Topalian **JavaScript** Code **Editor Christopher Andrew Topalian**

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Dedicated to God the Father

```
Topalian JavaScript Code Editor
         file:///D:/_1Code/0_JS_Publish/Topalian_JavaScript_Code_Editor/Topalian_JavaS 🖒
function greeting(whichMessage)
  alert(whichMessage);
console.log('Hi Everyone');
alert('Hi Everyone');
let name = prompt("Enter Name");
alert('Hi' + name);
```

```
<!-- Dedicated to God the Father -->
<!-- All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024 -->
<!-- https://github.com/ChristopherTopalian --
<!--
https://github.com/ChristopherAndrewTopalia
n -->
<!-- Topalian JavaScript Code Editor.html --
<!-- Version 001 - (2024-07-04) -->
<html>
<head>
<title> Topalian JavaScript Code Editor
</title>
<style>
```

```
body
  padding: 20px;
  background-color: rgb(0, 0, 0);
  font-family: Arial;
  color: white;
#editorContainer
  height: 300px;
#codeInput, #codeOutput
  position: absolute;
  top: 0;
```

```
left: 0;
  width: 100%;
  height: 100%;
  padding: 10px;
  font-family: Arial;
  font-size: 24px;
  font-weight: bold;
  border: none;
  resize: none;
  tab-size: 4;
  overflow-y: scroll;
#codeInput
  background-color: rgba(0, 0, 0, 0);
  /* hide text in textarea */
  color: transparent;
```

```
caret-color: white;
  z-index: 2;
  overflow-y: scroll;
#codeOutput
  /* if font size increaes, decrease top pos
corrospondingly */
  top: -22px;
  background-color: rgb(0, 0, 0);
  color: white;
  white-space: pre-wrap;
  word-break: break-word;
  /* make div not selectable */
  pointer-events: none;
  overflow-y: scroll;
  z-index: 1;
```

```
.pink
  color: pink;
.skyblue
  color: skyblue;
.yellow
  color: yellow;
```

.lightGray

```
color: rgb(200, 200, 200);
.magenta
  color: rgb(255, 138, 255);
objects
  color: rgb(155, 195, 255);
}
</style>
</head>
```

```
<body>
<div id = "editorContainer">
  <textarea id = "codeInput"></textarea>
  </div>
<script>
let theEvents =
  'onabort',
  'onafterprint',
  'onanimationend',
  'onanimationiteration',
  'onanimationstart',
  'onbeforeprint',
  'onbeforeunload',
```

'onblur', 'oncanplay', 'oncanplaythrough', 'onchange', 'onclick', 'oncontextmenu', 'oncopy', oncut', 'ondblclick', 'ondrag', 'ondragend', 'ondragenter', 'ondragleave', 'ondragover', 'ondragstart', 'ondrop', 'ondurationchange', 'onemptied',

'onended', 'onerror', 'onfocus', 'onfocusin', 'onfocusout', 'onfullscreenchange', 'onfullscreenerror', 'onhashchange', 'oninput', 'oninvalid', 'onkeydown', 'onkeypress', 'onkeyup', 'onLine', 'onload', 'onloadeddata', 'onloadedmetadata', 'onloadstart',

'onmessage', 'onmousedown', 'onmouseenter', 'onmouseleave', 'onmousemove', 'onmouseover', 'onmouseout', 'onmouseup', 'onmousewheel', 'onoffline', 'ononline', 'onopen', 'onpagehide', 'onpageshow', 'onpaste', 'onpause', 'onplay', 'onplaying',

'onpopstate', 'onprogress', 'onratechange', 'onresize'. 'onreset'. 'onscroll', 'onsearch', 'onseeked', 'onseeking', 'onselect', 'onshow', 'onstalled', 'onstorage', 'onsubmit', 'onsuspend', 'ontimeupdate', 'ontoggle', 'ontouchcancel',

```
'ontouchend',
  'ontouchmove',
  'ontouchstart',
  'ontransitionend',
  'onunload',
  'onvolumechange',
  'onwaiting',
  'onwheel'
];
let theFunctions =
  'abs',
  'acos',
  'acosh',
  'adoptNode',
  'alert',
  'appendChild',
```

```
'asin',
'asinh',
'assert',
'assert',
'assign',
'atan',
'atan2',
'atanh',
'atob',
'back',
'blur',
'btoa',
'cbrt',
'ceil',
'charAt',
'charCodeAt',
'clear',
'clearInterval',
```

```
'clearTimeout',
'clearWatch',
'click',
'close',
'closest',
'clz32',
'compile',
'concat',
'confirm',
'constructor',
'contains',
'copyWithin',
cos',
'cosh',
'count'.
'createAttribute',
'createComment',
'createDocumentFragment',
```

```
'createElement',
'createEvent'.
'createTextNode',
'decodeURI',
'decodeURIComponent',
'encodeURI',
'encodeURIComponent',
'endsWith',
'entries',
'error',
'escape',
'eval',
'every',
'exec',
'execCommand',
'exitFullscreen',
'exp',
'expm1',
```

```
'fill',
'filter',
'find',
'fintIndex',
'floor',
'focus',
'forEach',
'forward',
'from',
'fromCharCode',
'fround',
'fullscreenEnabled',
'getDate',
'getDay',
'getAttribute',
'getAttributeNode',
'getBoundingClientRect',
'getComputedStyle',
```

