

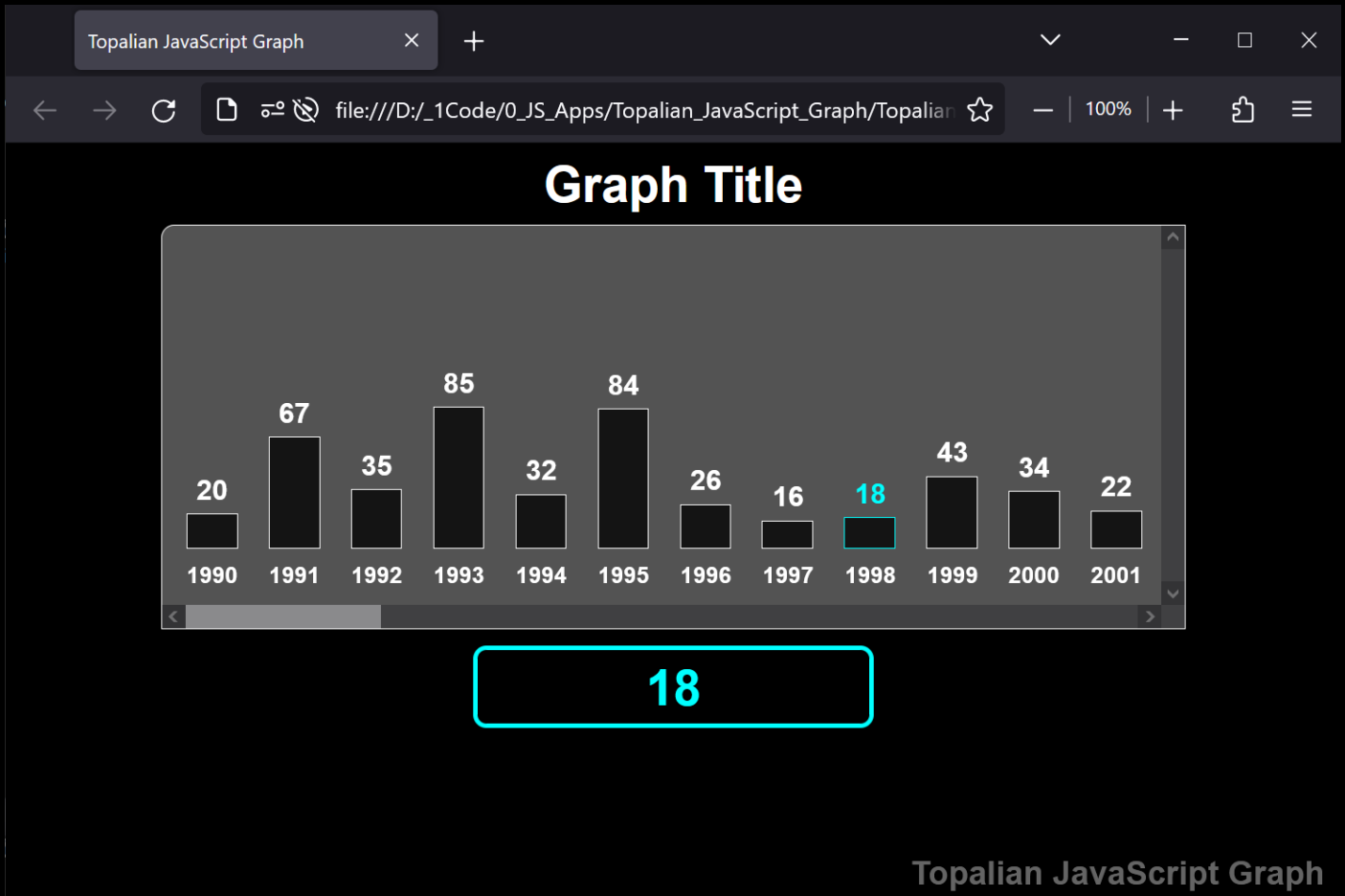
Topalian JavaScript Graph

