

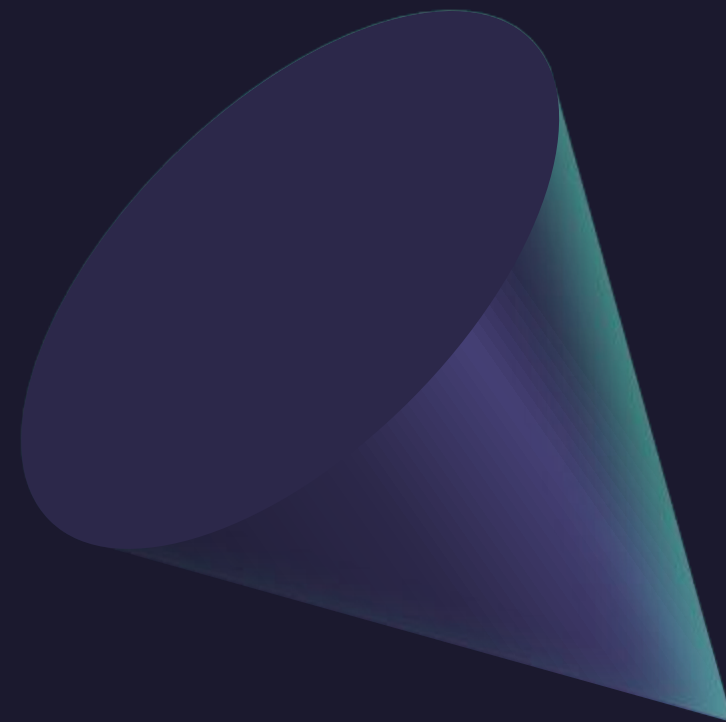


HTML

Software Systems Development

Monsoon 2023

IIIT Hyderabad



Content



Web Application
basics



HTML History



HTML basics



Anatomy



List



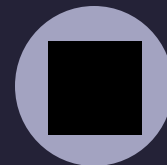
Links



Images



Tables



Forms

What is a Web Application?

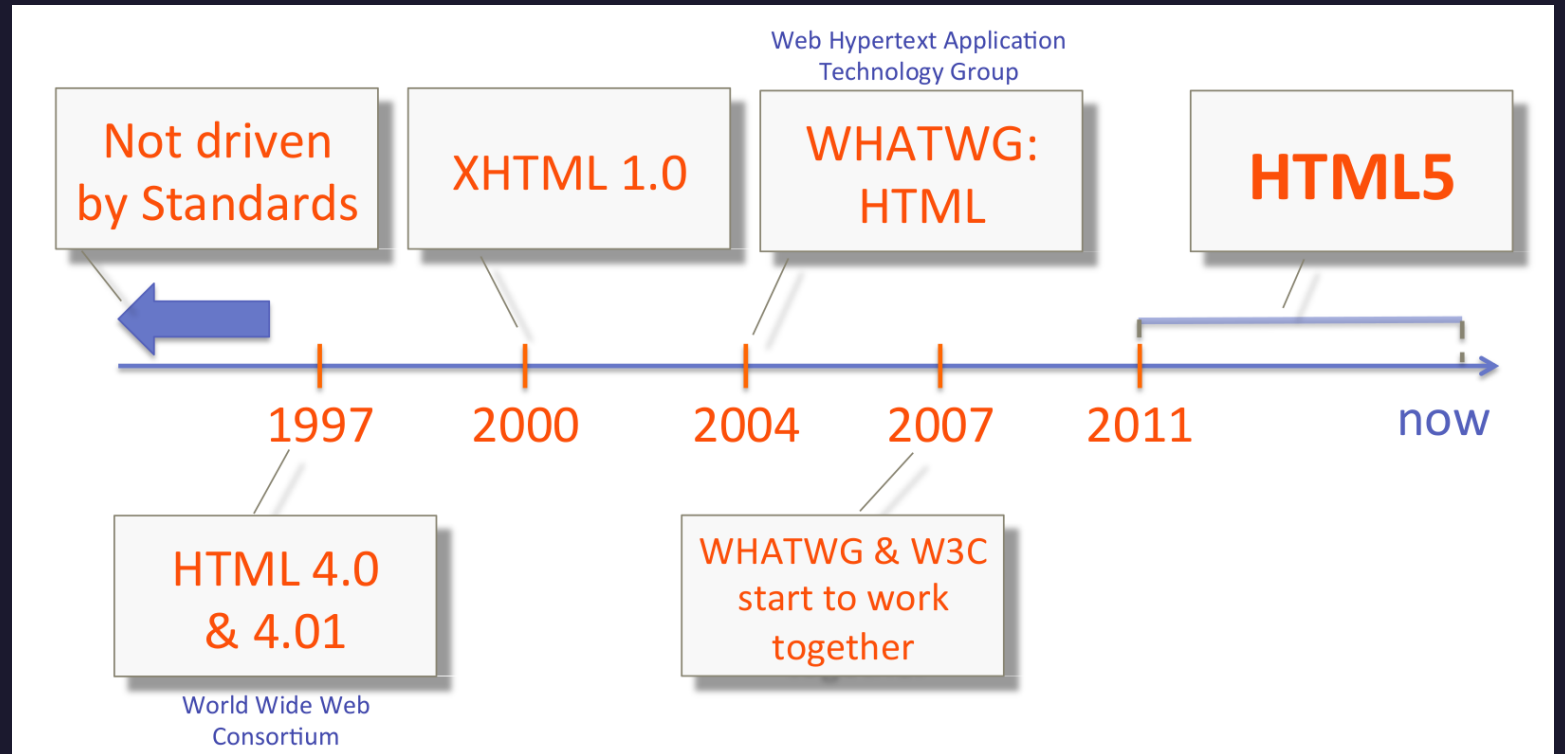
A computer program that uses a web browser to perform a particular function.

