

Topalian JavaScript Filter Functions 002

**by
Christopher Andrew Topalian**

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Dedicated to God the Father

Topalian JavaScript Filter Function
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file:///D:/_1Code/0_JS_Apps/Topalian_JavaScript_Filter_Functions/Topali

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AOO Menu

showAll

showAllNames

showAllDates

filterByName

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

```
[{"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 9:30 PM')

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AOO Menu

showAll

showAllNames

showAllDates

filterByName

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

```
["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 9:30 PM')

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showAll

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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

```
["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

showAllDates(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 9:30 PM')

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AOO Menu

showAll

showAllNames

showAllDates

filterByName

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

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

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

filterByName(person, 'Melissa')

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

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

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

filterByYearMonth(person, '1983/03')

filterByMonthDay(person, '3', '5')

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

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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"}]
```

Result

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

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

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 9:30 PM')

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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"}]
```

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

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

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

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"}]
```

Non AOO Menu

showAll
showAllNames
showAllDates
filterByName
filterByDate
filterBeforeDate
filterAfterDate

showAll(people)
filterByName(people, 'Melissa')
filterAfterDate(people, '1981/02/05')
filterByYearMonth(people, '1983/03')

showAllNames(people)
filterByDate(people, '1983/03/05')
filterByYear(people, '1983')
filterByMonthDay(people, '3', '5')

showAllDates(people)
filterBeforeDate(people, '1982/02/05')
filterByMonth(people, '03')
filterByDateTime(people, '1980/03/01')

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filterBeforeDate

filterAfterDate

filterByYear

filterByMonth

filterByYearMonth

filterByMonthDay

filterByDateTime

filterByMonth(people, '03')

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"}]
```

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

Result

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

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

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

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filterBeforeDate

filterAfterDate

filterByYear

filterByMonth

filterByYearMonth

filterByMonthDay

filterByDateTime

filterByYearMonth(people, '1983/03')

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"}]
```

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)

filterByName(people, 'Melissa')

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

filterByYearMonth(people, '1983/03')

showAllNames(people)

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

filterByYear(people, '1983')

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

showAllDates(people)

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

filterByMonth(people, '03')

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

Topalian JavaScript Filter Functions

Topalian JavaScript Filter Functions

file:///D:/_1Code/0_JS_Apps/Topalian_JavaScript_Filter_Functions/Topali

filterBeforeDate

filterAfterDate

filterByYear

filterByMonth

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

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

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)

filterByName(people, 'Melissa')

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

filterByYearMonth(people, '1983/03')

showAllNames(people)

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

filterByYear(people, '1983')

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

showAllDates(people)

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

filterByMonth(people, '03')

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

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filterByName

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

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

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)

filterByName(people, 'Melissa')

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

filterByYearMonth(people, '1983/03')

showAllNames(people)

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

filterByYear(people, '1983')

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

showAllDates(people)

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

filterByMonth(people, '03')

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

Topalian JavaScript Filter Functions

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file:///D:/_1Code/0_JS_Apps/Topalian_JavaScript_Filter_Functions/Topali

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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- showAll
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- filterByName
- filterByDate
- filterBeforeDate
- filterAfterDate

Non AOO Menu

- showAll
- showAllNames
- showAllDates
- filterByName
- filterByDate
- filterBeforeDate
- filterAfterDate

showAll(people)

filterByName(people, 'Tabitha')

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

filterByYearMonth(people, '1983/03')

showAllNames(people)

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

filterByYear(people, '1983')

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

showAllDates(people)

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

filterByMonth(people, '03')

