

JavaScript Development Tools

Know your Tools!



JavaScript Fundamentals

Telerik Software Academy

<http://academy.telerik.com>



Visual Studio

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JavaScript Tools

Know your Tools!

- ◆ **JavaScript is an interpreted language**
 - ◆ **It is run and executed by the browser**
 - ◆ **The means to acquire the JavaScript code are trivial**
 - ◆ **No matter how or where it is coded**
 - ◆ **A simple Notepad will do the trick**
- ◆ **Yet, there are many tools that easify JavaScript coding**
 - ◆ **Like editors, debuggers, etc...**

JavaScript Development Tools

Coding JavaScript made easy!



JavaScript Development Tools

- ◆ All a developer needs for coding JavaScript is a text editor
 - ◆ Notepad/Notepad++ will do the trick
- ◆ Yet, JavaScript is one of the popular guys now
 - ◆ Many, many tools for coding JavaScript
 - ◆ Sublime Text 2 / Sublime Text 3
 - ◆ Visual Studio 2012/2013
 - ◆ Adobe Brackets, Cloud9, Telerik AppBuilder
 - ◆ JavaScript Development Tools for Eclipse

/media/mrdoctorwho/linux-sd/simpleApps/anonymousdelivers/gui.py - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

BlackSmith.py x gui.py

```
35
36 elif os.name == "nt":
37     share = sys.argv[0]
38
39 if os.name != "nt" and not os.path.exists("setup.py"):
40     sys.path.append(lib + "/" + "library.zip")
41
42 ## Import simple text translator.
43 from stext import _
44
45 ## And set language that we detect.
46 setVars(lang, share)
47
48
49 import anonymous
50 class AnonUploader(threading.Thread):
51     def __init__(self):
52         threading.Thread.__init__(self)
53         gtk.gdk.threads_init()
54         self.UI      = "%s/main.glade" % share
55         self.reduce = False
56         self.lastURL= ""
57         self.main()
58
59     def askTwill(self, filename):
60         urls = anonymous.send(filename,
61             self.private.getActive(),
62             self.directLink.getActive())
63         self.spinner.stop()
64         self.fixed.set_size(507, 205)
65         self.spinner.set_visible(False)
66         self.okay.set_visible(True)
67         self.copy.set_visible(True)
68         self.url.set_visible(True)
69         self.lastURL = urls[0]
```

Line 49, Column 17 Tab Size: 4 Python

Sublime Text 2

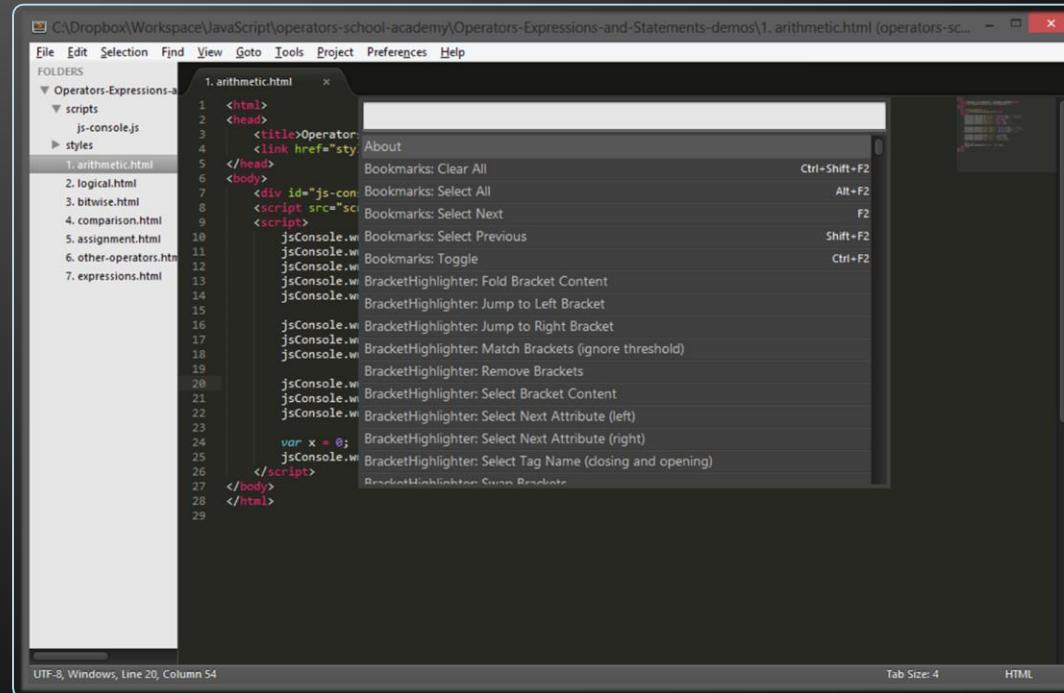
A lightweight development editor

- ◆ Sublime Text is a sophisticated text editor for code, markup and prose
 - ◆ Free to download: <http://www.sublimetext.com/2>
- ◆ Sublime text has many useful features, not directly related to coding
 - ◆ Navigation between files
 - ◆ Multiple selection
 - ◆ Command Palette
 - ◆ Customizable – write your own plugins