Functions include: Editing images, Creating documents, Shopping for products and services, Submitting help tickets, Sending emails, Chatting with friends and colleagues, Collaborating with remote colleagues, Managing projects, Playing games etc.



Image source : <http://solutiontech-in.com/wp-content/uploads/2015/03/web-applications-image-1-3.jpg>

History of HTML



History of HTML

Organization producing and managing different web--related standards
: <https://www.w3.org/>

Web Hypertext Application Technology Working Group (WHATWG): organization run by browser vendors that advance HTML-related technologies: <https://whatwg.org/>

HTML-related technologies and browser compliance for each feature
: <http://caniuse.com/>

Validate your HTML using W3C.org Validator : <https://validator.w3.org/>

HTML Basics



HTML stands for

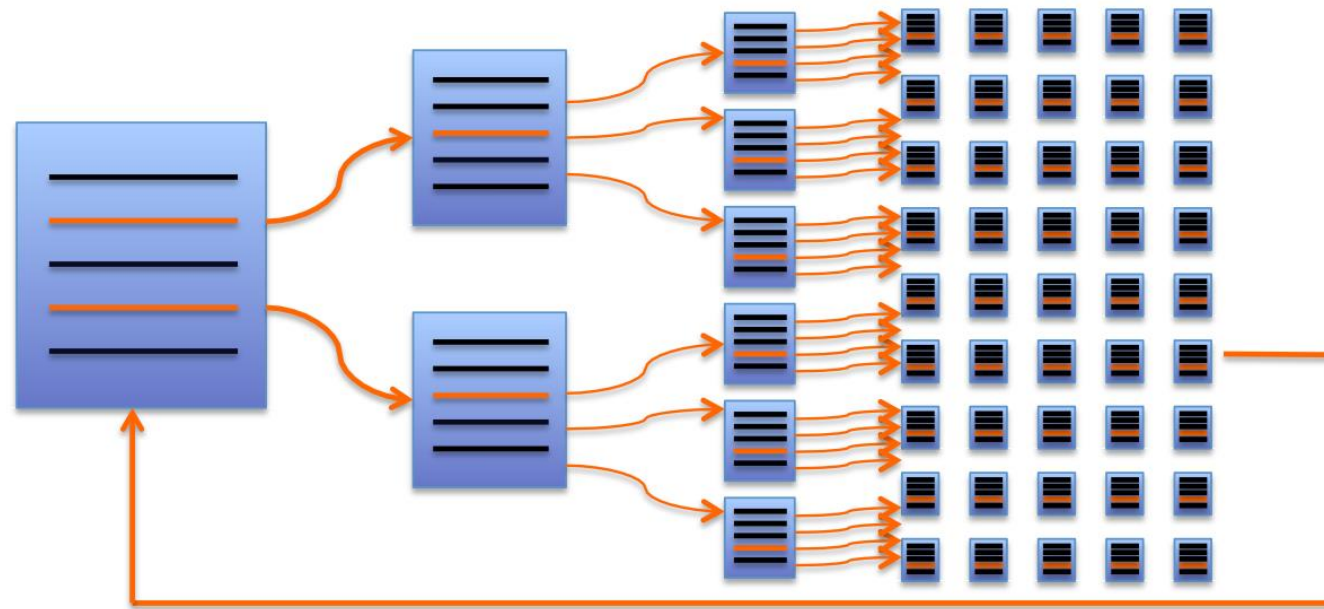
H **T** **M** **L**

Hyper**T**ext **M**arkup **L**anguage

