Topalian JavaScript Filter Functions

by
Christopher Andrew Topalian

Dedicated
to
God the Father

Topalian JavaScript Filter Functions
PLAYING

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AOO Menu

showAll

showAllNames `showAll(people)`

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

Original Array

```
[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
 ame":"Tabitha","date":"1983/03/05 12:30 PM"},
 {"name":"Jane","date":"1977/05/22 1:30 AM"}]
```

Result

```
[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
 {"name":"Tabitha","date":"1983/03/05 12:30 PM"},
 {"name":"Jane","date":"1977/05/22 1:30 AM"}]
```

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)	showAllNames(people)	showAllDates(people)
filterByName(people, 'Melissa')	filterByDate(people, '1983/03/05')	filterBeforeDate(people, '1982/02/05')
filterAfterDate(people, '1981/02/05')	filterByYear(people, '1983')	filterByMonth(people, '03')
filterByYearMonth(people, '1983/03')	filterByMonthDay(people, '3', '5')	filterByDateTime(people, '1980/03/01

Topalian JavaScript Filter Functions

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AOO Menu

showAll

showAllNames

showAllDates   showAllNames(people)

filterByName

filterByDate

filterBeforeDate

filterAfterDate

Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
':"Jane","date":"1977/05/22 1:30 AM"}]

Result

["Melissa","Tabitha","Jane"]

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)

showAllNames(people)

showAllDates(people)

filterByName(people, 'Melissa')

filterByDate(people, '1983/03/05')

filterBeforeDate(people, '1982/02/05')

filterAfterDate(people, '1981/02/05')

filterByYear(people, '1983')

filterByMonth(people, '03')

filterByYearMonth(people, '1983/03')

filterByMonthDay(people, '3', '5')

filterByDateTime(people, '1980/03/01

Topalian JavaScript Filter Functions

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AOO Menu

showAll

showAllNames

showAllDates

filterByName   showAllDates(people)

filterByDate

filterBeforeDate

filterAfterDate

Original Array

```
[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]
```

Result

```
["1980/03/01 9:30 PM","1983/03/05 12:30
PM","1977/05/22 1:30 AM"]
```

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)   showAllNames(people)   showAllDates(people)

filterByName(people, 'Melissa')   filterByDate(people, '1983/03/05')   filterBeforeDate(people, '1982/02/05')

filterAfterDate(people, '1981/02/05') filterByYear(people, '1983')   filterByMonth(people, '03')

filterByYearMonth(people, '1983/03')   filterByMonthDay(people, '3', '5')   filterByDateTime(people, '1980/03/01

Topalian JavaScript Filter Functions

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showAllNames

showAllDates

filterByName

filterByDate

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filterAfterDate

Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]

filterByName(people, 'Melissa')

Result

[{"name":"Melissa","date":"1980/03/01 9:30 PM"}]

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

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filterAfterDate

showAll(people)

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filterByName(people, 'Melissa')

filterByDate(people, '1983/03/05')

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filterByMonth(people, '03')

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filterByMonthDay(people, '3', '5')

filterByDateTime(people, '1980/03/01

Topalian JavaScript Filter Functions

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100%

showAllDates

filterByName

filterByDate

filterBeforeDat   filterByDate(people, '1983/03/05')

filterAfterDate

filterByYear

filterByMonth

Non AOO Menu

showAll

showAllNames

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filterBeforeDate

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Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]

Result

[{"name":"Tabitha","date":"1983/03/05 12:30 PM"}]

showAll(people)

showAllNames(people)

showAllDates(people)

filterByName(people, 'Melissa')

filterByDate(people, '1983/03/05')

filterBeforeDate(people, '1982/02/05')

filterAfterDate(people, '1981/02/05')

filterByYear(people, '1983')

filterByMonth(people, '03')

filterByYearMonth(people, '1983/03')

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filterByDateTime(people, '1980/03/01

Topalian JavaScript Filter Functions

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100%

showAllDates
filterByName
filterByDate
filterBeforeDate
filterAfterDate
filterByYear
filterByMonth

Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]

filterBeforeDate(people, '1982/02/05')

Result

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]

Non AOO Menu

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showAll(people)
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showAllDates(people)
filterByName(people, 'Melissa')
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showAllDates
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filterByYear
filterByMonth

Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]

filterAfterDate(people, '1981/02/05')

[{"name":"Tabitha","date":"1983/03/05 12:30 PM"}]

Non AOO Menu

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showAll(people)
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filterByName(people, 'Melissa')
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filterByMonthDay(people, '3', '5')
filterByDateTime(people, '1980/03/01

Topalian JavaScript Filter Functions

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filterBeforeDate
filterAfterDate
filterByYear
filterByMonth   filterByYear(people, '1983')
filterByYearMonth
filterByMonthDay
filterByDateTime

Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]

Result

[{"name":"Tabitha","date":"1983/03/05 12:30 PM"}]

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filterByDateTime(people, '1980/03/01

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filterBeforeDate

filterAfterDate

filterByYear

filterByMonth

filterByYearMon | filterByMonth(people, '03')

filterByMonthDay

filterByDateTime

Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
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showAll(people)

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filterByName(people, 'Melissa')

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Topalian JavaScript Filter Functions

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Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]

filterBeforeDate
filterAfterDate
filterByYear
filterByMonth
filterByYearMonth
filterByMonthD   filterByYearMonth(people, '1983/03')
filterByDateTime

Result

[{"name":"Tabitha","date":"1983/03/05 12:30 PM"}]

Non AOO Menu
showAll
showAllNames
showAllDates
filterByName
filterByDate
filterBeforeDate
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showAll(people)   showAllNames(people)   showAllDates(people)

filterByName(people, 'Melissa')   filterByDate(people, '1983/03/05')   filterBeforeDate(people, '1982/02/05')

filterAfterDate(people, '1981/02/05') filterByYear(people, '1983')   filterByMonth(people, '03')

filterByYearMonth(people, '1983/03')   filterByMonthDay(people, '3', '5') filterByDateTime(people, '1980/03/01

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Original Array

[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
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Result

...e":"Tabitha","date":"1983/03/05 12:30 PM"}]

filterBeforeDate
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showAll(people)
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filterByName(people, 'Melissa')
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Original Array

filterBeforeDate

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filterByYear

filterByMonth

filterByYearMonth

filterByMonthDay

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Non AOO Menu

showAll

showAllNames

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```
[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]
```

Result

