

HTML-5



HTML5

What is HTML5?

In simple HTML5 = HTML+CSS+JS

HTML5 has been updated with few NEW ELEMENTS, which makes HTML5 more efficient markup language. We can reduce our external efforts to use these NEW ELEMENTS. The Internet has changed since last development of HTML 4.01, So there are certain changes that have been made in browser to use it more correctly. Few OLD ELEMENTS have been removed, where few NEW ELEMENTS have been updated in HTML5.

HTML 5 Input Types

1. Input type color
 - a. Select your favorite color: `<input type="color" name="favcolor">
`
2. Input type date
 - a. Birthday: `<input type="date" name="bday">`
3. Input type datetime-local
 - a. Birthday (date and time): `<input type="datetime-local" name="bdaytime">`
4. Input type email
 - a. E-mail: `<input type="email" name="email">`
5. Input type month
 - a. Birthday (month and year): `<input type="month" name="bdaymonth">`
6. Input type number
 - a. Quantity (between 1 and 15): `<input type="number" name="quantity" min="1" max="15">`
 - b. `<input type="number" name="points" min="0" max="10" step="3">`
7. Input type range
 - a. Points: `0<input type="range" name="points" min="1" max="15">15`
8. Input type search
 - a. Search Google: `<input type="search" name="googlesearch">`
9. Input type telephone
 - a. Telephone: `<input type="tel" name="usrtel">
`

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10. Input type time

- a. Select a time: `<input type="time" name="usr_time">`

11. Input type URL

- a. Add your homepage: `<input type="url" name="homepage">`

12. Input type week

- a. Select a week: `<input type="week" name="year_week">`

13. Audio Search

- a. `<input type="text" x-webkit-speech/>`

14. Meter

- a. `<meter min="0" max="100" value="20">`

15. Mark

- a. Hello This is `<mark>HTML5</mark>`

HTML5 gives us input types that provide for more data-specific UI elements and native data validation. HTML5 has a total of 13 new input types:

- search
- email
- url
- tel
- datetime
- date
- month
- week
- time
- datetime-local
- number
- range
- color

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HTML 5 New Form Elements

1. <datalist>

```
<input list="browsers" name="browser">  
  
<datalist id="browsers">  
  
  <option value="Internet Explorer">  
  
  <option value="Firefox">  
  
  <option value="Chrome">  
  
  <option value="Opera">  
  
  <option value="Safari">  
  
</datalist>
```

2. <keygen>

```
Username: <input type="text" name="usr_name">  
  
Encryption: <keygen name="security">
```

3. <form>/<input> autocomplete

```
First name:<input type="text" name="fname" autocomplete="off"><br>  
  
Last name: <input type="text" name="lname"><br>  
  
E-mail: <input type="email" name="email" autocomplete="on"><br>
```

4. Input type <form>

```
<form action="demo_form.asp" id="form1">  
  
First name: <input type="text" name="fname"><br>  
  
<input type="submit" value="Submit">  
  
</form>
```

<p>The "Last name" field below is outside the form element, but still part of the form.</p>

```
Last name: <input type="text" name="lname" form="form1">
```

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5. Input formaction attribute

```
<input type="Submit" value="Login" formaction="adminlogin.jsp">
```

```
<input type="Submit" value="Login" formaction="employeeeelogin.jsp">
```

6. Input formnovalidate attribute

```
E-mail: <input type="email" name="userid"><br>
```

```
<input type="submit" value="Submit"><br>
```

```
<input type="submit" formnovalidate value="Submit without validation">
```

7. Input multiple attribute

```
<input type="file" multiple>
```

8. Input placeholder attribute

```
<input type="text" placeholder="Enter Name">
```

```
<input type="password" placeholder="Enter password">
```

9. Input required attribute

```
<input type="text" required>
```

10. Input step

```
<input type="number" step="3">
```

11. Video

```
<video width="300" height="200" controls>
```

```
<source src="movie.mp4" type="video/mp4">
```

Your browser does not support the video tag.

```
</video>
```

12. Audio

```
<audio controls>
```

```
<source src="sample.mp3" type="audio/mpeg">
```

```
</audio>
```

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13. Input type list

```
<input list="country">  
  
<datalist id="country">  
  
<option value="India">  
  
<option value="Australia">  
  
<option value="South Africa">  
  
<option value="Canada">  
  
<option value="America">  
  
</datalist>
```