'getCurrentPosition', 'getElementByld', 'getElementsByClassName', 'getElementsByName', 'getElementsByTagName', 'getFullYear', 'getHours', 'getItem', 'getMilliseconds', 'getMinutes', 'getModifierState', 'getMonth', 'getNamedItem', 'getSeconds', 'getSelection', 'getTargetRanges', 'getTime', 'getTimezoneOffset',

'getUTCDate', 'getUTCDay', 'getUTCFullYear', 'getUTCHours', 'getUTCMilliseconds', 'getUTCMinutes', 'getUTCMonth', 'getUTCSeconds', 'getYear', 'go', 'group', 'groupCollapsed', 'groupEnd', 'hasAttribute', 'hasAttributes', 'hasChildNodes', 'hasFocus', 'importNode',

```
'includes',
'indexOf',
'info',
'insertAdjacentElement',
'insertAdjacentHTML',
'insertAdjacentText',
'insertBefore',
'isArray',
'isDefaultNamespace',
'isEqualNode',
'isFinite',
'isInteger',
'isNaN',
'isSafeInteger',
'isSameNode',
'isSupported',
'item',
'join',
```

```
'key',
'keys',
'lastIndexOf',
'localeCompare',
'log',
'log10',
'log1p',
'log2',
'map',
'match',
'matches',
'matchMedia',
'max',
'min',
'moveBy',
'moveTo',
'nameditem',
'normalize',
```

```
'normalizeDocument',
'now'
'Number',
'open',
'parse',
'parseFloat',
'parseInt',
'pop',
'preventDefault',
'print',
'push',
'querySelector',
'querySelectorAll',
'random',
'reduce',
'reduceRight',
'reload',
'remove',
```

```
'removeAttribute',
'removeAttributeNode',
'removeChild',
'removeEventListener',
'removeltem',
'repeat',
'replace',
'replaceChild',
'requestAnimationFrame',
'requestFullscreen',
'resizeBy',
'resizeTo',
'reverse',
'round',
'pow',
'prompt',
'removeEventListener',
'removeNamedItem',
```

'renameNode', 'scroll'. 'scrollBy', 'scrollIntoView'. 'scrollTo'. 'search', 'setAttribute', 'setAttributeNode', 'setDate' 'setFullYear', 'setHours', 'setInterval', 'setItem', 'setMilliseconds', 'setMinutes', 'setMonth', 'setNamedItem', 'setSeconds',

```
'setTime',
'setTimeout',
'setUTCDate',
'setUTCFullYear',
'setUTCHours',
'setUTCMilliseconds',
'setUTCMinutes',
'setUTCMonth',
'setUTCSecond',
'setYear'.
'shift',
'sign',
'sin'.
'sinh',
'slice',
'some',
'sort',
'splice',
```

```
'split',
'startsWith',
'String',
'stop',
'stopImmediatePropagation',
'stopPropagation',
'stringify',
'substr',
'substring',
'table',
'tan',
'tanh',
'test'.
'time',
'timeEnd',
'toDateString',
'toGMTString',
'toExponential',
```

