

HTML5 Introduction

What is HTML?

- HTML, otherwise known as HyperText Markup Language, is the language used to create Web pages
- Using HTML, you can create a Web page with text, graphics, sound, and video

Tags

- The essence of HTML programming is tags
- A tag is a keyword enclosed by angle brackets (Example: `<p>`)
- There are opening and closing tags for many but not all tags; The affected text is between the two tags

Structure of a Web Page

- All Web pages share a common structure
- All Web pages should contain a pair of `<html>`, `<head>`, `<title>`, and `<body>` tags

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>My First Heading</h1>
<p>My first paragraph.</p>

</body>
</html>
```

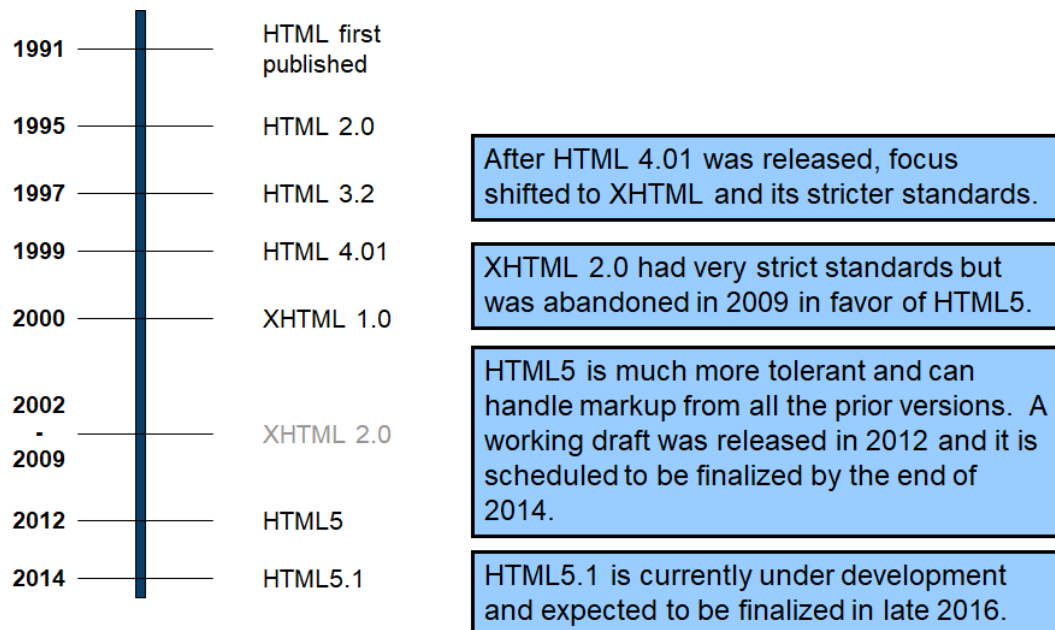
Example Explained

- The `<!DOCTYPE html>` declaration defines that this document is an HTML5 document
- The `<html>` element is the root element of an HTML page
- The `<head>` element contains meta information about the HTML page
- The `<title>` element specifies a title for the HTML page (which is shown in the browser's title bar or in the page's tab)
- The `<body>` element defines the document's body, and is a container for all the visible contents, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.
- The `<h1>` element defines a large heading
- The `<p>` element defines a paragraph

something about the `<title>` tag

- Choose the title of your Web page carefully; The title of a Web page determines its ranking in certain search engines
- The title will also appear on Favorite lists, History lists, and Bookmark lists to identify your page

History of HTML



HTML editors

Whether you're new to HTML or a seasoned professional, a good HTML editor can help you code faster thanks to its many helpful features. For example, **syntax highlighting** and other capabilities help you visually scan over the code faster as well as reduce errors.

What is an HTML Editor?

An HTML editor is a **program** that's specially designed for coding HTML and possibly CSS, or a variety of other programming languages. It includes features that streamline your coding workflow.

Features of an HTML Text Editor

HTML text editor can include many potential features such as:

- **Syntax highlighter** – A feature that emphasizes key elements in different colors so it's easier to keep track of your code. You're able to visually differentiate between the elements so you can quickly determine what you need to write next.
- **Auto-completion** – Components such as closing tags are automatically inserted when they're logically supposed to appear. It saves you time automating a good chunk of your code.