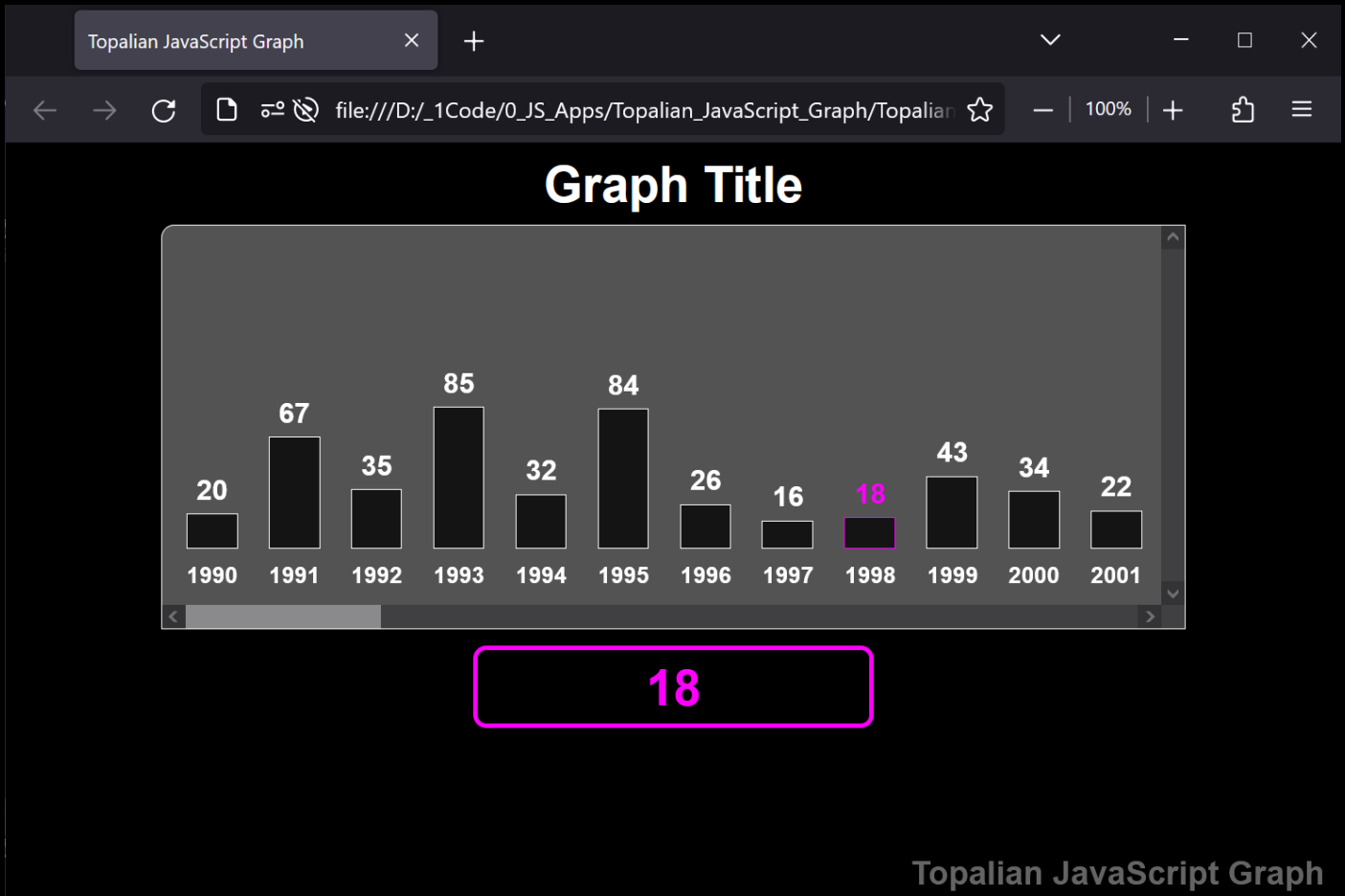
by