'toFixed', 'toJSON', 'tolSOString', 'toLocaleDateString', 'toLocaleLowerCase', 'toLocaleString', 'toLocaleTimeString', 'toLocaleUpperCase', 'toLowerCase', 'toPrecision', 'toString', 'toTimeString', 'toUpperCase', 'toUTCString', 'trace' 'trim', 'trunc', 'unescape',

```
'unshift',
  'UTC',
  'valueOf',
  'warn',
  'watchPosition',
  'write',
  'writeIn'
];
let theObjects =
  'console',
  'document',
  'window',
  'Date',
  'Math',
  'JSON',
```

```
let codeInput =
document.getElementByld('codeInput');
let codeOutput =
document.getElementByld('codeOutput');
function escapeHtml(code)
  return code.replace(/&/g,
'&').replace(/</g, '&It;').replace(/>/g,
'>');
function highlightCode()
  let code = escapeHtml(codeInput.value);
```

```
let functionPattern = new RegExp(`\\b($)
{theFunctions.join('|')})\\b`, 'g');
  let eventPattern = new RegExp(`\\b($
{theEvents.join('|')})\\b`, 'g');
  let objectPattern = new RegExp(`\\b($
{theObjects.join('|')})\\b`, 'g');
  let highlightedCode =
code.replace(functionPattern, '<span
style="color: yellow;">$1</span>')
  // events
  .replace(eventPattern, '<span
class="flowControl">$1</span>')
  // objects
```

```
.replace(objectPattern, '<span
class="objects">$1</span>')
  // function
  .replace(/\bfunction\b/g, '<span
class="pink">function</span>')
  // let
  .replace(/\blet\b/g, '<span
class="pink">let</span>')
  // new
  .replace(/\bnew\b/g, '<span</pre>
class="pink">new</span>')
  // digits
  .replace(/\d/g, '<span</pre>
class="lightGray">$&</span>')
```

```
// flowControl
  .replace(/\b(if|else|do|while|for|forEach|
break|continue)\b/g, '<span
class="magenta">$1</span>');
  codeOutput.innerHTML = highlightedCode;
codeInput.addEventListener('input',
highlightCode);
codeInput.addEventListener('scroll',
function()
  codeOutput.scrollTop = this.scrollTop;
});
highlightCode();
```

```
codeInput.addEventListener("keydown",
function(event)
{
  if (event.key === "Tab")
    // prevent default tab behavior
    event.preventDefault();
    // get cursor position
    let start = this.selectionStart;
    let end = this.selectionEnd;
    // insert 4 spaces at cursor position
    this.value = this.value.substring(0, start)
     " + this.value.substring(end);
```

```
// move cursor position forward by 4
spaces
    this.selectionStart = this.selectionEnd =
start + 4;
  highlightCode();
});
</script>
</body>
</html>
```

How to Combine
.js files
into one
main.js file
using
Command
Prompt

Version for when we have only ONE folder of .js files that we want to combine.

// HowToCombineJSFilesOneFolder.js

First, we add two new lines at the end of every script. This way they will later combine nicely with a line break in between each script.

We open our js folder.
In our js project folder, we type
cmd
in the address bar of the folder and then
press enter

This opens our js folder in the Command prompt

We type in the words copy *.js main.js and then press enter

This creates a new file that is named main.js
This new file contains all .js files in ONE file.
But, there is a junk character at the end of the
main.js script that we have to delete. In
VSCode the character might be called SUB

```
titleContainer.append(titleOfApp);
}
```

SUB

We remove this junk SUB character and the code will now run.

```
titleContainer.append(titleOfApp);
}
```

As we can see, the junk character is removed.

<!-- Now, in our html code, we can type --> <script src = 'main.js'></script>

This makes it much easier to upload our js code to our website.

How to Combine
.js files
into one
main.js file
using
Command
Prompt

Version for when we have js scripts in subfolders in our js project folder, that we want to combine.

// HowToCombineJSFiles.js TUTORIAL:

How to Combine all .js files in all folders that are in our js folder.

Getting things ready:

We should add two new lines at the end every script. This way they will combine nicely with a line break in between each script.

Step One: Open our js folder

Step Two: Type in the address bar of the js folder, cmd, press Enter

This opens our js folder in the command prompt

Step Three: Type the command shown below in the command prompt and then press Enter

for /r "%CD%" %i in (*.js) do type "%i" >> main.js

Now we have a newly created .js file named main.js that has all of our js files included into one file.

This makes it easy to upload our application and easy to find out how many lines of code our project is.

To use our main.js file, we include it in our html file code:

<script src = 'js/main.js'></script>
Happy Scripting :-)

How to Combine
.js files
into one
main.js file
using
a batch file

Version for when we have js scripts in subfolders in our js project folder, that we want to combine.

// HowToCombineJSFilesUsingBatFile.js

We can combine all of the .js files that are located in our js folder into one main.js file, using either:

The Command Prompt Method or

The .bat File Method

The .bat file method is very easy.
We double click the bat file, which is located in our js folder, and it will make a main.js file, which includes all .js files in the js folder, including all .js files in all subdirectories of our js folder.

This is a very easy way to combine our .js files, because we can double click the .bat file

anytime, and it will again generate the main.js file, which includes all .js files in the js folder, including all .js files in all subdirectories of our js folder. This makes uploading our application online much easier.

Happy Scripting :-)

:: Topalian_Combine_JS_Files.bat

:: This .bat File Combines All .js files in all folders of our project folder, into one main.js file.

:: To activate this .bat file, we double click the .bat file, while it is located in our js folder.

@echo off

:: set the output file name

set "output=main.js"

:: clear existing output file

type nul > "%output%"

echo "JavaScript files combined into

%output% successfully."

How to Combine
.js files
into one
main.js file
using
Node.js

This version will successfully combine a single folder of js files.

