

NGG-GAiN

HTML

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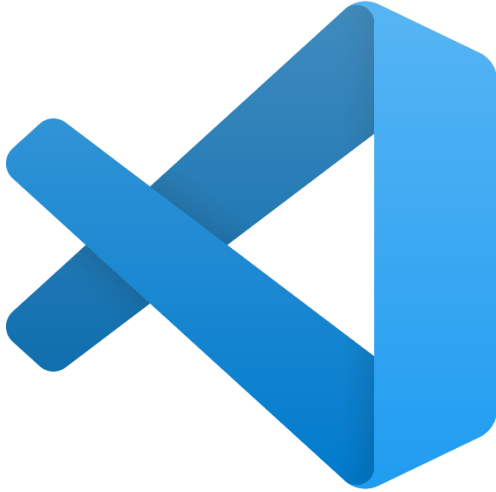


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Software

In this course we will work with Visual Studio code. It is a free code editor from Microsoft. Visual Studio Code is available cross-platform for the operating systems Windows, macOS and Linux.



Download: <https://code.visualstudio.com/download>

HTML

What is «HTML»?

HTML (HyperText Markup Language) is the basic building block of the web. It describes and defines the content of a web page together with the basic layout of the web page. In addition to HTML, other technologies are generally used to describe the appearance (CSS) or functionality/behaviour (JavaScript) of a web page. The tags in HTML are case-insensitive. This means that they can be written in upper and lower case letters or in a mixture. Example <title> tag can be written as <title>, <TITLE> or in any other way. HTML consists of elements, each of which can be modified by a number of attributes. HTML documents are linked to each other by links.

Basic HTML tags

Document structure

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
    <link rel="stylesheet" type="text/css" href="style.css">
  </head>
  <body>

  </body>
</html>
```

- <html>: Document type declaration
- <head>: (header data, e.g. information on title, etc.)
- <Body>: (body - content to be displayed, that is, text with headings, references, graphic references, and so on)

Head data

- <title>: (title of the page displayed in the tab)
- <Link>: (relationships to other documents in the Web space)
- <script>: (für Script-Anweisungen innerhalb des Dokumentes)

Text structuring

- <h1>, <h2> ... <h6>: Headings
- <p>: Plain text
- : Ordered list
- : Unordered list
- : Elements in and
- <div>: Container element

Links

- <a>: Link

Tables

```
<table>
  <tr>
    <td>Inhalt</td>
  </tr>
</table>
```

- <table>: Table definition tag
- <th>: Table head
- <tr>: Table row
- <td>: Table data

Multimedia and Graphics

```

```

- : Integrate graphic files
- src: Path of the file
- alt: alternative text

Form

An HTML form is used to collect user input.

```
<form action="/action_page.php">
  <label for="fname">First name:</label>
  <input type="text" name="fname">
  <label for="lname">Last name:</label>
  <input type="text" name="lname">
  <input type="submit" value="Submit">
</form>
```

- <form>: Form definition tag
- <label>: defines a label for many form elements
- <input>: Input to collect data
- Type: Defines the type of the input