

Block 3 Block 4



Block Elements

Inline Elements

<div> <header> <main></main></header></div>	<nav> <section></section></nav>	<a> <but< th=""><th>on> </th><th><input/></th></but<>	on> 	<input/>
<footer> <h1-6></h1-6></footer>	 <	<label> </label>	<script></td><td><select></td></tr><tr><td><form> <hr></td><td></td><td><textarea> </td><td> <</td><td>(em> <i></td></tr></tbody></table></script>	

```
<canvas> <video> <output>  <dd>
<dl> <dt> <address> <article> <aside>
<blockquote> <figure> <figcaption>
<noscript> <fieldset>
```

Text — Header



Header is define structure the hierarchy of the content

This is h1 Header

This is h2 Header

This is h3 Header

This is h4 Header

This is h5 Header

This is h6 Header

```
<!DOCTYPE html>
     <html>
     <head>
     <!-- MetaData Here-->
     <title> </title>
     </head>
     <body>
    <h1> This is h1 Header </h1>
    <h2> This is h2 Header </h2>
    <h3> This is h3 Header </h3>
    <h4> This is h4 Header </h4>
    <h5> This is h5 Header </h5>
    <h6> This is h6 Header </h6>
17
     </body>
    </html>
19
```



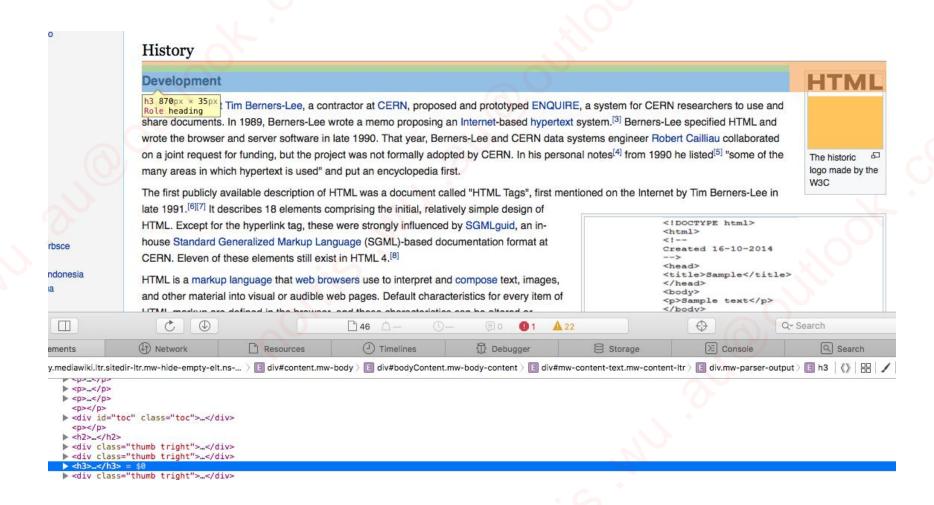
SEO

- Only one H1 for one page
- Page Structure
 - H1
 - H2
 - H2
 - H3
 - H3
 - H4
 - H4
 - H4