14. Details summery

```
<details>  
  
<summary>This is the default content.</summary>  
  
<p>This is the main content, which will be shown.</p>  
  
</details>
```

15. Embed

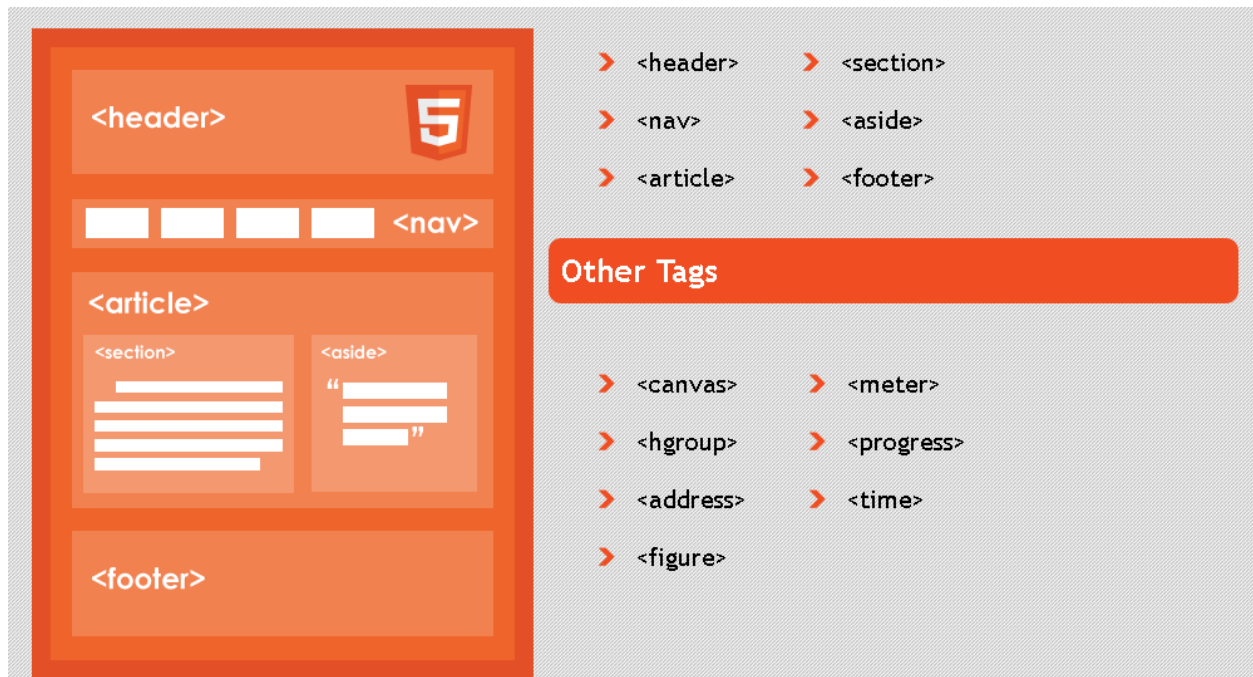
```
<embed src="FreedomGreen.swf"> </embed>
```

16. Svg

```
<svg> <polygon points="100,10 40,180 190,60 10,60 160,180"/> </svg>  
  
<svg><circle id="redcircle" cx="50" cy="50" r="50" fill="red" /></svg>  
  
<svg><rect id="redrect" width="300" height="100" fill="red" /></svg>  
  
<svg><line x1="0" y1="0" x2="200" y2="100" style="stroke:red;stroke-width:2"/></svg>
```

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Structure of Web page



Drag and Drop Images

```
<html> <head> <style>

#div1 {width:350px;height:70px;padding:10px;border:1px solid #aaaaaa;} </style>

<script>

function allowDrop(ev) {
    ev.preventDefault(); }

function drag(ev) {
    ev.dataTransfer.setData("Text",ev.target.id); }

function drop(ev) {
    ev.preventDefault();

    var data=ev.dataTransfer.getData("Text");

    ev.target.appendChild(document.getElementById(data)); }

</script> </head>
```

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```
<body>
```

```
<p>Drag the image into the rectangle:</p>
```

```
<div id="div1" ondrop="drop(event)" ondragover="allowDrop(event)"></div>
```

```
<br>
```

```

```

```
</body> </html>
```