```
[{"name":"Melissa","date":"1980/03/01 9:30 PM"}]
```

filterByDateTime(people, '1980/03/01 9:30 PM')

showAll(people)

showAllNames(people)

showAllDates(people)

filterByName(people, 'Melissa')

filterByDate(people, '1983/03/05')

filterBeforeDate(people, '1982/02/05')

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[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
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[{"name":"Tabitha","date":"1983/03/05 12:30 PM"}]

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showAllNames

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filterByName

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showAll(people)

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showAllDates(people)

filterByName(people, 'Tabitha')

filterByDate(people, '1983/03/05')

filterBeforeDate(people, '1982/02/05')

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filterByYear(people, '1983')

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Result

[{"name":"Tabitha","date":"1983/03/05 12:30 PM"}]

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showAll(people)

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filterByName(people, 'Tabitha')

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filterBeforeDate(people, '1982/02/05')

filterAfterDate(people, '1981/02/05')

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[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
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Result

[{"name":"Melissa","date":"1980/03/01 9:30 PM"}]

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

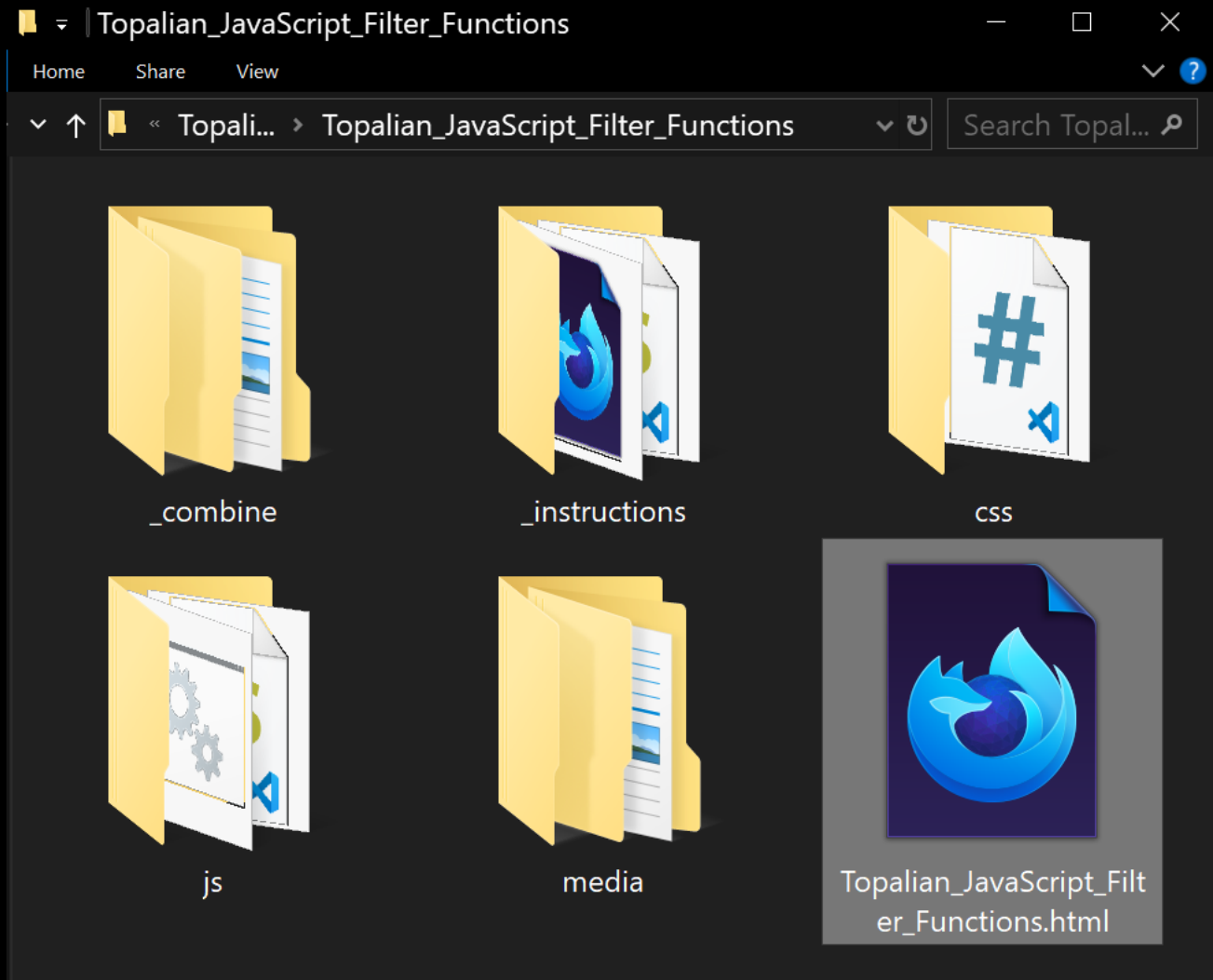filterBeforeDate

filterAfterDate

showAll(people)

showAllNames(people)
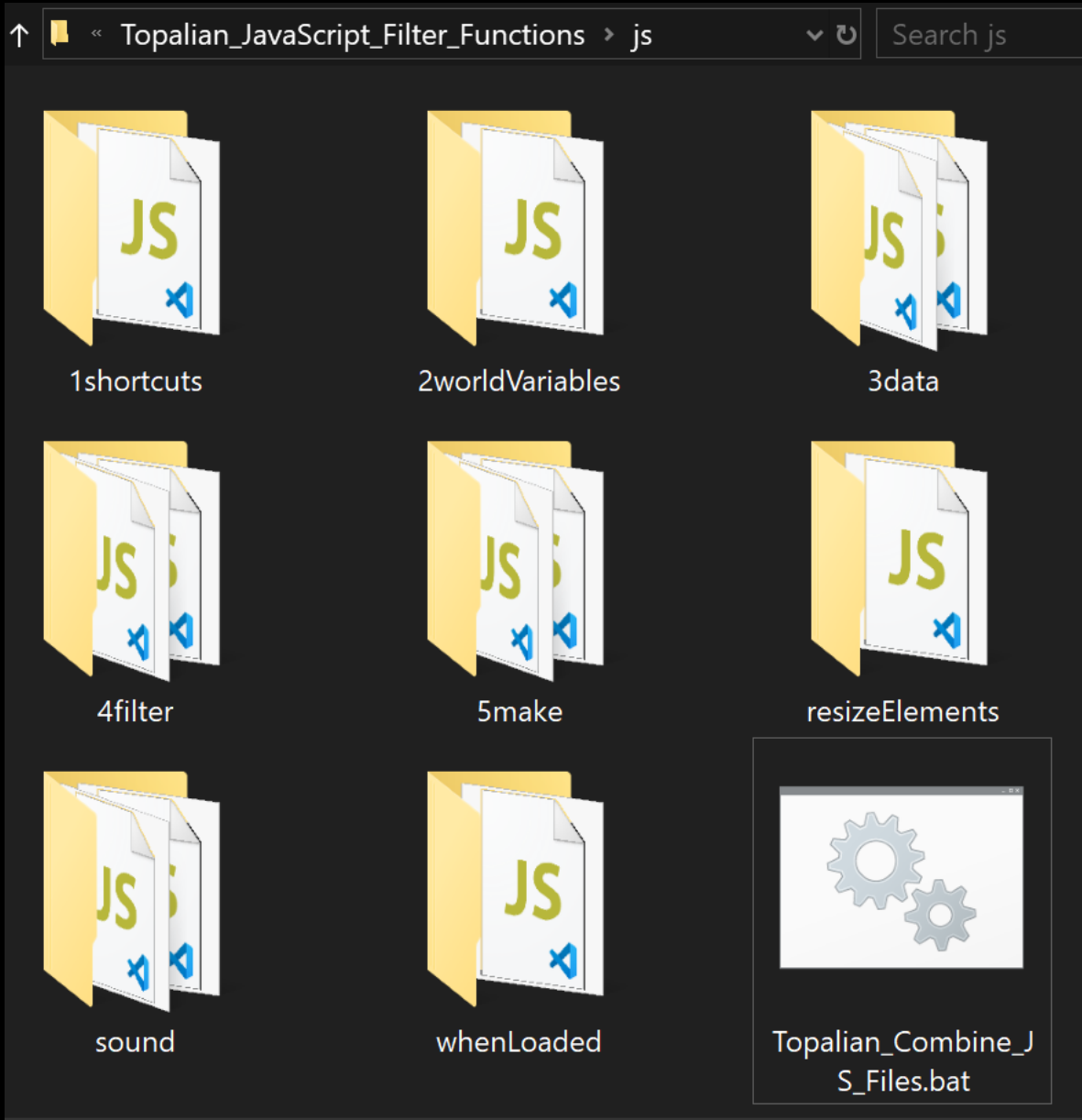
showAllDates(people)

filterByName(people, 'Tabitha')

filterByDate(people, '1980/03/01')

filterBeforeDate(people, '1982/02/05')

filterAfterDate(people, '1981/02/05')

filterByYear(people, '1983')

filterByMonth(people, '03')

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[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
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```

Result