 - H5H5
 - H5
 - H6 • H6
 - H6

Text — Header

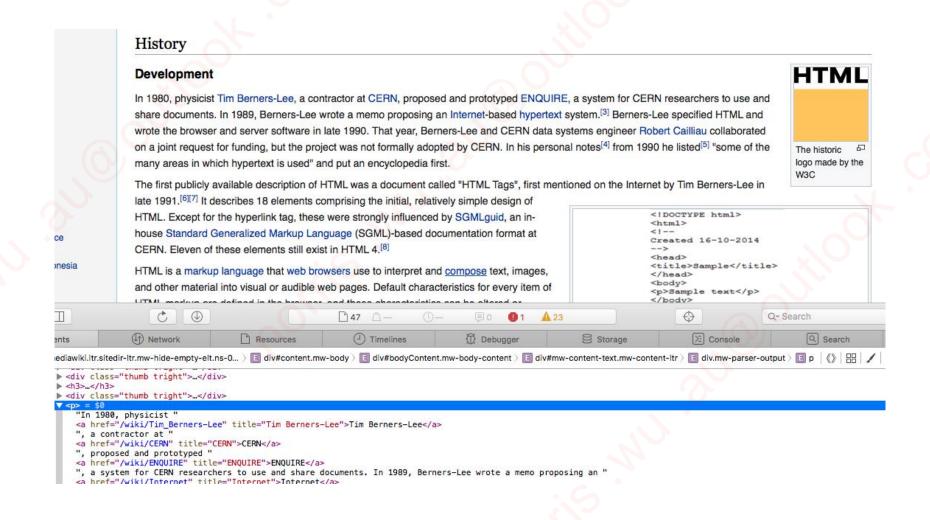






Paragraph







Text — Format element



```
<b> Bold text </b> <br>
<strong> Important text </strong> <br>
<i>> Italic text </i> <br>
<em> Emphasized text </em> <br>
<mark> Marked text </mark> <br>
<small> Small text </small> <br>
<del> Deleted text </del> <br>
<ins> Inserted text </ins> <br>
```

Bold text
Important text
Italic text
Emphasized text
Marked text
Small text
Deleted text
Inserted text



Paragraph

•



>

眼前不是我熟悉的双眼

陌生的感觉一点点

但是他的故事 我怀念

眼前不是我熟悉的双眼 陌生的感觉一点点 但是他的故事 我怀念

:p>

眼前不是我熟悉的双眼

阿生的感觉一点点

但是他的故事 我怀念

眼前不是我熟悉的双眼 陌生的感觉一点点 但是他的故事 我怀念



Span



span is a **inline** element by default.

```
Sources
first span second span third span
                                              Elements
                                   ▶
                                        test.html ×
                                       <body>
                                         <span>first span
                                         <span>second span</span>
                                         <span>third span</span>
                                    12
                                       </body>
                                    14
                                        Line 15, Column 8
```







```
UL = Unsorted List
```

OL = Ordered List

- test 1
- test 2
- test 3
- 1. test 1
- 2. test 2
- 3. test 3

Table

•



```
Firstname
 Lastname
 Age
Nicole
 Kidman
 50
Hugh
 Jackman
 48
```

Firstname Lastname Age

Nicole Kidman 50

Hugh Jackman 48

https://web.archive.org/



Block - < div >



div is a **block** element by default.

```
Elements
                                                            Sources
                                                                                    X
first div
                                     R
                                                                      >>
second div
                                    ▶
                                         test.html ×
third div
                                         <body>
                                           <div>first div</div>
                                           <div>second div</div>
                                           <div>third div</div>
                                     12
13
                                         </body>
                                     14 </html>
                                                                                     ▲
                                         Line 14, Column 8
```

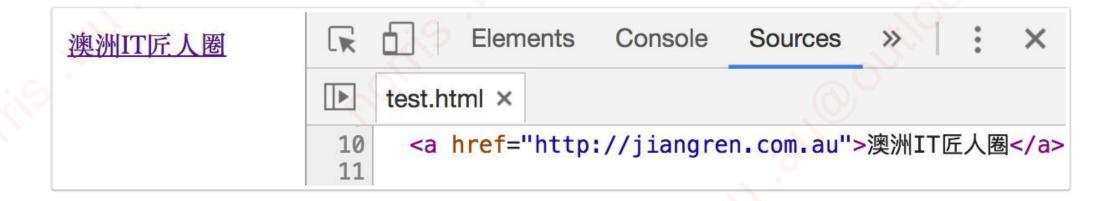






Link is a **inline** element by default

澳洲IT匠人圈





Link



澳洲IT匠人 圈

Value	Description
_blank	Opens the linked document in a new window or tab
_self	Opens the linked document in the same frame as it was clicked (this is default)
_parent	Opens the linked document in the parent frame
_top	Opens the linked document in the full body of the window
framename	Opens the linked document in a named frame



Img



```
| 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141
```

```
<img src="" alt="" />
    ./ vs ../ vs /
```



File Path



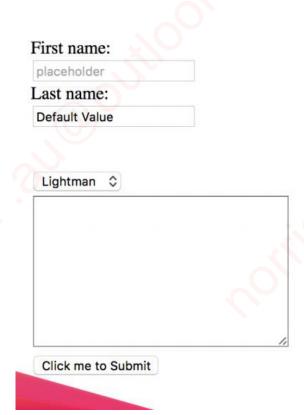
Path	Description
	picture.jpg is located in the same folder as the current page
	picture.jpg is located in the images folder in the current folder
	picture.jpg is located in the images folder at the root of the current web
	picture.jpg is located in the folder one level up from the current folder