- **Debugging** – An HTML text editor sometimes can include a debugging feature. It checks your code for errors and reports them back to you. It saves you from having to comb through line after line of code trying to see and fix tiny errors that are easy to miss.
- **Code validation** – Some of the available text editors for HTML options include built-in code validation. This is a feature that checks to make sure your code's syntax is error-free. While it won't check for more complex errors like a debugging tool would, it's still a useful feature. It saves you time in a similar way to a debugging tool.

- **Insert common HTML elements** – with one click, you can quickly add HTML elements without having to constantly type them in every time you want to use them, saving you time.
- **A quick search of code** – Instead of looking through hundreds of lines of code for one component, this feature lets you search for it. Each instance of the keyword you typed gets highlighted in your code so you can quickly find what you need.
- **Search and replace** – This feature lets you not only search your code, but you can change all instances of your searched keywords to something else. You only have to type the replacement code once instead of multiple times.

The best HTML Editors

CKEditor website: <https://ckeditor.com/>

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The WYSIWYG Editor of tomorrow available today

CKEditor is a modern, feature-rich JavaScript text editor with clean UI and perfect UX. Easily customizable to any use case.

[Try demo](#) [See pricing](#)

CKEditor 5 provides every type of <https://ckeditor.com/ckeditor-5>

WYSIWYG editing solution imaginable. From editors similar to Google Docs and Medium, to Slack or Twitter like [applicationsapps](#).

The rich text editor for every use case

CKEditor 5 allows users to create any type of content in your application, be it documents, reports, emails, notes or chat messages.

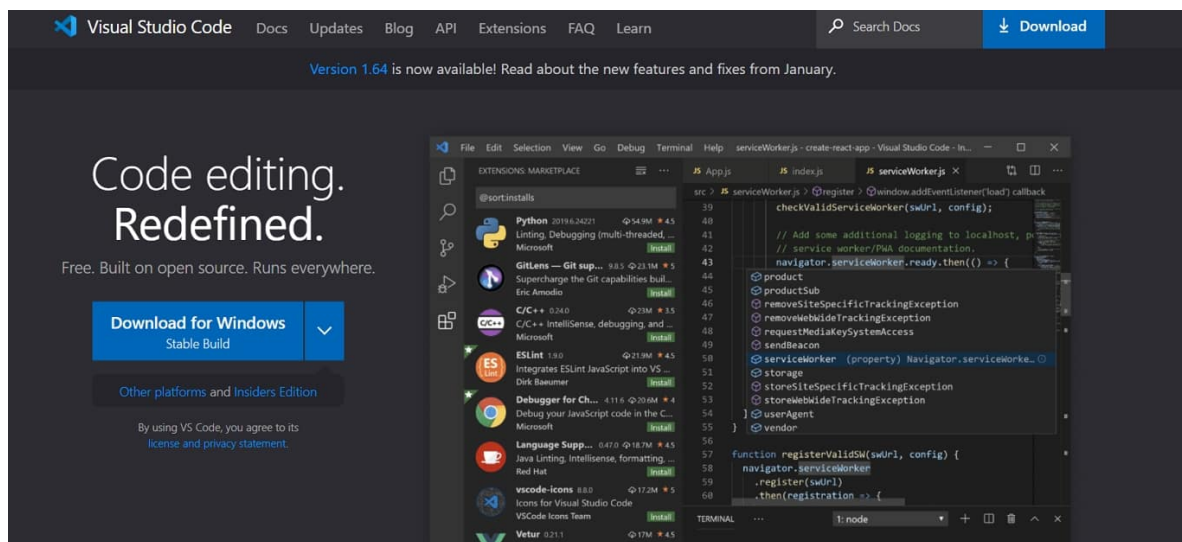
[Take a product tour](#) [Read docs](#)

CKEditor is a robust, versatile, innovative WYSIWYG rich text editor that sets the standards for the whole industry and outshines competitors in many ways, including code quality, a unique 100% code coverage, superb documentation, and first-class support.

CKEditor provides many advanced, stable, battle-tested features (like Revision History, Comments, Track Changes, Real-time Collaboration, Export to Word/PDF), with new functionalities added regularly. Such features are vital for complex use cases but are something that basic WYSIWYG editors simply don't offer.