```
[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
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```

Non AOO Menu

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filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)

showAllNames(people)

showAllDates(people)

filterByName(people, 'Tabitha')

filterByDate(people, '1983/03/05')

filterBeforeDate(people, '1982/02/05')

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[{"name":"Melissa","date":"1980/03/01 9:30 PM"},
{"name":"Tabitha","date":"1983/03/05 12:30 PM"},
{"name":"Jane","date":"1977/05/22 1:30 AM"}]
```

Result

```
[{"name":"Jane","date":"1977/05/22 1:30 AM"}]
```

Non AOO Menu

showAll

showAllNames

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filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)

showAllNames(people)

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filterByName(people, 'Tabitha')

filterByDate(people, '1983/03/05')

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Topalian_JavaScript_Filter_Functions

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Search js

1shortcuts

2worldVariables

3data

4filter

5make

resizeElements

sound

whenLoaded

Topalian_Combine_JS_Files.bat

```
<!-- 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_Filter_Functions.html --
>

<!-- Version 001 - (2024-05-23) -->
```

```
<html>
<head>
<title> Topalian JavaScript Filter Functions
</title>

<link rel = 'stylesheet' href =
'css/style001.css'>

<script src =
'js/1shortcuts/1shortcuts.js'></script>

<script src =
'js/2worldVariables/worldVariables.js'></scrip
t>

<script src = 'js/3data/people.js'></script>
```

```
<script src =
'js/3data/theFunctions.js'></script>

<script src = 'js/4filter/showAll.js'></script>

<script src =
'js/4filter/showAllNames.js'></script>

<script src =
'js/4filter/showAllDates.js'></script>

<script src =
'js/4filter/filterBeforeDate.js'></script>

<script src =
'js/4filter/filterAfterDate.js'></script>
```

```html
<script src =
'js/4filter/filterByName.js'></script>

<script src =
'js/4filter/filterByDate.js'></script>

<script src =
'js/4filter/filterByYear.js'></script>

<script src =
'js/4filter/filterByMonth.js'></script>

<script src =
'js/4filter/filterByYearMonth.js'></script>

<script src =
'js/4filter/filterByMonthDay.js'></script>
```

```
<script src =
'js/4filter/filterByDateTime.js'></script>

<script src =
'js/5make/makeMenuLeft.js'></script>

<script src =
'js/5make/makeMenuRight.js'></script>

<script src =
'js/5make/makeInputs.js'></script>

<script src =
'js/5make/makeTitleOfApp.js'></script>

<script src =
'js/5make/makeCenterContainer.js'></script>
```

```html
<script src = 'js/sound/sounds.js'></script>

<script src =
'js/sound/loadSounds.js'></script>

<script src = 'js/sound/audioPlay.js'></script>

<script src =
'js/whenLoaded/whenLoaded.js'></script>

<script src =
'js/resizeElements/resizeElements.js'></script
>


</head>

<body onload = 'whenLoaded();'>
```

```html
</body>

</html>
```

```css
/* Dedicated to God the Father */

/* All Rights Reserved Christopher Andrew
Topalian Copyright 2000-2024 */

/* https://github.com/ChristopherTopalian */

/*
https://github.com/ChristopherAndrewTopalia
n */

/* style001.css */

body
{
    background-color: rgb(40, 40, 40);
    font-family: Arial;
    font-size: 20px;
```