The diagram illustrates the expansion of the acronym HTML. The letters H, T, M, and L are arranged in a horizontal row at the top. Below them, the words HyperText, Markup, and Language are written. Orange lines connect the H to Hyper, the T to Text, the M to Markup, and the L to Language. The first letter of each word (H, T, M, L) is colored orange to match the letters in the acronym above, while the remaining letters are in a dark blue color.

HTML stands for

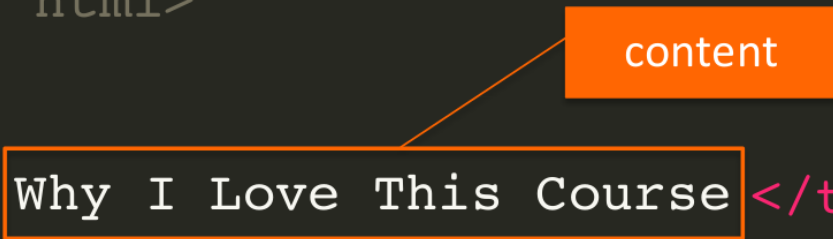
Hypertext Markup Language



HTML stands for

Hypertext Markup Language

```
<!doctype html>
<html>
  <head>
    <title>Why I Love This Course</title>
  </head>
  <body> [...]
</body>
</html>
```



The diagram illustrates the relationship between the content and its markup in HTML. An orange box labeled "content" is connected by a line to the text "Why I Love This Course" within the `<title>` tag. The text "Why I Love This Course" is also enclosed in an orange box, highlighting the content being marked up.

HTML stands for

Hypertext Markup Language

```
<h1>  
  <div>Hello World!</h1>  
</div>
```



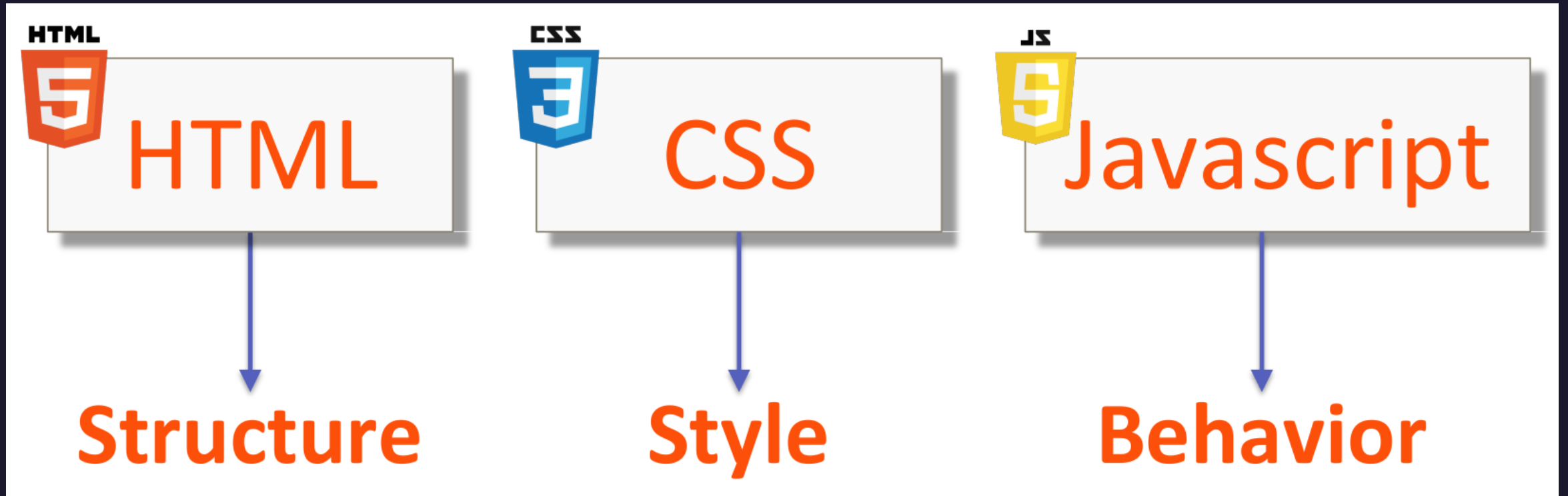
```
<h1>  
  <div>Hello World!</div>  
</h1>
```



