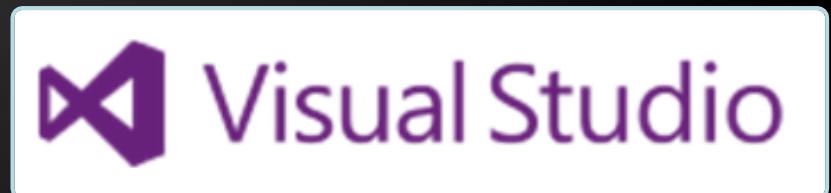


# JavaScript Development Tools

Know your Tools!



**Telerik Software Academy**  
Learning & Development Team  
<http://academy.telerik.com>



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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    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

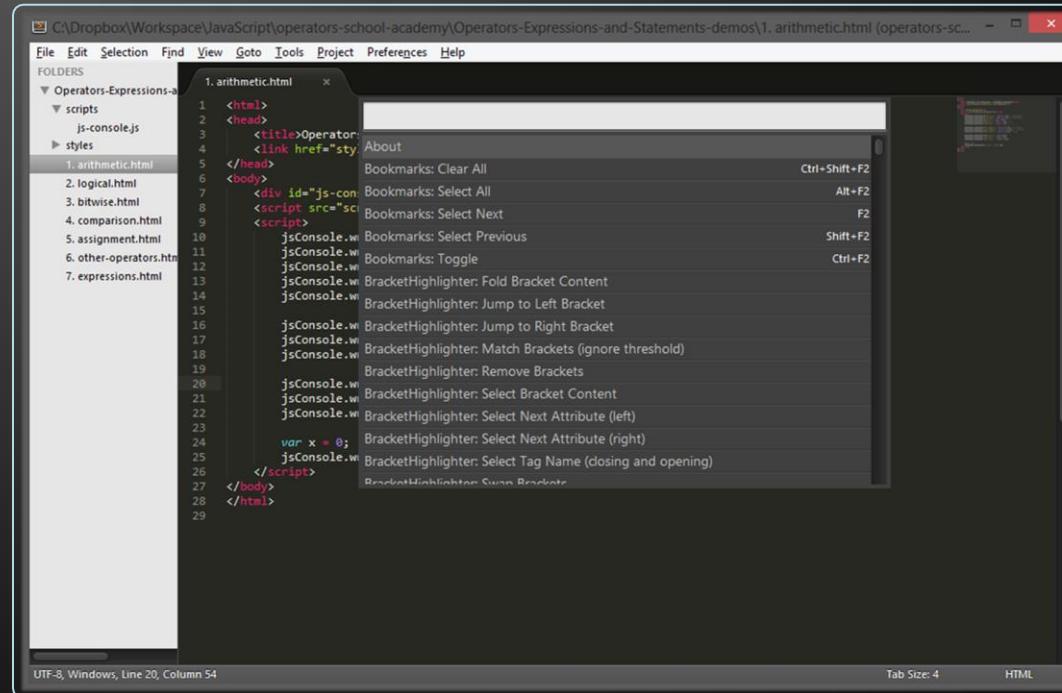
## A lightweight development editor

- ◆ 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

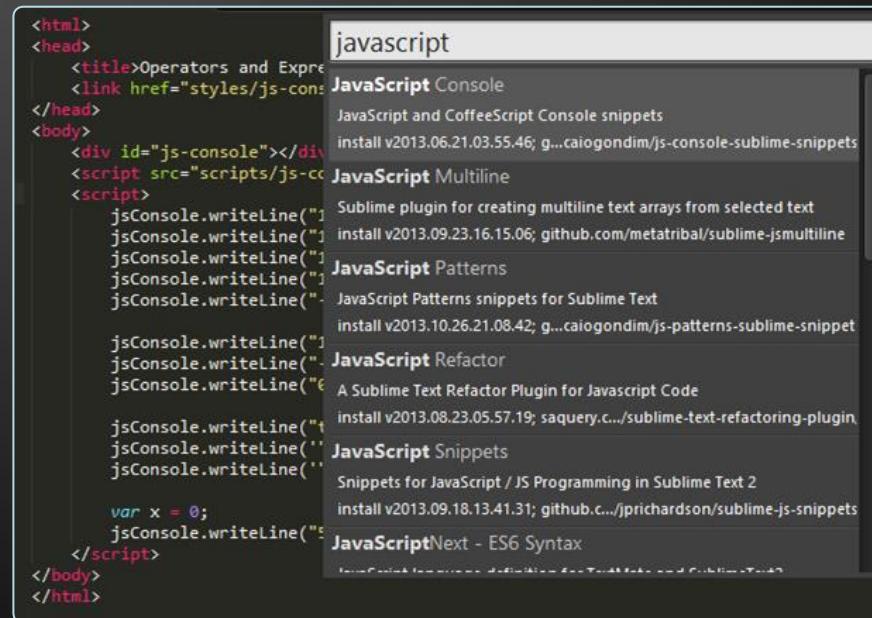


# Sublime Text 2 Plugins

- ◆ 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 search results panel is open, showing a list of