This modern, full-featured JavaScript rich text editor is available for free for open-source projects under the GPL2+ license, with premium features additionally available.

Visual Studio Code website: <https://code.visualstudio.com/>



Visual Studio Code is an open-source, free HTML editor from Microsoft built on Github's Electron. With this framework, users can create projects using HTML, CSS, and JavaScript across multiple operating systems.

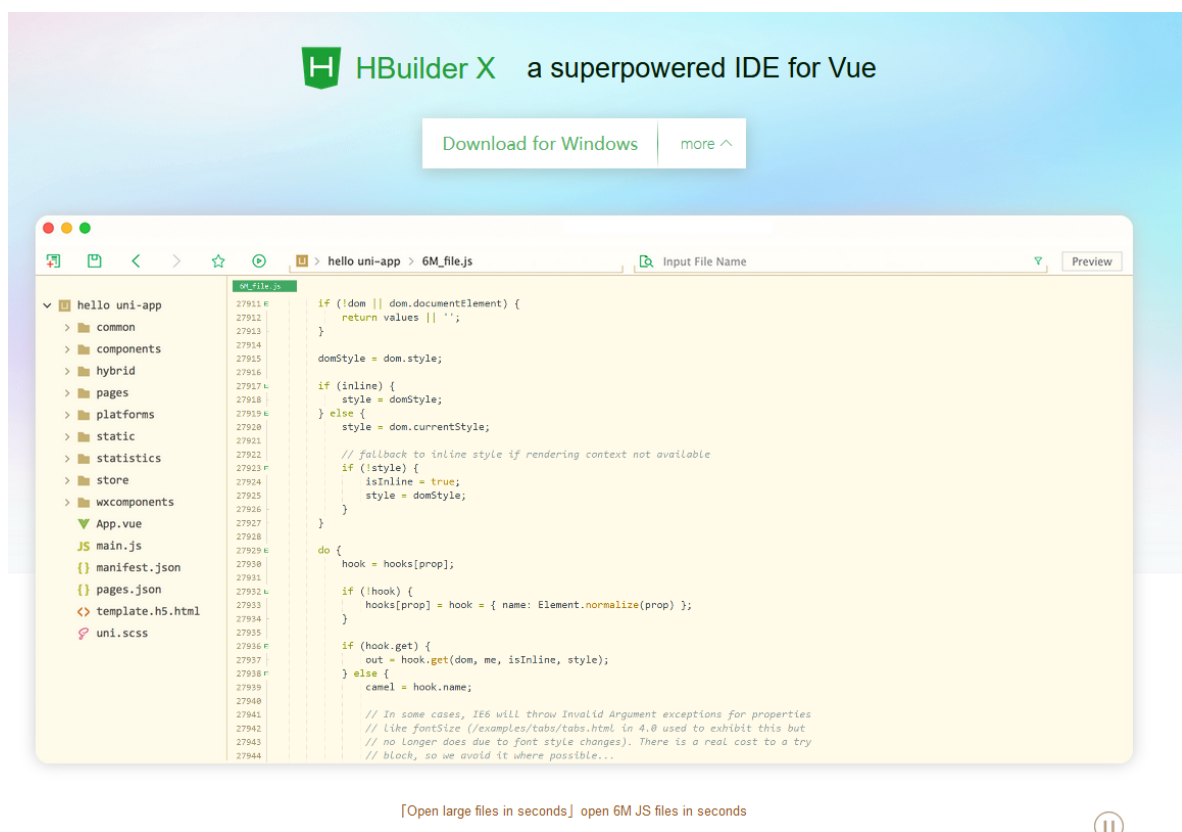
Visual Studio Code is compatible with Windows, Mac, and Linux. It also integrates with Microsoft Azure which makes it easy for code deployment. Users can develop projects and applications locally and publish them to Azure using a single click.

This open-source code editor uses IntelliSense features to provide different types of auto-completion, including variables, fields, and function definitions. In addition, users can install [language extensions](#), like Python and Ruby, to allow IntelliSense to work with other programming languages.

Furthermore, its clean and straightforward interface makes it easy to locate various HTML editing tools, open a new file, and search documents.

HBuilderX <https://www.dcloud.io/hbuilderx.html>

HBuilder - Fast, Light, Powerful, Free



H is the first letter of HTML, Builder is the builder, X is the next version of HBuilder. We are also referred to as **HX**.

1. **Lightweight**

Only 10M install package (excluding plugins)

2. **Super Fast**

Startup speed, large file opening speed and coding prompt speed are extremely fast. Implemented with C++, excellent architecture than Java or Electron.

3. **Built for Vue**

HX has made a lot of optimizations to Vue, which has a better user experience than other tools. [Details](#)

4. **Markdown Tool**

HX is the only IDE which open a new file with the default file type as markdown. Also it provides the super powerful support for md.

HX provides variety of functions for md. please **be sure to click** [Menu-Help-Markdown Syntax Example] refer to [manual] -> [help] -> [markdown help] to learn md and HX quickly.

5. **Easy on the eyes**

The UI of HX is simple and clear. A default soft-green theme optimized for long work. [Details](#)

6. **Powerfull Intellisense**

HX is the unique software company in china with its own independent IDE syntax analysis engine. It provides accurate auto-completion and [Go to definition](#)(Alt+Left mouse)

7. **Efficient Text Editing**

Multi-cursor / multi-line selection. Smart auto selection on double click.Smart hotkeys that work even without selection. [Details](#)

8. **Powerful JSON support**

HX provides more efficient way for modern json structures. [Details](#)