Form & Input







```
<form action=""> <!--Ignore now-->
103
104
       First name: <br>
       <input type="text" name="firstname" placeholder="placeholder">
       <br>
       Last name:<br>
       <input type="text" name="lastname" value="Default Value" >
       <br>><br>>
110
111
       <br/>
112
113
       <select name="Tutor">
114
         <option value="Lightman">Lightman</option>
         <option value="Capsen">Capsen</option>
115
         <option value="Billy">Billy</option>
116
117
         <option value="Ding">Ding</option>
118
       </select>
119
     <br/>
120
      <textarea name="message" rows="10" cols="30" >
121
     </textarea>
122
     <br/>
123
       <input type="submit" value="Click me to Submit">
124
     </form>
125
```



HTML5 Semantic



```
<section>
 <article>
   <header>
     <h1> Frist Section Title</h1>
   </header>
   <detail>
     This is frist paragraph
      This is second paragraph </detail>
 </article>
</section>
```



HTML5 Semantic - img





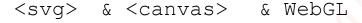
```
142
143
144
145
146
      <figure>
        <img src="./img/logo_imgfolder.png" \>
147
        <figcaption> A logo for Jiangren</figcaption>
148
149
      </figure>
150
151
152
153
154
155
156
```



HTML5 Media



```
<audio controls="controls">
    <source src="audio.mp3" type="audio/mp3" />
    <source src="audio.ogg" type="audio/ogg" />
    Your browser does not support the <audio> tag.
</audio>
<video controls="controls" width="400" height="300">
    <source src="movie.mp4" type="audio/mp4" />
    <source src="media.ogg" type="audio/ogg" />
    Your browser does not support the <video> tag.
</audio>
```





HTML5 Input



```
<form>
                                         174
                                                   Name: <input name="name" required placeholder="Your name" />
                                         175
                                                   <br/>
Name: Your name
                                                   Email: <input type="email" name="email" required placeholder="billy.lei@jiangren.com.au"/>
                                         176
                                         177
                                                   <br/>
Email: billy.lei@jiangren.com.au
                                         178
                                                   URL: <input type="url" name="url" placeholder="Homepage URL"/>
URL: Homepage URL
                                         179
                                                   <br/>
                                                   Age: <input type="number" name="age" min="18" max="99" />
Age:
                                         181
                                                   <br/>
                                                   Description: <textarea name="desc" placeholder="Describe yourself here..."></textarea>
            Describe yourself here...
                                         182
                                                   <br/>
Description:
                                         184
                                                   <input type="submit" value="Submit" />
 Submit
```



Comment



(!-- comment -->

Frist Section Title

This is frist paragraph

This is second paragraph

Second Section Title

This is frist paragraph

This is second paragraph

```
<!-- No Bdoy Can see me?-->
    <!-- User Can see you -->
83
    <div>
84
      <div>
85
86
        <!-- This is Frist Section -->
87
        <h4>Frist Section Title</h4>
        This is frist paragraph
88
        This is second paragraph
89
      </div>
90
91
      <div>
92
93
          <h4>Second Section Title</h4>
        This is frist paragraph
94
95
        This is second paragraph
96
      </div>
```



Can I Just Use html5 Elements?



Browser Compatibility

caniuse.com





HTML Best Practices



- HTML has a lot of similar elements. For example, p and div are very similar. But keep all the contents inside a meaningful tag.
- Indentation makes HTML more easy to read.
- Remembering some useful short-cut of few editors speeds up development.
- Syntax highlighted editor helps you to find the errors.

HTML Best Practices — Bad example



Free Style HTML

This is frist paragraph and I love freeStyle

This is second paragraph and I still love freeStyle





Lab Time: Build My Landing Page



html5up.net



HTML Interview Questions



goskills.com/Development/Articles/HTML-interview-questions-answers



Further Readings



- Code Academy: Introduction to HTML codecademy.com/learn/learn-html
- Interactive tutorials: learn-html.org
- BLACK VOODOO MAGIC: <u>codepen.io</u>