```css
        font-weight: bold;
        color: rgb(255, 255, 255);
}


a
{
        color: rgb(100, 100, 100);
        text-decoration: none;
}


a:hover
{
        text-decoration: underline;
}


input
{
        width: 275px;
```

```css
        margin: 2px;
        padding-left: 10px;
        padding-right: 10px;
        padding-top: 2px;
        padding-bottom: 2px;
        border: solid 1px rgb(100, 100, 100);
        border-radius: 8px;
        background-color: rgb(0, 0, 0);
        font-size: 15px;
        color: rgb(255, 255, 255);
        cursor: pointer;
}


input:hover
{
        border-color: rgb(0, 255, 255);
}
```

```css
input:active
{
    border-color: rgb(255, 0, 255);
}

.inputContainer
{
    display: grid;
    grid-template-columns: repeat(3, 1fr);
    gap: 0.5px;
}

.buttonStyle001
{
    width: 90hw;
    margin: 2px;
    padding-left: 10px;
    padding-right: 10px;
```

```css
        padding-top: 2px;
        padding-bottom: 2px;
        border: solid 1px rgb(100, 100, 100);
        border-radius: 8px;
        background-color: rgb(0, 0, 0);
        font-size: 15px;
        color: rgb(255, 255, 255);
        cursor: pointer;
        box-sizing: border-box;
}


.buttonStyle001:hover
{
        border-color: rgb(0, 255, 255);
}


.buttonStyle001:active
{
```

```css
        border-color: rgb(255, 0, 255);
}


#resultLabel
{
    margin-left: 4px;
    color: rgb(0, 255, 255);
}


#resultDiv
{
    margin-left: 4px;
    padding: 10px;
}


#originalArrayLabel
{
    margin-left: 4px;
```

```css
        color: rgb(0, 255, 255);
}


#originalArrayDiv
{
    margin-left: 4px;
    padding: 10px;
    color: rgb(200, 200, 200);
    overflow-y: scroll;
}

* {
    scrollbar-width: thin;
    scrollbar-color: rgb(100, 100, 100) rgb(0, 0,
0);
}
```

```
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// shortcuts.js

function ge(whichId)
{
    let result =
document.getElementById(whichId);
```

```
        return result;
    }


function ce(whichType)
{
    let result =
document.createElement(whichType);

        return result;
    }


function ba(whichElement)
{
    let result =
document.body.append(whichElement);

        return result;
    }
```

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// worldVariables.js

```javascript
let online = false;
```

```
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// people.js

let people =
[
    {
        name: 'Melissa',
        date: '1980/03/01 9:30 PM',
```

```
    },


    {

        name: 'Tabitha',
        date: '1983/03/05 12:30 PM'
    },


    {

        name: 'Jane',
        date: '1977/05/22 1:30 AM'
    }
];
```

```javascript
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// theFunctions.js

let theFunctions =
[
    {
        name: `showAll`,
        functionName: `showAll(people)`,
```

```
    },


    {

        name: `showAllNames`,
        functionName: `showAllNames(people)`,
    },


    {

        name: `showAllDates`,
        functionName: `showAllDates(people)`,
    },


    {

        name: `filterByName`,
        functionName: `filterByName(people,
'Melissa')`,
    },
```

```
    {
        name: `filterByDate`,
        functionName: `filterByDate(people,
'1983/03/05')`,
    },


    {

        name: `filterBeforeDate`,
        functionName: `filterBeforeDate(people,
'1982/02/05')`,
    },


    {

        name: `filterAfterDate`,
        functionName: `filterAfterDate(people,
'1981/02/05')`,
    },
```

```
    {
        name: `filterByYear`,
        functionName: `filterByYear(people,
'1983')`,
    },


    {

        name: `filterByMonth`,
        functionName: `filterByMonth(people,
'03')`,
    },


    {

        name: `filterByYearMonth`,
        functionName:
`filterByYearMonth(people, '1983/03')`,
    },
```

```
    {
        name: `filterByMonthDay`,
        functionName:
`filterByMonthDay(people, '3', '5')`,
    },


    {

        name: `filterByDateTime`,
        functionName: `filterByDateTime(people,
'1980/03/01 9:30 PM')`,
    },
];
```

```
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n

// filterAfterDate.js

function filterAfterDate(whichArray,
whichDate)
{
    let result = [];
```

```
for (let z = 0; z < whichArray.length; z++)
{
    if (people[z].date > whichDate)
    {
        result.push(whichArray[z]);
    }
}

return result;
}
```

```
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n

// filterBeforeDate.js

function filterBeforeDate(whichArray,
whichDate)
{
    let result = [];
```

```
for (let z = 0; z < whichArray.length; z++)
{
    if (people[z].date < whichDate)
    {
        result.push(whichArray[z]);
    }
}

return result;
}
```

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n

// filterByDate.js

function filterByDate(whichArray, whichDate)
{
    let result = [];

    for (let z = 0; z < whichArray.length; z++)
```

```
{
    let parts = whichArray[z].date.split(' ');

    if (parts[0] === whichDate)
    {
        result.push(whichArray[z]);
    }
}

return result;
}
```

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n

// filterByDateTime.js

function filterByDateTime(whichArray,
whichDate)
{
    let result = [];
```

```
for (let z = 0; z < whichArray.length; z++)
{
    if (whichArray[z].date === whichDate)
    {
        result.push(whichArray[z]);
    }
}

return result;
}
```

```
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n

// filterByMonth.js

function filterByMonth(whichArray,
whichMonth)
{
    let result = [];
```

```
for (let z = 0; z < whichArray.length; z++)
{
    let parts = people[z].date.split('/');

    if (parts[1] === whichMonth)
    {
        result.push(whichArray[z]);
    }
}

return result;
}
```

```
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// filterByMonthDay.js

function filterByMonthDay(whichArray,
whichMonth, whichDay)
{
    let result = [];
```

```javascript
for (let z = 0; z < whichArray.length; z++)
{
    let parts = whichArray[z].date.split(' ');

    let datePart = parts[0];

    let month = datePart.substring(5, 7);

    let day = datePart.substring(8, 10);

    if (whichMonth.length === 1)
    {
        whichMonth = '0' + whichMonth;
    }
    if (whichDay.length === 1)
    {
        whichDay = '0' + whichDay;
    }
```