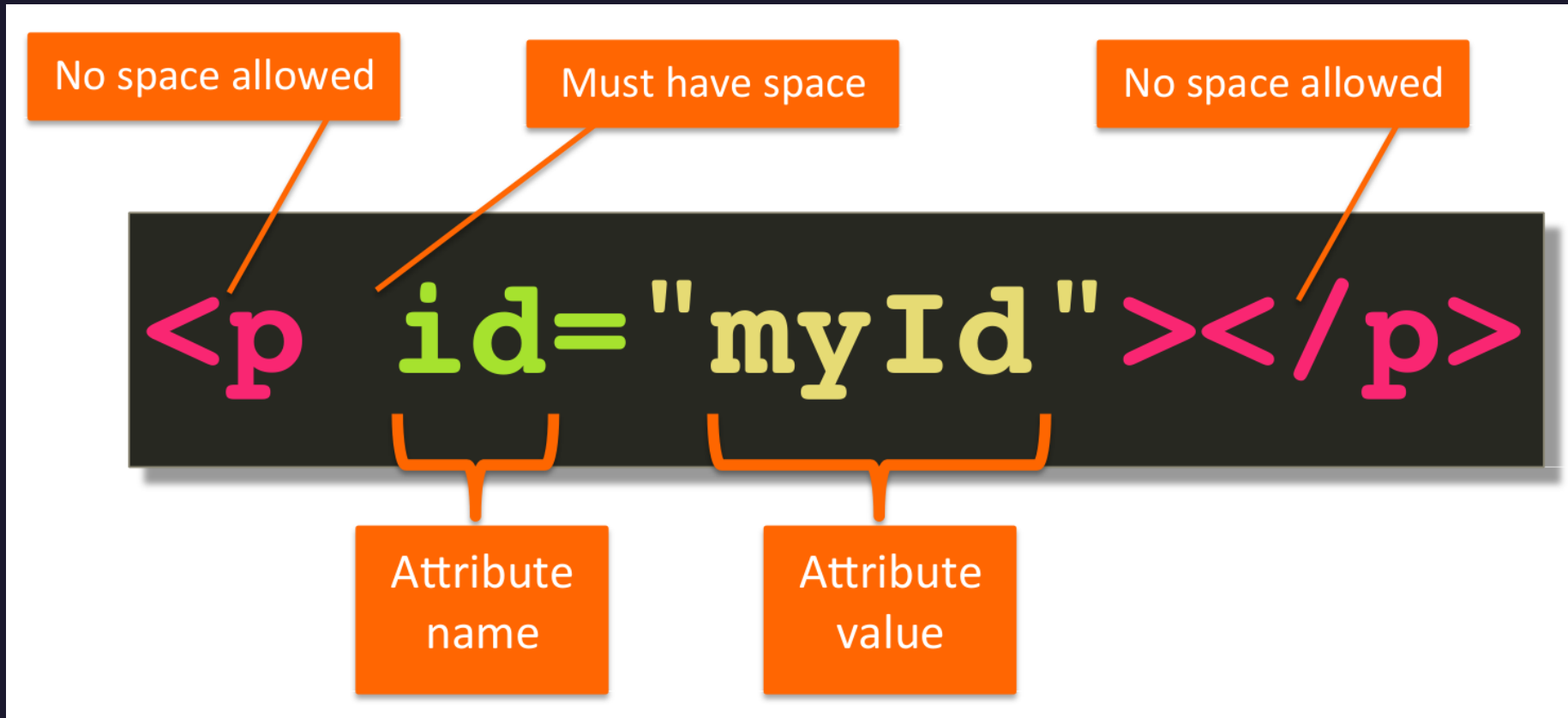


Web Technologies

Web Technologies



Anatomy



Lists

- Ordered

```
<ol>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ol>
```

```
1. Coffee
2. Tea
3. Milk
```