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

Topalian JavaScript Filter Functions

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"}]
```

Result

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

AOO Menu

- showAll
- showAllNames
- showAllDates
- filterByName
- filterByDate
- filterBeforeDate
- filterAfterDate

Non AOO Menu

- showAll
- showAllNames
- showAllDates
- filterByName
- filterByDate
- filterBeforeDate
- filterAfterDate

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

filterByName(people, 'Tabitha') 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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AOO Menu

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showAllNames

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filterByDate

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

Non AOO Menu

showAll

showAllNames

showAllDates

filterByName

filterByDate

filterBeforeDate

filterAfterDate

showAll(people)

filterByName(people, 'Tabitha')

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

filterByYearMonth(people, '1983/03')

showAllNames(people)

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

filterByYear(people, '1983')

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

showAllDates(people)

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

filterByMonth(people, '03')

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

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file:///D:/_1Code/0_JS_Apps/Topalian_JavaScript_Filter_Functions/Topali

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

AOO Menu
showAll
showAllNames
showAllDates
filterByName
filterByDate
filterBeforeDate
filterAfterDate

Non AOO Menu
showAll
showAllNames
showAllDates
filterByName
filterByDate
filterBeforeDate
filterAfterDate

showAll(people)
filterByName(people, 'Tabitha')
filterAfterDate(people, '1981/02/05')
filterByYearMonth(people, '1983/03')

showAllNames(people)
filterByDate(people, '1983/03/05')
filterByYear(people, '1983')
filterByMonthDay(people, '3', '5')

showAllDates(people)
filterBeforeDate(people, '1982/02/05')
filterByMonth(people, '03')
filterByDateTime(people, '1980/03/01

Topalian JavaScript Filter Functions

Topalian JavaScript Filter Functions

file:///D:/_1Code/0_JS_Apps/Topalian_JavaScript_Filter_Functions/Topali

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

AOO Menu

- showAll
- showAllNames
- showAllDates
- filterByName
- filterByDate
- filterBeforeDate
- filterAfterDate

Non AOO Menu

- showAll
- showAllNames
- showAllDates
- filterByName
- filterByDate
- filterBeforeDate
- filterAfterDate

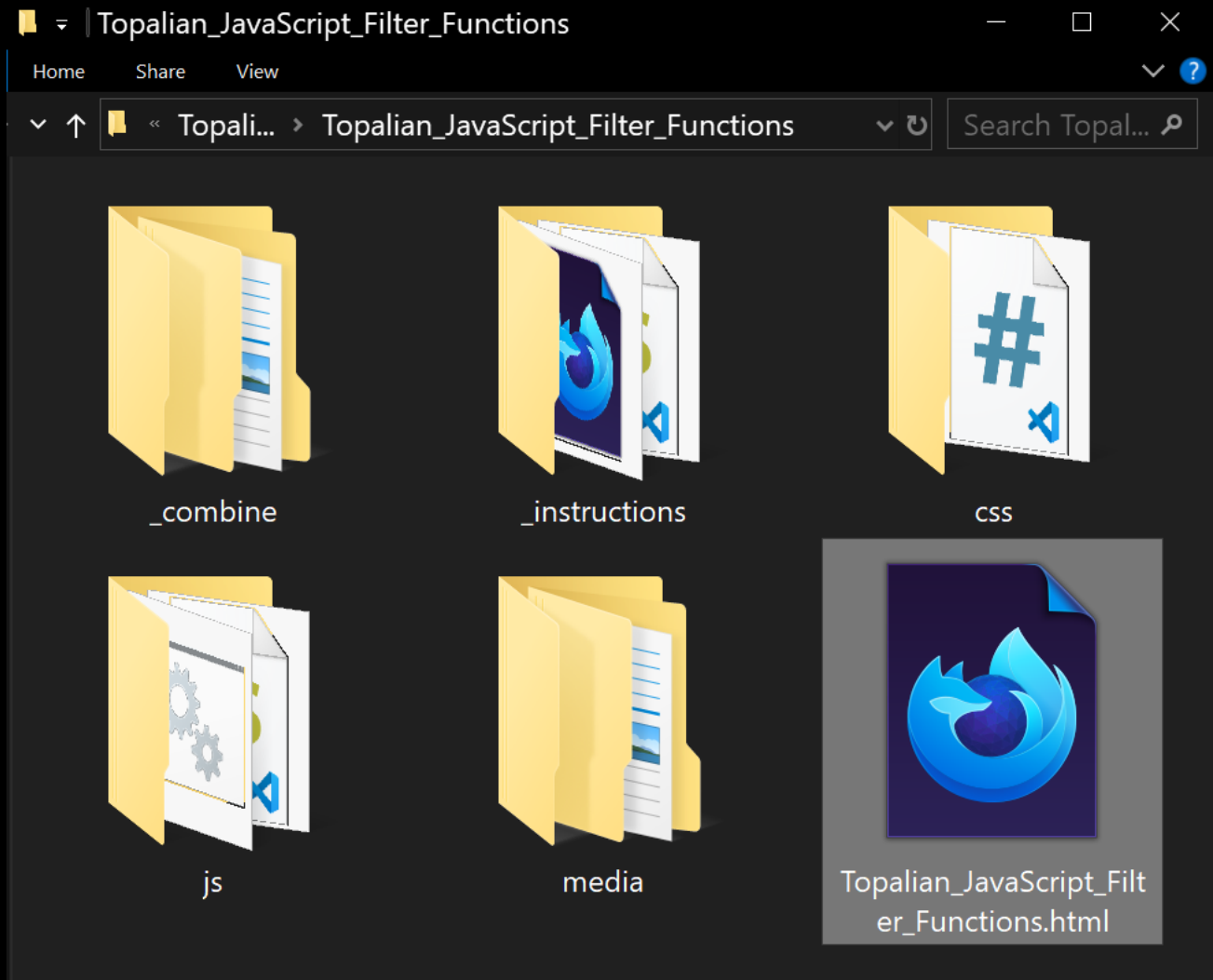
showAll(people) showAllNames(people) showAllDates(people)

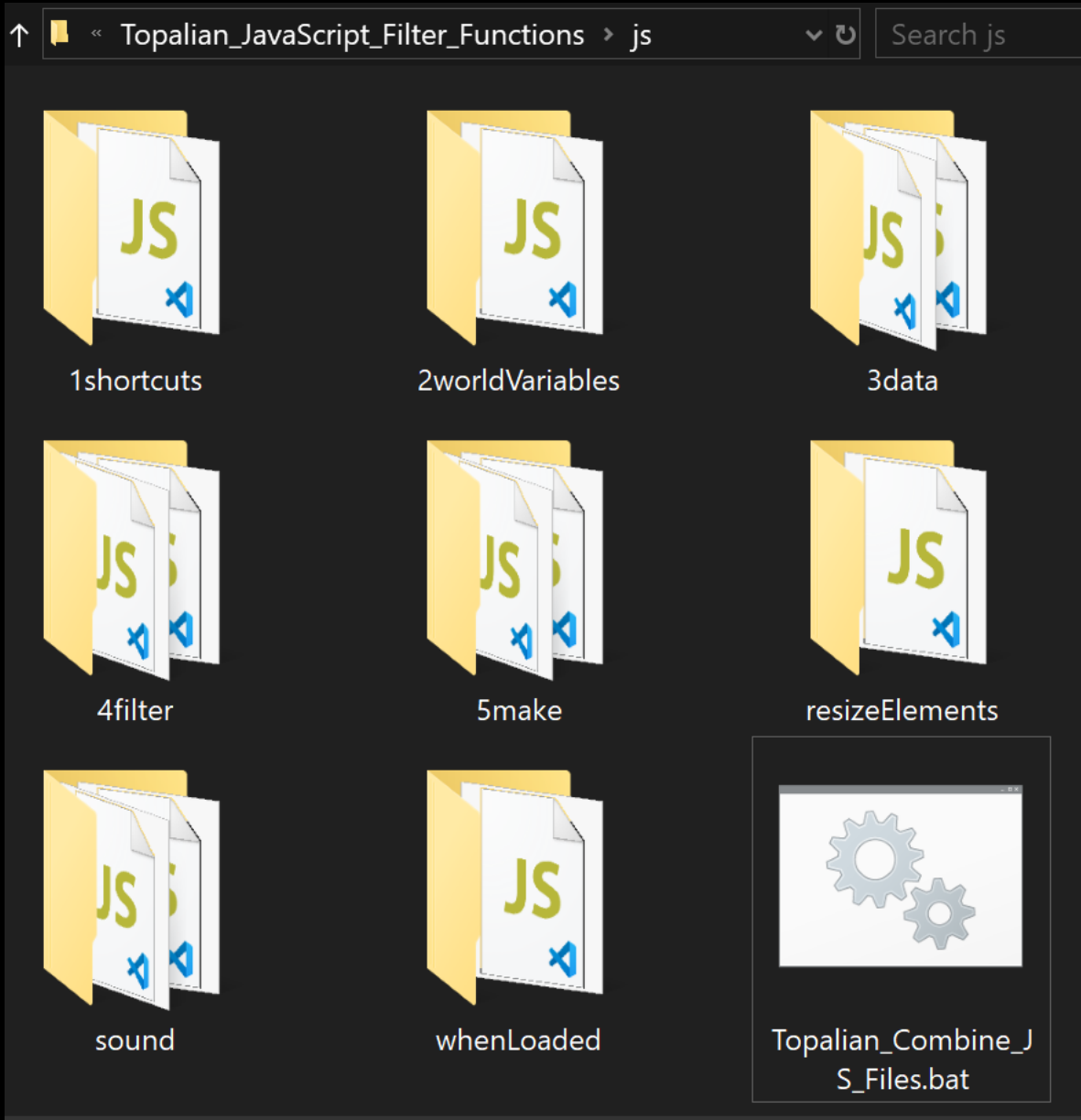
filterByName(people, 'Tabitha') filterByDate(people, '1983/03/05') filterBeforeDate(people, '1982/02/05')

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

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

Topalian JavaScript Filter Functions