It also works to combine js files in all subdirectories.

```
// Topalian Combine JS Files.js
let fs = require('fs');
let path = require('path');
function combineJSFiles(directory,
scriptFilename
{
  let outputFilePath = path.join(directory,
'main.js');
  let fileContents = [];
  function traverseFolder(folder)
     let files = fs.readdirSync(folder);
     for (let i = 0; i < files.length; i++)
```

```
let file = files[i];
        let filePath = path.join(folder, file);
        let stats = fs.statSync(filePath);
       if (stats.isDirectory())
          traverseFolder(filePath);
       else if (path.extname(filePath) === '.js')
          let content =
fs.readFileSync(filePath, 'utf8');
          // check if file is not script file itself
          if (filePath !== scriptFilename)
```

```
fileContents.push(content);
  traverseFolder(directory);
  fs.writeFileSync(outputFilePath,
fileContents.join('\n'), 'utf8');
  console.log(`Combined $
{fileContents.length} .js files into $
{outputFilePath}`);
// get current directory of script
let currentDirectory = process.cwd();
```

```
// get filename of script
let scriptFilename = __filename;
```

combineJSFiles(currentDirectory, scriptFilename); How to Combine
.js files
into one
main.js file
using
Python

This version will successfully combine a single folder of js files.

It also works to combine js files in all subdirectories.

```
# Topalian_Combine_JS_Files.py
import os
def combineJSFiles(directory,
scriptFileName):
  outputFilePath = os.path.join(directory,
'main.js')
  fileContents = []
  def traverseFolder(folder):
     for root, dirs, files in os.walk(folder):
       for file in files:
          filePath = os.path.join(root, file)
          if filePath != scriptFileName and
filePath.endswith('.js'):
            with open(filePath, 'r',
encoding='utf-8') as f:
```

fileContents.append(f.read())

traverseFolder(directory)

```
with open(outputFilePath, 'w',
encoding='utf-8') as f:
    f.write('\n'.join(fileContents))
  print(f"Combined {len(fileContents)} .js
files into {outputFilePath}")
# get current directory of script
currentDirectory =
os.path.dirname(os.path.abspath( file ))
# get filename of script
scriptFileName = os.path.abspath(__file__)
```

combineJSFiles(currentDirectory, scriptFileName)

What other file types can we combine?

We have combined .js files in this book, but we might choose to instead combine:
.py or .html or .txt
This is very useful for book making.
In each of the scripts shown in this book, we can manually change the parts where it says .js, with .py, if we wanted to, for instance, copy all .py files into one main.py file.

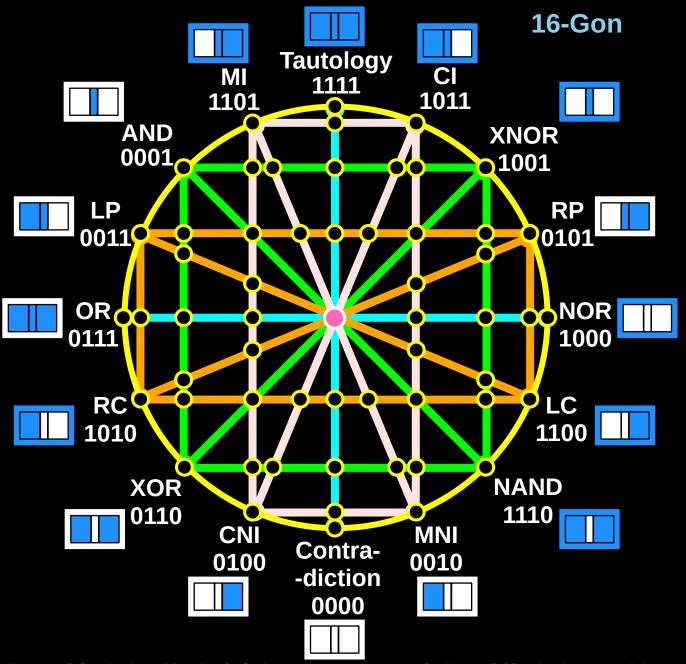
We can do the same thing for .html files, where we change the file type it will be combining to .html and it will combine all .html files into one main.html file.

We add two line breaks at the end of all files, so that there is space between files, when they are combined.

Remember too, that not all file types will combine, but the ones above will.

The original files are not changed. The content from the original files is only copied from.

True Artificial Intelligence System



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Dedicated to God the Father

This book is created by the College of Scripting Music & Science.

Always remember, that each time you write a script with a pencil and paper, it becomes imprinted so deeply in memory that the material and methods are learned extremely well.

When you Type the scripts, the same is true. The more you type and write out the scripts by keyboard or pencil and paper, the more you will learn programming!

Write and Type every example that you find. Keep all of your scripts organized. Every script that you create increases your programming abilities.

SEEING CODE, is one thing,

but WRITING CODE is another.

Write it, Type it, Speak it, See it, Dream it.

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