

junior Web design



Lesson #3

Lists. Images. Tables

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Creating lists in HTML



List is a combined set of sentences that start with a digit or marker (for example, dots or ticks).

Allows you to arrange and organize various information and present it in a user-friendly form.

Any list is a container containing a bulleted list, or a container which defines a numbered list.

Each element of the list starts and ends with the tag.

Bulleted list

The bulleted list is defined as follows:

- a small marker, usually in the form of a filled circle is added before each item of the list.
- the list itself is created using the container <l>
- each item in the list starts with the tag, as shown below:

```
1 
2     First paragraph
3     Second paragraph
4     Third paragraph
5
```

The list should have a closing

The closing
tag is not required, but it's best to always add it to clearly separate the list items.

Example of creating a bulleted list

```
1 <html>
2
    <head>
     <meta http-equiv="Content-Type" content="text/html;</pre>
  charset=utf-8">
     <title>Unordered list</title>
4
5
   </head>
6
   <body>
     Shopping list:
7
     <l
8
9
       Ice cream
      Soda
10
11
       Milk
12
       Cheese
13
     </body>
14
15 </html>
```

Numbered list

Numbered lists:

- 1. Represent a set of items with their ordinal numbers.
- 2. The kind and type of numbering depends on the attributes of the tag, which is used to create the list.
- 3. Each item of a numbered list is indicated by the tag, as shown below.

```
1 
2     First paragraph
3     Second paragraph
4     Third paragraph
5
```

Example of creating a numbered list

```
<html>
2
    <head>
     <meta http-equiv="Content-Type" content="text/html;</pre>
3
  charset=utf-8">
     <title>Unordered list</title>
4
5
   </head>
   <body>
6
     Shopping list:
     8
       Ice cream
9
10
       Soda
       Milk
11
12
       Cheese
13
     14
   </body>
15 </html>
```

Images in HTML

Adding an image occurs in two stages:

- first a file of the desired size is prepared,
- then it is added to the page via the tag.

HTML itself is intended only to display the desired picture without changes.



- 1. Since the web page is loaded over the network, it is important to reduce the original images. The smaller they are, the faster the page will appear.
- 2. The size of the image is best set in width, for example, to **no more than 800 pixels**. Otherwise, the image may not

fit entirely in the browser window, and ugly scrollbars will appear there.

Adding an image to an HTML page

To add an image to a web page, use the tag, the src attribute, which determines the address of the graphic file.

The general syntax for adding an image is as follows:

```
<img src-"URL" alt="Alternative text">
```

URL (Universal Resource Locator) is a path to the file.

To indicate it you can use both absolute (exact Internet link or file on the hard disk) and relative (the address of the relatively current HTML page).

The image should be in a folder near the HTML file.

```
Index.html
ItStepLogo.png
```

Then, to add images you need to write the following code:

Additional attributes

You always need to use the src attribute, which tells the browser where the image is located.

In addition, there are also other attributes that you may need when working with images.

The **alt** attribute is used for an alternative description of the image if, for some reason, it is not shown to the user. This is especially important for visually impaired users or if the page loads very slowly.

```
<img src-"ItStepLogo.png" alt="Logo">
```

The **title** attribute can be used for a brief description of the image:

```
<img src-"ItStepLogo.png" title="Logo">
```

The other two important attributes are width and height:

```
<img src-"ItStepLogo.png" width="100px" height="100px">
```

The **width** and **height** attributes can be used to set the width and height of the image. The value should be specified in pixels.

Tables

Tables are used when it is necessary to display information logically arranged in columns and rows.

Adding a table to an HTML page

To add a table, you need to write the following code:

```
1
     2
     Cell 1
4
     Cell 2
5
     6
     7
     Cell 3
     Cell 4
8
9
     10
```

What is the difference between and ?

Three basic tags are used to insert tables:

- beginning and end of the table;
- "table row", starts and ends the horizontal row of cells:
- short for "table data". This tag starts and ends each cell in the row of the table.

Additional attributes

The **border** attribute

The **border** attribute is used to specify the thickness of the border around the table:

```
1
    2
    3
     Cell 1
     Cell 2
4
5
    6
7
     Cell 3
8
     Cell 4
9
    10
```

Attributes for content positioning

The tables have many attributes. For example:

- align aligns the contents of the entire table horizontally, in a row or in a separate cell. For example, *left*, *center* or *right*;
- valign aligns vertically (in a cell). For example, top, middle or bottom.

Example:

```
Cell 1
```

The colspan and rowspan attributes

When creating tables, two attributes are used: colspan and rowspan.

Colspan is an abbreviation for "**column span**". Colspan is used in the tag to specify how many columns this cell covers:

```
1
2
    3
    Cell 1
4
    5
    6
    Cell 2
    Cell 3
7
    Cell 4
8
    9
```

Setting **colspan** "3" causes the cell in the first row to span three columns. If we install **colspan** "2", the cell will cover only two columns, and it will be necessary to insert additional cells in the first row, so that the cells are evenly distributed into two rows.

Rowspan specifies how many rows this cell cover.

In this example, **rowspan** has a value of "3" in cell **Cell 1**. This indicates that the cell covers three rows (its own row and two more).

Cell 1 and Cell 2 remain in the same row, and Cell 3 and Cell 4 create separate rows.



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