```
        if (month === whichMonth && day ===
whichDay)
        {
            result.push(whichArray[z]);
        }
    }


    return result;
}
```

```
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n

// filterByName.js

function filterByName(whichArray,
whichName)
{
    let result = [];
```

```javascript
   for (let z = 0; z < whichArray.length; z++)
   {
      if (whichArray[z].name === whichName)
      {
         result.push(whichArray[z]);
      }
   }

   return result;
}
```

```javascript
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n

// filterByYear.js

function filterByYear(whichArray, whichYear)
{
    let result = [];

    for (let z = 0; z < whichArray.length; z++)
```

```
    {

        if (people[z].date.startsWith(whichYear))
        {

            result.push(whichArray[z]);
        }
    }


    return result;
}
```

```
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n

// filterByYearMonth.js

function filterByYearMonth(whichArray,
whichYearMonth)
{
    let result = [];
```

```
for (let z = 0; z < whichArray.length; z++)
{
    if
(people[z].date.startsWith(whichYearMonth))
    {
        result.push(whichArray[z]);
    }
}


return result;
}
```

```
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n

// showAll.js

function showAll(whichArray)
{
    let result = [];

    for (let z = 0; z < whichArray.length; z++)
```

```
    {
        result.push(whichArray[z]);
    }

    return result;
}
```

```javascript
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n

// showAllDates.js

function showAllDates(whichArray)
{
    let result = [];

    for (let z = 0; z < whichArray.length; z++)
```

```
    {

        result.push(whichArray[z].date);
    }


    return result;
}
```

```javascript
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n

// showAllNames.js

function showAllNames(whichArray)
{
    let result = [];

    for (let z = 0; z < whichArray.length; z++)
```

```
    {
        result.push(whichArray[z].name);
    }

    return result;
}
```

```
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// makeCenterContainer.js

function makeCenterContainer()
{
    // centerContainer
    let centerContainer = ce('div');
    centerContainer.id = 'centerContainer';
```

```javascript
    centerContainer.style.position = 'fixed';
    centerContainer.style.left =
ge('leftMenu_buttonsContainer').style.right +
160 + 'px';
    centerContainer.style.top = '2px';
    centerContainer.style.overflowX = 'scroll';
    ba(centerContainer);

    // originalArrayLabel
    let originalArrayLabel = ce('div');
    originalArrayLabel.id =
'originalArrayLabel';
    originalArrayLabel.textContent = 'Original
Array';
    originalArrayLabel.style.fontSize = '16px';

centerContainer.append(originalArrayLabel);
```

```
//-//

// originalArrayDiv
let originalArrayDiv = ce('div');
originalArrayDiv.id = 'originalArrayDiv';
originalArrayDiv.textContent =
JSON.stringify(people);
originalArrayDiv.style.width = '450px';
originalArrayDiv.style.height = '100px';
originalArrayDiv.style.border = 'solid 1px
rgb(100, 100, 100)';
originalArrayDiv.style.overflowY = 'scroll';
centerContainer.append(originalArrayDiv);

//-//

let hr001 = ce('br');
hr001.style.lineHeight = '5px';
```

```
centerContainer.append(hr001);

//-//

// resultLabel
let resultLabel = ce('div');
resultLabel.id = 'resultLabel';
resultLabel.textContent = 'Result';
resultLabel.style.fontSize = '16px';
centerContainer.append(resultLabel);

//-//

// resultDiv
let resultDiv = ce('div');
resultDiv.id = 'resultDiv';
resultDiv.textContent = 'Result';
resultDiv.style.width = '450px';
```

```
    resultDiv.style.height = '100px';
    resultDiv.style.border = 'solid 1px rgb(100,
100, 100)';
    resultDiv.style.overflowY = 'scroll';
    centerContainer.append(resultDiv);
}
```

```javascript
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n

// makeInputs.js

function makeInputs(whichArray)
{
    // inputContainer
    let inputContainer = ce('div');
    inputContainer.id = 'inputContainer';
```

```
    inputContainer.className =
'inputContainer';
    inputContainer.style.position = 'fixed';
    inputContainer.style.left = '10px';
    inputContainer.style.top =
ge('resultDiv').getBoundingClientRect().botto
m + 20 + 'px';
    inputContainer.style.height = '100px';
    inputContainer.style.overflowY = 'scroll';
    inputContainer.style.zIndex = 2;
    ba(inputContainer);

    //-//

    for (let x = 0; x < whichArray.length; x++)
    {
        let theInput = ce('input');
        theInput.id = whichArray[x].name;
```

```
        theInput.value =
whichArray[x].functionName;
        theInput.onkeyup = function()
        {
            audioPlay('sfx_blip_001', 1.0);

            ge('resultDiv').innerHTML =
JSON.stringify(eval(theInput.value));
        };
        theInput.onmouseover = function()
        {
            audioPlay('sfx_warp_001', 1.0);
        };
        theInput.onclick = function()
        {
            audioPlay('sfx_blip_001', 1.0);
```

```
        ge('resultDiv').innerHTML =
JSON.stringify(eval(theInput.value));
    };
    inputContainer.append(theInput);
  }
}
```

```
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// makeMenuLeft.js

// makes our menu of buttons using the array
of objects named theFunctions

function makeMenuLeft(whichArray)
{
```

```
let nameSpace = 'leftMenu_';

//-//

// buttonsContainer
let buttonsContainer = ce('div');
buttonsContainer.id = nameSpace +
'buttonsContainer';
buttonsContainer.style.display = 'flex';
buttonsContainer.style.flexDirection =
'column';
buttonsContainer.style.overflowY = 'scroll';
buttonsContainer.style.position = 'fixed';
buttonsContainer.style.left = '0px';
buttonsContainer.style.top = '5px';
buttonsContainer.style.height = '200px';
ba(buttonsContainer);
```

```
//-//

let aooLabel = ce('div');
aooLabel.textContent = 'AOO Menu';
aooLabel.style.fontSize = '16px';
aooLabel.style.margin = 'auto';
buttonsContainer.append(aooLabel);

//-//

for (let x = 0; x < whichArray.length; x++)
{
    // theButton
    let theButton = ce('button');
    theButton.id = nameSpace  +
 whichArray[x].name;
    theButton.className = 'buttonStyle001';
```

```
        theButton.title =
whichArray[x].functionName;
        theButton.textContent =
whichArray[x].name;
        theButton.onmouseover = function()
        {
            audioPlay('sfx_warp_001', 1.0);
        };
        theButton.onclick = function()
        {
            audioPlay('sfx_blip_001', 1.0);

            ge('resultDiv').innerHTML =
JSON.stringify(eval(whichArray[x].functionNa
me));
        };
        buttonsContainer.append(theButton);
    }
```

}

```javascript
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// makeMenuRight.js