- ◆ Goto Anything
 - ◆ Easier navigation between files
 - ◆ Triggered with “CTRL + P”
- ◆ Command Palette
 - ◆ Execute commands
 - ◆ Triggered with “CTRL + SHIFT + P”
- ◆ Multiple Selection
 - ◆ Change at multiple places at the same time
 - ◆ Hold CTRL and right-click

Working with Sublime Text 2

Live Demo

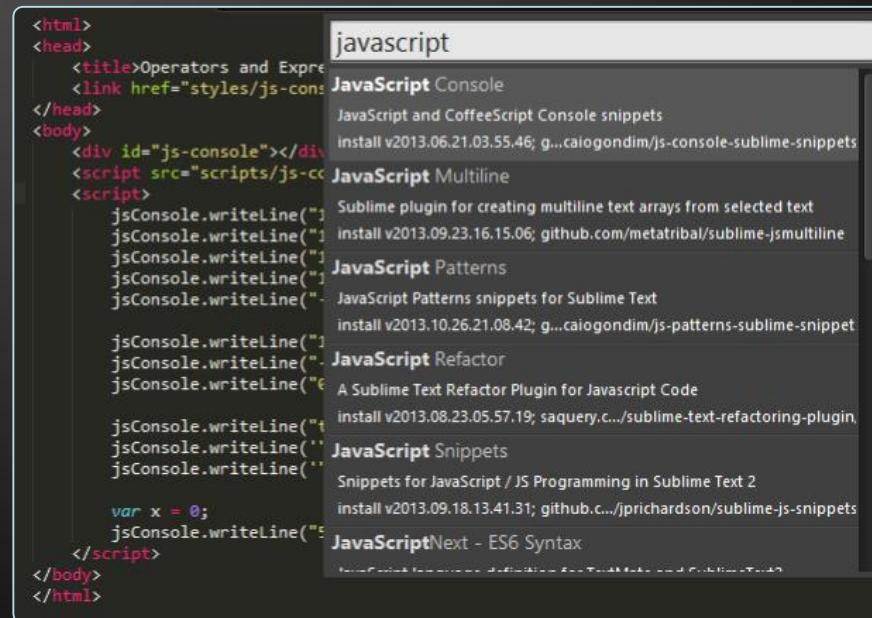


Sublime Text 2 Plugins

- ◆ Plugins extend the power of Sublime Text
 - Code highlighting
 - Autocompletion / intellisense
 - And more
- ◆ Plugins can be installed two ways:
 1. Download the package, paste it in a special folder of Sublime Text and you are ready to go
 2. Or, install the “Package Control” plugin and then install plugins directly from Sublime Text

Installing Plugins for Sublime Text 2

Live Demo



A screenshot of the Sublime Text 2 interface. On the left, there is a code editor window displaying an HTML file with some JavaScript code. On the right, a package list is open, showing various JavaScript-related packages. The search bar at the top of the list is set to "javascript". The list includes:

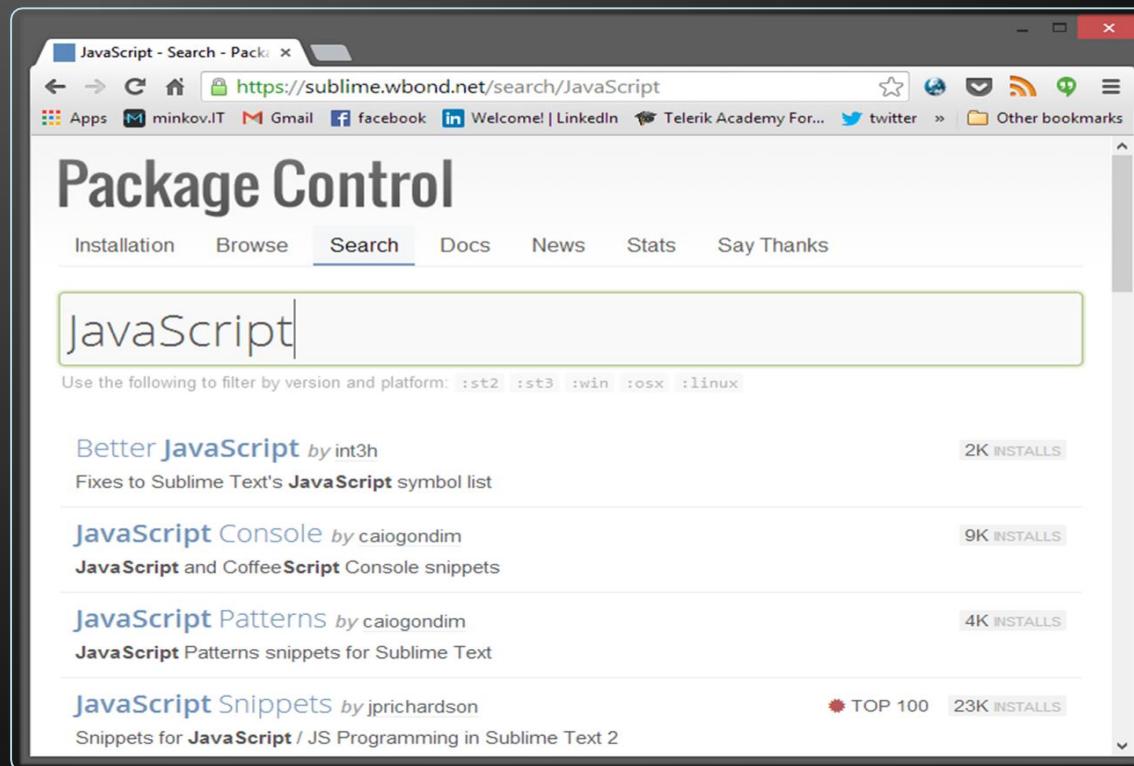
- JavaScript Console
- JavaScript and CoffeeScript Console snippets
- install v2013.06.21.03.55.46; g...cailogondim/js-console-sublime-snippets
- JavaScript Multiline
- Sublime plugin for creating multiline text arrays from selected text
- install v2013.09.23.16.15.06; github.com/metatribal/sublime-jsmultiline
- JavaScript Patterns
- JavaScript Patterns snippets for Sublime Text
- install v2013.10.26.21.08.42; g...cailogondim/js-patterns-sublime-snippet
- JavaScript Refactor
- A Sublime Text Refactor Plugin for Javascript Code
- install v2013.08.23.05.57.19; saquery.c.../sublime-text-refactoring-plugin
- JavaScript Snippets
- Snippets for JavaScript / JS Programming in Sublime Text 2
- install v2013.09.18.13.41.31; github.c.../jprichardson/sublime-js-snippets
- JavaScriptNext - ES6 Syntax

Sublime Text 2 Useful Plugins

- ◆ There are almost indefinite number of Sublime Text 2 plugins
- ◆ List of useful Sublime Text 2 plugins
 - ◆ IndentGuides – marks the indents (tabs)
 - ◆ StatusBarExtension – adds encoding to the status bar
 - ◆ ClipboardHistory – history of Copy & Paste
 - ◆ Nettuts+ Fetch – easier fetching of files
 - ◆ SiderBarEnhancements – extensions to sidebars
 - ◆ SublimeCodeIntel – adds code intellisense

Sublime Text 2 Plugins

Live Demo



Sublime Text 2 JavaScript Plugins

- ◆ List of useful plugins for JavaScript development:
 - Less2css – compiles LESS code to CSS
 - JsFormat – formats JS code
 - SublimeLinter – adds static code analysis for JS
 - BracketHighlighter – highlights opening and closing brackets
 - jQuery – adds jQuery bundles

Sublime Text 2 Plugins for JavaScript

Live Demo

Visual Studio



Visual Studio

- ◆ Visual Studio is the main development tool for creating applications with the .NET framework
 - ASP.NET, WPF, Silverlight, SharePoint, Windows 8, etc...
- ◆ Until Windows 8 and version 2012, Visual Studio was not a pleasant tool for coding JavaScript
 - Microsoft put JavaScript into the core of Windows 8, so their development tool needed to be done right
 - Use Visual Studio 2012 or Visual Studio 2013

Visual Studio 2012/2013

- ◆ VS 2012/2013 are pretty much ready-to-use for JavaScript coding
 - They have pretty good intelli-sense, code highlighting, etc...
 - There are paid and free versions (Visual Studio 2012/2013 Web Developer)

Visual Studio 2012/2013

Live Demo

Debugging JavaScript

Using All the Tools

Debugging JavaScript

- ◆ Sadly, no intelligent way of debugging client-side JavaScript
 - The only way to debug JavaScript is through the browser
- ◆ 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

Debugging JavaScript

Live Demo

JavaScript Utilities

- ◆ JavaScript Code Quality Tools

- ◆ <http://www.jshint.com/>
 - ◆ <http://www.jslint.com/>

- ◆ HTML, CSS and JavaScript playgrounds

- ◆ <http://jsbin.com>
 - ◆ <http://liveweave.com>

- ◆ JavaScript performance tester

- ◆ <http://jsperf.com>

JavaScript Utilities

Live Demo

Questions?

Free Trainings @ Telerik Academy

- ◆ "Web Design with HTML 5, CSS 3 and JavaScript" course @ Telerik Academy



- ◆ html5course.telerik.com

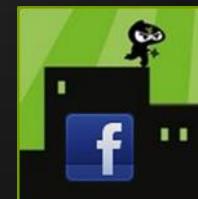
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