packages related to JavaScript. The search term "javascript" is typed into the search bar at the top of the panel. The results list includes:

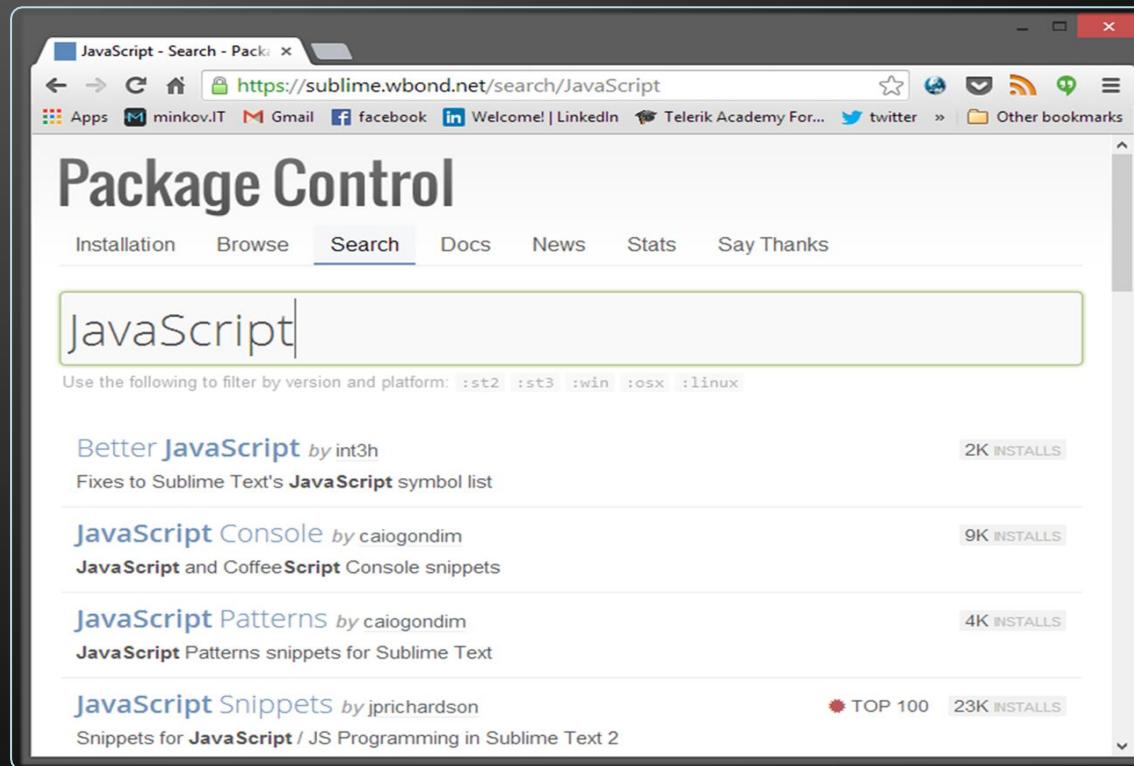
- JavaScript Console
- JavaScript and CoffeeScript Console snippets
- install v2013.06.21.03.55.46; g...caigondim/js-console-sublime-snippets
- JavaScript Multiline
- Sublime plugin for creating multiline text arrays from selected text
- install v2013.09.23.16.15.06; github.com/metatribal/sublime-jsmultiline
- JavaScript Patterns
- JavaScript Patterns snippets for Sublime Text
- install v2013.10.26.21.08.42; g...caigondim/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?