// makes our menu of buttons without using
an array of objects

function makeMenuRight()
{
```

```
let nameSpace = 'rightMenu_';

// buttonsContainer
let buttonsContainer = ce('div');
buttonsContainer.id = nameSpace +
'buttonsContainer';
buttonsContainer.style.position = 'fixed';
buttonsContainer.style.right = '0px';
buttonsContainer.style.top = '5px';
buttonsContainer.style.height = '200px';
buttonsContainer.style.display = 'flex';
buttonsContainer.style.flexDirection =
'column';
buttonsContainer.style.overflowY = 'scroll';
ba(buttonsContainer);

//-//
```

```javascript
    let nonAOOLabel = ce('div');
    nonAOOLabel.textContent = 'Non AOO
Menu';
    nonAOOLabel.style.fontSize = '16px';
    nonAOOLabel.style.margin = 'auto';
    buttonsContainer.append(nonAOOLabel);

    //-//

    // showAllButton
    let showAllButton = ce('button');
    showAllButton.className =
'buttonStyle001';
    showAllButton.id = nameSpace +
'showAllButton';
    showAllButton.textContent = 'showAll';
    showAllButton.title = 'showAll(people)';
    showAllButton.onmouseover = function()
```

```
    {
        audioPlay('sfx_warp_001', 1.0);
    };
    showAllButton.onclick = function()
    {
        audioPlay('sfx_blip_001', 1.0);

        ge('resultDiv').innerHTML =
JSON.stringify(showAll(people));
    };
    buttonsContainer.append(showAllButton);

    //-//

    // showAllNamesButton
    let showAllNamesButton = ce('button');
    showAllNamesButton.className =
'buttonStyle001';
```

```javascript
    showAllNamesButton.id = nameSpace +
'showAllNamesButton';
    showAllNamesButton.textContent =
'showAllNames';
    showAllNamesButton.title =
'showAllNames(people)';
    showAllNamesButton.onmouseover =
function()
    {
       audioPlay('sfx_warp_001', 1.0);
    };
    showAllNamesButton.onclick = function()
    {
       audioPlay('sfx_blip_001', 1.0);

       ge('resultDiv').innerHTML =
JSON.stringify(showAllNames(people));
    };
```

```
buttonsContainer.append(showAllNamesButt
on);

//-//

// showAllDatesButton
let showAllDatesButton = ce('button');
showAllDatesButton.className =
'buttonStyle001';
showAllDatesButton.id = nameSpace +
'showAllDatesButton';
showAllDatesButton.textContent =
'showAllDates';
showAllDatesButton.title =
'showAllDates(people)';
showAllDatesButton.onmouseover =
function()
```

```
    {
        audioPlay('sfx_warp_001', 1.0);
    };
    showAllDatesButton.onclick = function()
    {
        audioPlay('sfx_blip_001', 1.0);

        ge('resultDiv').innerHTML =
JSON.stringify(showAllDates(people));
    };

buttonsContainer.append(showAllDatesButto
n);

    //-//

    // filterByNameButton
    let filterByNameButton = ce('button');
```

```
    filterByNameButton.className =
'buttonStyle001';
    filterByNameButton.id = nameSpace +
'filterByNameButton';
    filterByNameButton.textContent =
'filterByName';
    filterByNameButton.title =
'filterByName(people, "Melissa")';
    filterByNameButton.onmouseover =
function()
    {
        audioPlay('sfx_warp_001', 1.0);
    };
    filterByNameButton.onclick = function()
    {
        audioPlay('sfx_blip_001', 1.0);
```

```
      ge('resultDiv').innerHTML =
JSON.stringify(filterByName(people,
'Melissa'));
    };


buttonsContainer.append(filterByNameButto
n);


    //-//


    // filterByDateButton
    let filterByDateButton = ce('button');
    filterByDateButton.className =
'buttonStyle001';
    filterByDateButton.id = nameSpace +
'filterByDateButton';
    filterByDateButton.textContent =
'filterByDate';
```

```
    filterByDateButton.title =
'filterByDate(people, "1983/03/05")';
    filterByDateButton.onmouseover =
function()
    {
        audioPlay('sfx_warp_001', 1.0);
    };
    filterByDateButton.onclick = function()
    {
        audioPlay('sfx_blip_001', 1.0);

        ge('resultDiv').innerHTML =
JSON.stringify(filterByDate(people,
'1983/03/05'));
    };

buttonsContainer.append(filterByDateButton)
;
```

```javascript
//-//

// filterBeforeDateButton
let filterBeforeDateButton = ce('button');
filterBeforeDateButton.className =
'buttonStyle001';
filterBeforeDateButton.id = nameSpace +
'filterBeforeDateButton';
filterBeforeDateButton.textContent =
'filterBeforeDate';
filterBeforeDateButton.title =
'filterBeforeDate(people, "1982/02/05")';
filterBeforeDateButton.onmouseover =
function()
{
    audioPlay('sfx_warp_001', 1.0);
};
```

```
filterBeforeDateButton.onclick = function()
{
    audioPlay('sfx_blip_001', 1.0);

    ge('resultDiv').innerHTML =
JSON.stringify(filterBeforeDate(people,
'1982/02/05'));
    };

buttonsContainer.append(filterBeforeDateBut
ton);

    //-//

    // filterAfterDateButton
    let filterAfterDateButton = ce('button');
    filterAfterDateButton.className =
'buttonStyle001';
```

```
    filterAfterDateButton.id = nameSpace +
'filterAfterDateButton';
    filterAfterDateButton.textContent =
'filterAfterDate';
    filterAfterDateButton.title =
'filterAfterDate(people, "1981/02/05")';
    filterAfterDateButton.onmouseover =
function()
    {
        audioPlay('sfx_warp_001', 1.0);
    };
    filterAfterDateButton.onclick = function()
    {
        audioPlay('sfx_blip_001', 1.0);

        ge('resultDiv').innerHTML =
JSON.stringify(filterAfterDate(people,
'1981/02/05'));
```

```
    };

buttonsContainer.append(filterAfterDateButton);

    //-//

    // filterByYearButton
    let filterByYearButton = ce('button');
    filterByYearButton.className =
'buttonStyle001';
    filterByYearButton.id = nameSpace +
'filterByMonthButton';
    filterByYearButton.textContent =
'filterByYear';
    filterByYearButton.title =
'filterByYear(people, "1983")';
```