```
<!-- 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 002 - (2024-06-25) -->

<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>
```

```
<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>
```

```
<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();'>
```

```
</body>
```

```
</html>
```

```
/* 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;  
    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;
  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);  
}
```

```
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;  
  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  
{  
    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;  
  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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n
// 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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n  
// worldVariables.js
```

```
let online = false;
```

```
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n
// 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'  
  }  
];
```



```
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n
// 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 (whichArray[z].date > whichDate)
        {
```

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

```
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//
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n
// filterBeforeDate.js
```

```
function filterBeforeDate(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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//
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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 = whichArray[z].date.split('/');
```

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

return result;
}
```

```
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n
// filterByMonthDay.js
```

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

    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 = [];

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

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

```
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n
// filterByYear.js
```

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

    for (let z = 0; z < whichArray.length; z++)
    {
        if
        (whichArray[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
    (whichArray[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;  
}
```

```
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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;  
}
```

```
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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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n
// makeCenterContainer.js
```

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

```
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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().bottom + 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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n
// 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);  
}  
}
```

```
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n
// 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);
```

```
//-//
```

```
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';
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(showAllNamesButton);
```



```
//-//
```

```
// 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(filterByNameButton);
```

```
//-//
```

```
// 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)
;

// -//

// 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(filterAfterDateButto  
n);
```



```
//-//
```

```
// 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)
;

// - //

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

```
function makeTitleOfApp()
{
    // titleContainer
    let titleContainer = ce('div');
    titleContainer.style.position = 'absolute';
    titleContainer.style.right = '10px';
    titleContainer.style.bottom =
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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n
// resizeElements.js
```

```
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();  
};
```

```
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// audioPlay.js
```

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

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



```
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// n
// 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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n
// 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/uploads/6/4/4/8/64482293/sfx_warp_001.mp3'  
}  
];
```

```
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n
// whenLoaded.js
```

```
function whenLoaded()
{
    loadSounds(sounds);

    makeMenuLeft(theFunctions);

    makeMenuRight();

    makeCenterContainer();
```

```
makeInputs(theFunctions);  
makeTitleOfApp();  
resizeElements();  
}
```

How to Remove Junk Characters, when Pasting from a Pdf

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

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

```
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 outputPath = path.join  
(directory, 'main.js');
```

```
  let fileContents = [];
```

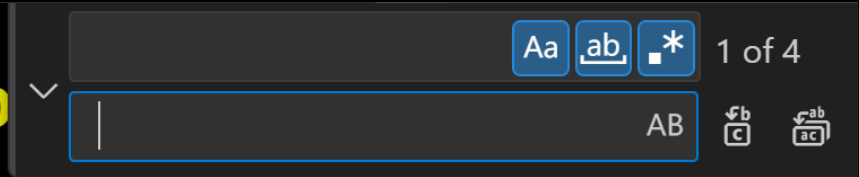

We press Control + H to open the Find/Replace feature and Replace All with our own Space

```
function comb  
scriptFilename)
```

```
{
```

```
let outputPath = path.join  
(directory, 'main.js');
```

```
let fileContents = [];
```



