#### HTML Attributes

- All HTML elements can have attributes
- Attributes provide additional information about elements
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"

#### The href Attribute

The <a> tag defines a hyperlink. The href attribute specifies the URL of the page the link goes to:

#### Example

<a href="https://www.w3schools.com">Visit W3Schools</a>

#### The alt Attribute

The required alt attribute for the <img> tag specifies an alternate text for an image, if the image for some reason cannot be displayed. This can be due to slow connection, or an error in the src attribute, or if the user uses a screen reader.

```
<img src="img_girl.jpg" alt="Girl with a jacket">
```

#### The title Attribute

The title attribute defines some extra information about an element.

The value of the title attribute will be displayed as a tooltip when you mouse over the element:

```
This is a paragraph.
```

- All HTML elements can have attributes
- The <a href="href">href</a> attribute of <a> specifies the URL of the page the link goes to
- The src attribute of <img> specifies the path to the image to be displayed
- The width and height attributes of <img> provide size information for images
- The alt attribute of <img> provides an alternate text for an image
- The style attribute is used to add styles to an element, such as color, font, size, and more
- The lang attribute of the <html> tag declares the language of the Web page The title attribute defines some extra information about an element

# Heading 1

Heading 2

Heading 3

Heading 4

Heading 5

Heading 6

```
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
```

Note: Browsers automatically add some white space (a margin) before and after a heading.

# Headings Are Important

Search engines use the headings to index the structure and content of your web pages.

Users often skim a page by its headings. It is important to use headings to show the document structure.

<h1> headings should be used for main headings, followed by <h2> headings, then the less important
<h3>, and so on.

**Note:** Use HTML headings for headings only. Don't use headings to make text **BIG** or **bold**.

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#### Example

A simple HTML table:

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

# Table Cells

Each table cell is defined by a and a tag.

td stands for table data.

Everything between and are the content of the table cell.

```
Emil
```

**Note:** table data elements are the data containers of the table. They can contain all sorts of HTML elements; text, images, lists, other tables, etc.

#### Table Rows

Each table row starts with a and end with a tag.

tr stands for table row.

#### Unordered HTML List

An unordered list starts with the 
 tag. Each list item starts with the tag.

The list items will be marked with bullets (small black circles) by default:

```
    Coffee
    Tea
    Milk
```

### Ordered HTML List

An ordered list starts with the 
 tag. Each list item starts with the tag.

The list items will be marked with numbers by default:

```
    Coffee
    Tea
    Milk
```

# **HTML** Description Lists

HTML also supports description lists.

A description list is a list of terms, with a description of each term.

The <dl> tag defines the description list, the <dt> tag defines the term (name), and the <dd> tag describes each term:

#### **Block-level Elements**

A block-level element always starts on a new line.

A block-level element always takes up the full width available (stretches out to the left and right as far as it can).

A block level element has a top and a bottom margin, whereas an inline element does not.

The <div> element is a block-level element.

#### Example

<div>Hello World</div>

Here are the block-level elements in HTML:

<d1>

<article>

<address>

<div>

```
<dt>
                                                  <figcaption>
                                                               <figure>
<footer>
            <form>
                         <h1>-<h6>
                                      <header>
                                                  <hr>>
                                                               <
<main>
                         <noscript>
                                      <nav>
                                                  >
                                                               <section>
            <tfoot>
                                      <l
                                                   <video>
```

<blockquote>

<fieldset>

<canvas>

<dd>

<aside>

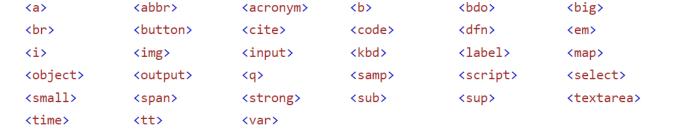
**Inline Elements** 

An inline element does not start on a new line.

An inline element only takes up as much width as necessary.

This is a <span> element inside a paragraph.

Here are the inline elements in HTML:



**Note:** An inline element cannot contain a block-level element!

#### The <form> Element

The HTML <form> element is used to create an HTML form for user input:

```
<form>
.
form elements
.
</form>
```

The <form> element is a container for different types of input elements, such as: text fields, checkboxes, radio buttons, submit buttons, etc.

All the different form elements are covered in this chapter: HTML Form Elements.

# The <input> Element

The HTML <input> element is the most used form element.

An <input> element can be displayed in many ways, depending on the type attribute.

Here are some examples:

Туре	Description
<input type="text"/>	Displays a single-line text input field
<input type="radio"/>	Displays a radio button (for selecting one of many choices)
<input type="checkbox"/>	Displays a checkbox (for selecting zero or more of many choices)
<input type="submit"/>	Displays a submit button (for submitting the form)
<input type="button"/>	Displays a clickable button

All the different input types are covered in this chapter: <u>HTML Input Types</u>.

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# **HTML Input Types**

Here are the different input types you can use in HTML:

```
<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">

**Tip:** The default value of the type attribute is "text".