```
    filterByYearButton.onmouseover =
function()
    {
        audioPlay('sfx_warp_001', 1.0);
    };
    filterByYearButton.onclick = function()
    {
        audioPlay('sfx_blip_001', 1.0);

        ge('resultDiv').innerHTML =
JSON.stringify(filterByYear(people, '1983'));
    };

buttonsContainer.append(filterByYearButton)
;

    //-//
```

```javascript
// filterByMonthButton
let filterByMonthButton = ce('button');
filterByMonthButton.className =
'buttonStyle001';
filterByMonthButton.id = nameSpace +
'filterByMonthButton';
filterByMonthButton.textContent =
'filterByMonth';
filterByMonthButton.title =
'filterByMonth(people, "03")';
filterByMonthButton.onmouseover =
function()
{
    audioPlay('sfx_warp_001', 1.0);
};
filterByMonthButton.onclick = function()
{
    audioPlay('sfx_blip_001', 1.0);
```

```
        ge('resultDiv').innerHTML =
JSON.stringify(filterByMonth(people, '03'));
    };


buttonsContainer.append(filterByMonthButton);


    //-//


    // filterByYearMonthButton
    let filterByYearMonthButton = ce('button');
    filterByYearMonthButton.className =
'buttonStyle001';
    filterByYearMonthButton.id = nameSpace +
'filterByYearMonthButton';
    filterByYearMonthButton.textContent =
'filterByYearMonth';
```

```
    filterByYearMonthButton.title =
'filterByYearMonth(people, "1983/03")';
    filterByYearMonthButton.onmouseover =
function()
    {
       audioPlay('sfx_warp_001', 1.0);
    };
    filterByYearMonthButton.onclick =
function()
    {
       audioPlay('sfx_blip_001', 1.0);

       ge('resultDiv').innerHTML =
JSON.stringify(filterByYearMonth(people,
'1983/03'));
    };
```

```
buttonsContainer.append(filterByYearMonthB
utton);

   //-//

   // filterByMonthDayButton
   let filterByMonthDayButton = ce('button');
   filterByMonthDayButton.className =
'buttonStyle001';
   filterByMonthDayButton.id = nameSpace +
'filterByMonthDayButton';
   filterByMonthDayButton.textContent =
'filterByMonthDay';
   filterByMonthDayButton.title =
'filterByMonthDay(people, "3", "5")';
   filterByMonthDayButton.onmouseover =
function()
```

```
    {
        audioPlay('sfx_warp_001', 1.0);
    };
    filterByMonthDayButton.onclick =
function()
    {
        audioPlay('sfx_blip_001', 1.0);

        ge('resultDiv').innerHTML =
JSON.stringify(filterByMonthDay(people, '3',
'5'));
    };


buttonsContainer.append(filterByMonthDayB
utton);


    //-//
```

```
// filterByDateTimeButton
let filterByDateTimeButton = ce('button');
filterByDateTimeButton.className =
'buttonStyle001';
filterByDateTimeButton.id = nameSpace +
'filterByDateTimeButton';
filterByDateTimeButton.textContent =
'filterByDateTime';
filterByDateTimeButton.title =
'filterByDateTime(people, "1980/03/01 9:30
PM")';
filterByDateTimeButton.onmouseover =
function()
{
    audioPlay('sfx_warp_001', 1.0);
};
filterByDateTimeButton.onclick = function()
{
```

```
        audioPlay('sfx_blip_001', 1.0);

        ge('resultDiv').innerHTML =
JSON.stringify(filterByDateTime(people,
'1980/03/01 9:30 PM'));
    };


buttonsContainer.append(filterByDateTimeBu
tton);
}
```

```
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n

// makeTitleOfApp.js

function makeTitleOfApp()
{
    // titleContainer
    let titleContainer = ce('div');
    titleContainer.style.position = 'absolute';
```

```
titleContainer.style.right = '10px';
titleContainer.style.bottom = '4px';
titleContainer.style.zIndex = 1;
ba(titleContainer);

//-//

// titleOfApp
let titleOfApp = ce('div');
titleOfApp.id = 'titleOfApp';
titleOfApp.innerHTML =
  `<a href =
'https://github.com/christophertopalian/topali
an_javascript_filter_functions' target =
'_blank'> Topalian JavaScript Filter Functions
</a>`;
titleOfApp.style.fontSize = '17px';
titleContainer.append(titleOfApp);
```

}

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// resizeElements.js

```javascript
function resizeElements()
{
    ge('originalArrayDiv').style.width = (window.innerWidth - 348) + 'px';
```

```
    ge('resultDiv').style.width =
(window.innerWidth - 348) + 'px';

    ge('inputContainer').style.width =
(window.innerWidth - 20) + 'px';
}

window.onresize = function()
{
    resizeElements();
};
```

```javascript
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// audioPlay.js

function audioPlay(whichId, whichVolume)
{
    let audio = ge(whichId);

    if (audio)
```

```
    {

        audio.volume = whichVolume;
        audio.play();
    }
}
```

```javascript
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// loadSounds.js

function loadSounds(whichArray)
{
    for (let x = 0; x < whichArray.length; x++)
    {
        let theSound = ce('audio');
```

```
if (online == false)
{
    theSound.src =
whichArray[x].soundFileOffline;
}
else
{
    theSound.src =
whichArray[x].soundFileOnline;
}

theSound.id = whichArray[x].name;
theSound.loop = false;
theSound.volume = 1.0;
ba(theSound);
  }
}
```

```
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// sounds.js

let sounds =
[
    {
        name: 'sfx_blip_001',
```

```
        soundFileOffline:
'media/sounds/sfx_blip_001.mp4',
        soundFileOnline:
'https://collegeofscripting.weebly.com/upload
s/6/4/4/8/64482293/sfx_blip_001.mp4'
    },

    {

        name: 'sfx_warp_001',
        soundFileOffline:
'media/sounds/sfx_warp_001.mp3',
        soundFileOnline:
'https://collegeofscripting.weebly.com/upload
s/6/4/4/8/64482293/sfx_warp_001.mp3'
    }
];
```

```
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//
https://github.com/ChristopherAndrewTopalia
n

// whenLoaded.js

function whenLoaded()
{
    loadSounds(sounds);

    makeMenuLeft(theFunctions);
```

```
    makeMenuRight();

    makeCenterContainer();

    makeInputs(theFunctions);

    makeTitleOfApp();

    resizeElements();
}
```

How to Paste Code from a PDF that has Junk Characters.

When we paste from a pdf into VSCode, it might look like this:

```javascript
function combineJSFiles(directory, scriptFilename)
{
    let outputFilePath = path.join(directory, 'main.js');

    let fileContents = [];
```

We can't leave those junk characters in the code, so we remove them with find/replace.

We Find 1 of the spaces.
We Replace All with the 1 space that we typed. This gets rid of the junk characters in the code.

We highlight 1 space with our mouse arrow:

```
function combineJSFiles(directory,
scriptFilename)
{
    let outputFilePath = path.join
(directory, 'main.js');

    let fileContents = [];
```
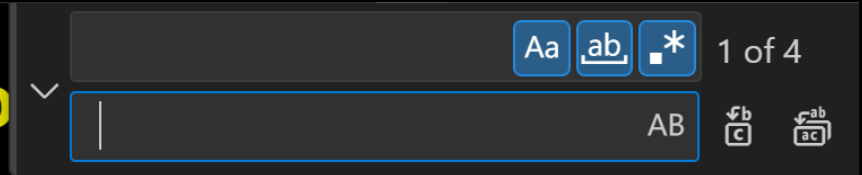
We press **Control + H** to open the Find/Replace feature and **Replace All** with our own **Space**

```
function comb
scriptFilename)
{
    let outputFilePath = path.join
(directory, 'main.js');

    let fileContents = [];
```

Aa ab .* 1 of 4

AB

Here we see that the Find/Replace All
has replaced the junk characters
with our working spaces instead:

```javascript
function combineJSFiles(directory,
scriptFilename)
{
    let outputFilePath = path.join
    (directory, 'main.js');

    let fileContents = [];
```

Now that the code
has no junk characters,
it can run.

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%"

:: loop through all JavaScript files in
subdirectories
for /r %%i in (*.js) do (
    :: append the content of each file to the
output file
    type "%%i" >> "%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++)
```

```javascript
    {
        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)
            {
```

```javascript
                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.

```python
# 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:
```

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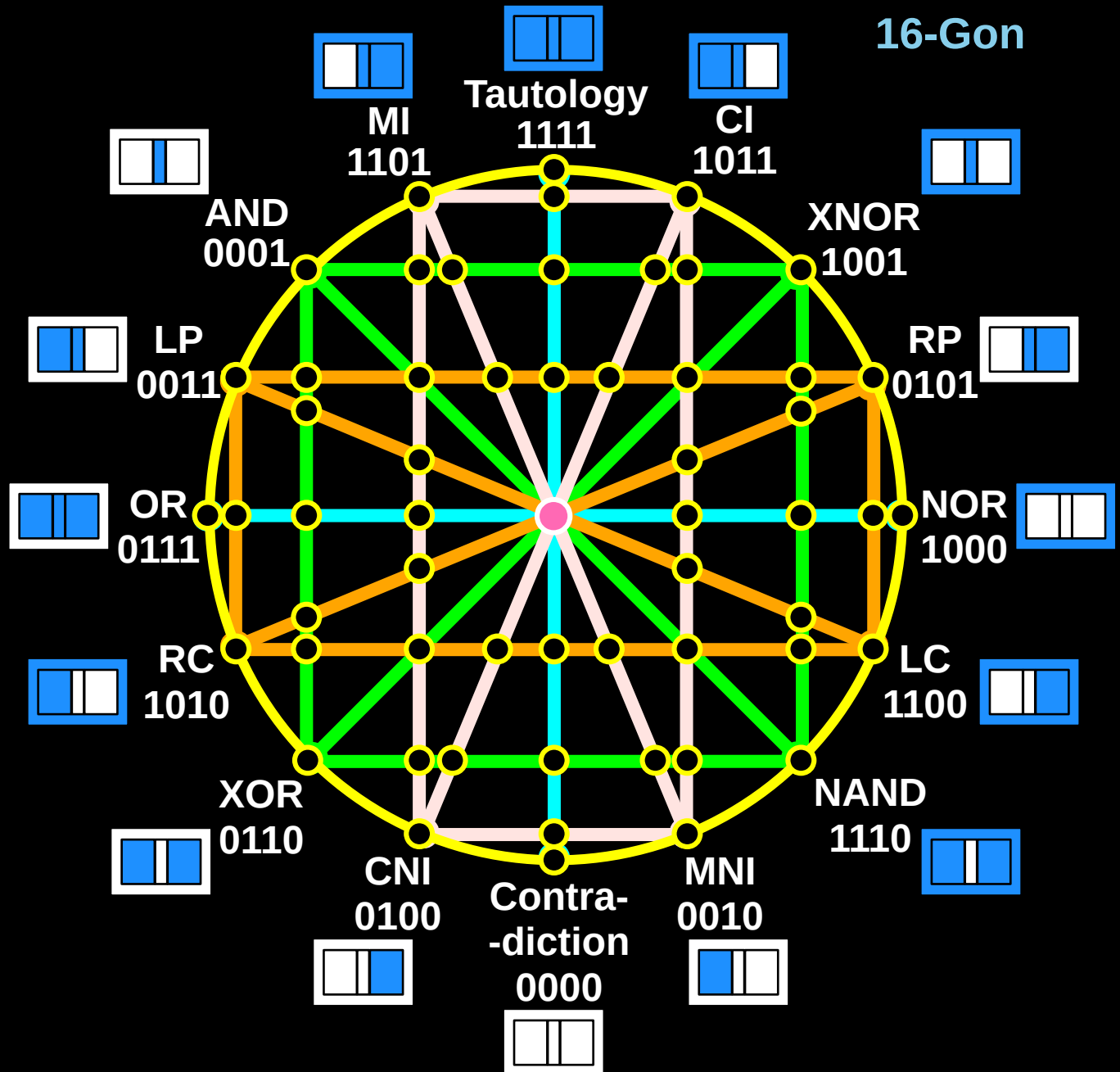
We can do the same thing for .html files, where we change the file type it will be combining to .html and it will combine all .html files into one main.html file.

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

16-Gon

Tautology 1111
MI 1101
CI 1011
AND 0001
XNOR 1001
LP 0011
RP 0101
OR 0111
NOR 1000
RC 1010
LC 1100
XOR 0110
NAND 1110
CNI 0100
Contra-diction 0000
MNI 0010

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Christopher Topalian

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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