

# JavaScript Development Tools

Know your Tools!

## Javascript Fundamentals

Telerik Software Academy

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# JavaScript Tools

Know your Tools!



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# JavaScript Tools

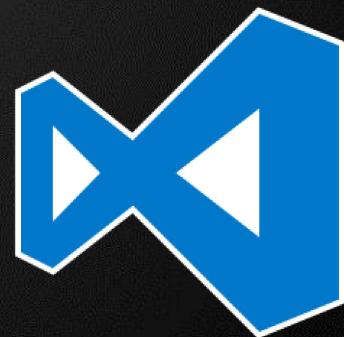
- JavaScript is an interpreted language
  - It can be ran on the browser or locally
  - The means to acquire the JavaScript code are trivial
    - No matter how or where it is coded
    - You can even code it in Notepad
- Yet, there are many tools that make JavaScript coding easier
  - Like editors, debuggers, etc...

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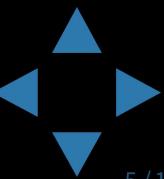


# JavaScript Coding Tools

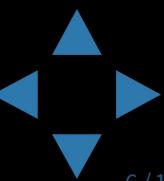
Coding JavaScript made easy!



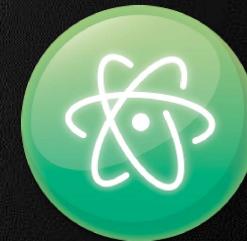
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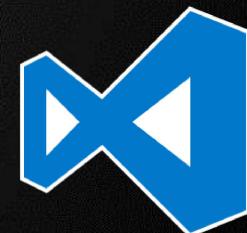
- All a developer needs for writing Javascript is a text editor - could be even Notepad/Notepad++
- Yet, there are a lot of better options
  - Text editors with plugins
    - Atom
    - VS Code
    - Sublime
    - Brackets
    - Vim
  - IDEs
    - Visual Studio with Web Essentials
    - Jetbrains Webstorm
    - Eclipse with Javascript plugins



- Atom is a popular text editor with large community
- Cross-platform - runs on Windows, Linux and OS X
- Free, open-source
- Highly customizable
  - Can be customized to provide an integrated terminal
- Provides file system browser
- Lots of plugins and extensions
  - And a lot of good Javascript plugins



- VS Code is an open-source text editor from Microsoft
- Cross-platform - runs on Windows, Linux, OS X
- Customizable
- Provides features like file system browser, integrated terminal, task runners
- Provides Javascript debugging under NodeJS out-of-the-box
- Provides a lot of plugins and extensions



# Sublime Text

- Sublime Text - popular cross-platform editor
- Proprietary, unregistered version is free
- Customizable
- Rich amount of plugins and extensions
- Good speed performance

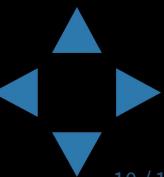


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# Visual Studio

- Visual Studio is the main development tool for creating applications with the .NET framework
  - ASP.NET, WPF, etc
- The Web Essentials extensions mix in a lot of powerful javascript tools
  - Intellisense, autocomplete, user snippets and more
- Powerful, but heavy



- Jetbrains WebStorm is a ready-to-use IDE for JavaScript development
  - Including web development with HTML and CSS
- WebStorm has most of the necessary features for web development
  - Code highlighting, code completion
  - Javascript debugging and intellisense
- WebStorm is a paid software
  - Yet, Jetbrains offer a discount (100%) for students



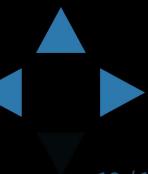
# Debugging Javascript



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- There is no universal way of debugging client-side JavaScript
  - The only way to debug client-side JavaScript is through the browser
  - Server-side JS can be debugged in several ways
    - VS Code has integrated debugging
    - NodeJS comes with V8 inspector
      - [Debugging with V8 inspector](#)
- Fortunately all browsers have their own debugging tool/plugin that makes it easier
  - Firefox has [\*\*Firebug\*\*](#)
  - Chrome and Opera have [\*\*Web developer\*\*](#)
  - Internet Explorer has [\*\*F12\*\*](#)



# Javascript Tools and Utilities



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# Telerik Academy **JavaScript Tools and Utilities**

- JavaScript Code Quality Tools
  - <http://eslint.org/>
  - Shows warnings and errors for bad coding style
  - ESlint can be integrated with a text editor of your choice
- Node monitor - live-reload for JavaScript files
  - [nodemon](#)
  - Re-executes your script whenever you make changes to it
- Git - Source control system
  - [Detailed tutorial for beginners](#)

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# JavaScript Tools and Utilities

- HTML, CSS and JavaScript playgrounds
  - <http://jsbin.com>
  - <http://liveweave.com>
  - <https://jsfiddle.net/>
- JavaScript performance tester
  - <http://jsperf.com>
- When sharing code with your peers
  - <http://pastebin.com/>, <https://gist.github.com/> or other similar tools