- Unordered

```
<ul>
  <li>Coffee</li>
  <li>Tea</li>
  <li>Milk</li>
</ul>
```

```
• Coffee
• Tea
• Milk
```

- Description List

```
<dl>
  <dt>Coffee</dt>
  <dd>- black hot drink</dd>
  <dt>Milk</dt>
  <dd>- white cold drink</dd>
</dl>
```

```
Coffee
  - black hot drink
Milk
  - white cold drink
```

Links

```
<a href="http://www.facebook.com/CourseraWebDev"
target="_blank" title="Like Our Page!">Course Facebook Page</a>
```

```
<body>
  <h1 id="top">Links to Sections of The Same Page</h1>
  <section>
    <ul>
      <!-- Link to every section in the page -->
      <li><a href="#section1">#section1</a></li>
      <li><a href="#section2">#section2</a></li>
      <li><a href="#section3">#section3</a></li>
      <li><a href="#section4">#section4</a></li>
      <li><a href="#section5">#section5</a></li>
      <li><a href="#section6">#section6</a></li>
    </ul>
  </section>

  <section id="section1">
    <h3>(#section1) Section 1</h3>
```

Images and Tables

```

```

```
<table style="width:100%">
  <tr>
    <th>Company</th>
    <th>Contact</th>
    <th>Country</th>
  </tr>
  <tr>
    <td>Alfreds Futterkiste</td>
    <td>Maria Anders</td>
    <td>Germany</td>
  </tr>
  <tr>
    <td>Centro comercial Moctezuma</td>
    <td>Francisco Chang</td>
    <td>Mexico</td>
  </tr>
</table>
```

Company	Contact	Country
Alfreds Futterkiste	Maria Anders	Germany
Centro comercial Moctezuma	Francisco Chang	Mexico

Forms



An HTML form is used to collect user input which is most often sent to a server for processing.



Form attributes



Form elements



Input types

Form attributes

Attribute	Description
<u>accept-charset</u>	Specifies the character encodings used for form submission
<u>action</u>	Specifies where to send the form-data when a form is submitted
<u>autocomplete</u>	Specifies whether a form should have autocomplete on or off
<u>enctype</u>	Specifies how the form-data should be encoded when submitting it to the server (only for method="post")
<u>method</u>	Specifies the HTTP method to use when sending form-data
<u>name</u>	Specifies the name of the form
<u>novalidate</u>	Specifies that the form should not be validated when submitted
<u>rel</u>	Specifies the relationship between a linked resource and the current document
<u>target</u>	Specifies where to display the response that is received after submitting the form

Form elements

Tag	Description
<u><form></u>	Defines an HTML form for user input
<u><input></u>	Defines an input control
<u><textarea></u>	Defines a multiline input control (text area)
<u><label></u>	Defines a label for an <input> element
<u><fieldset></u>	Groups related elements in a form
<u><legend></u>	Defines a caption for a <fieldset> element
<u><select></u>	Defines a drop-down list
<u><optgroup></u>	Defines a group of related options in a drop-down list
<u><option></u>	Defines an option in a drop-down list
<u><button></u>	Defines a clickable button
<u><datalist></u>	Specifies a list of pre-defined options for input controls
<u><output></u>	Defines the result of a calculation



Input types

- `<input type="button">`
- `<input type="checkbox">`
- `<input type="color">`
- `<input type="date">`
- `<input type="datetime-local">`
- `<input type="email">`
- `<input type="file">`
- `<input type="hidden">`
- `<input type="image">`
- `<input type="month">`
- `<input type="number">`
- `<input type="password">`
- `<input type="radio">`
- `<input type="range">`
- `<input type="reset">`
- `<input type="search">`
- `<input type="submit">`
- `<input type="tel">`
- `<input type="text">`
- `<input type="time">`
- `<input type="url">`
- `<input type="week">`

Thank you