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

```
function combineJSFiles(directory,  
scriptFilename)  
{  
    let outputPath = 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++)
```

```
{  
  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.

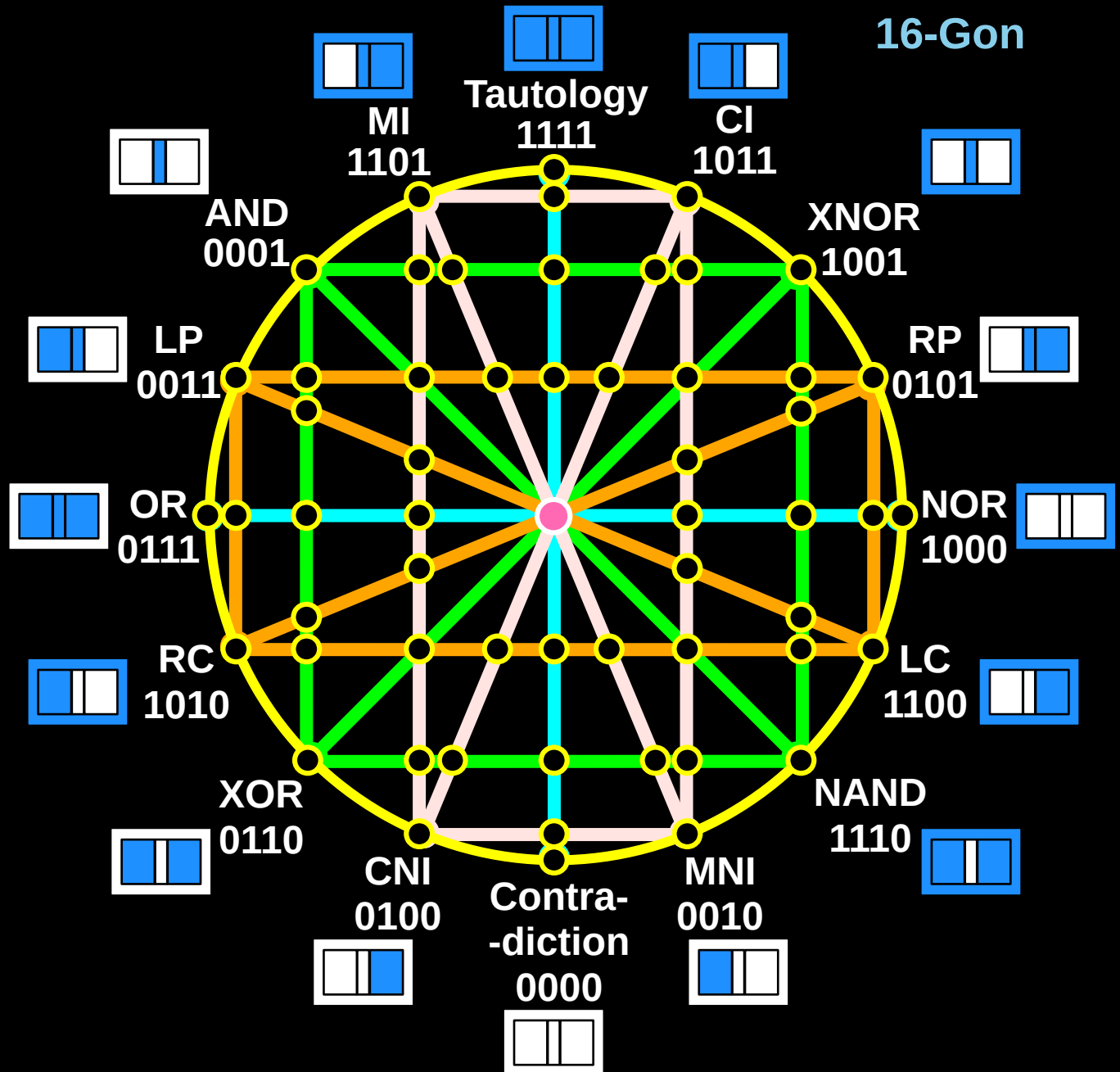
We can do the same thing for .html files, where we change the file type it will be combining to .html and it will combine all .html files into one main.html file.

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



For More Tutorials:

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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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