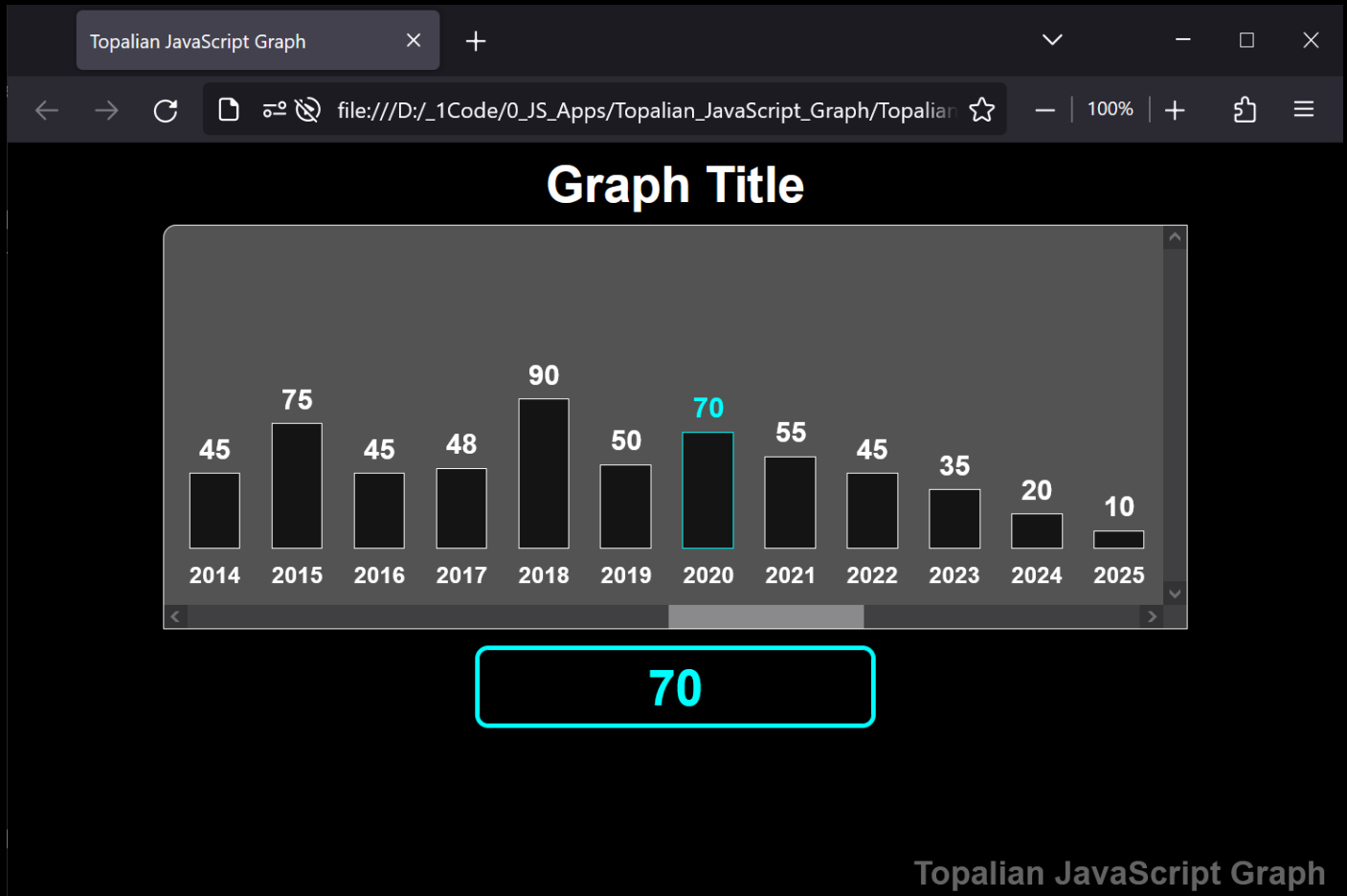
Christopher Andrew Topalian

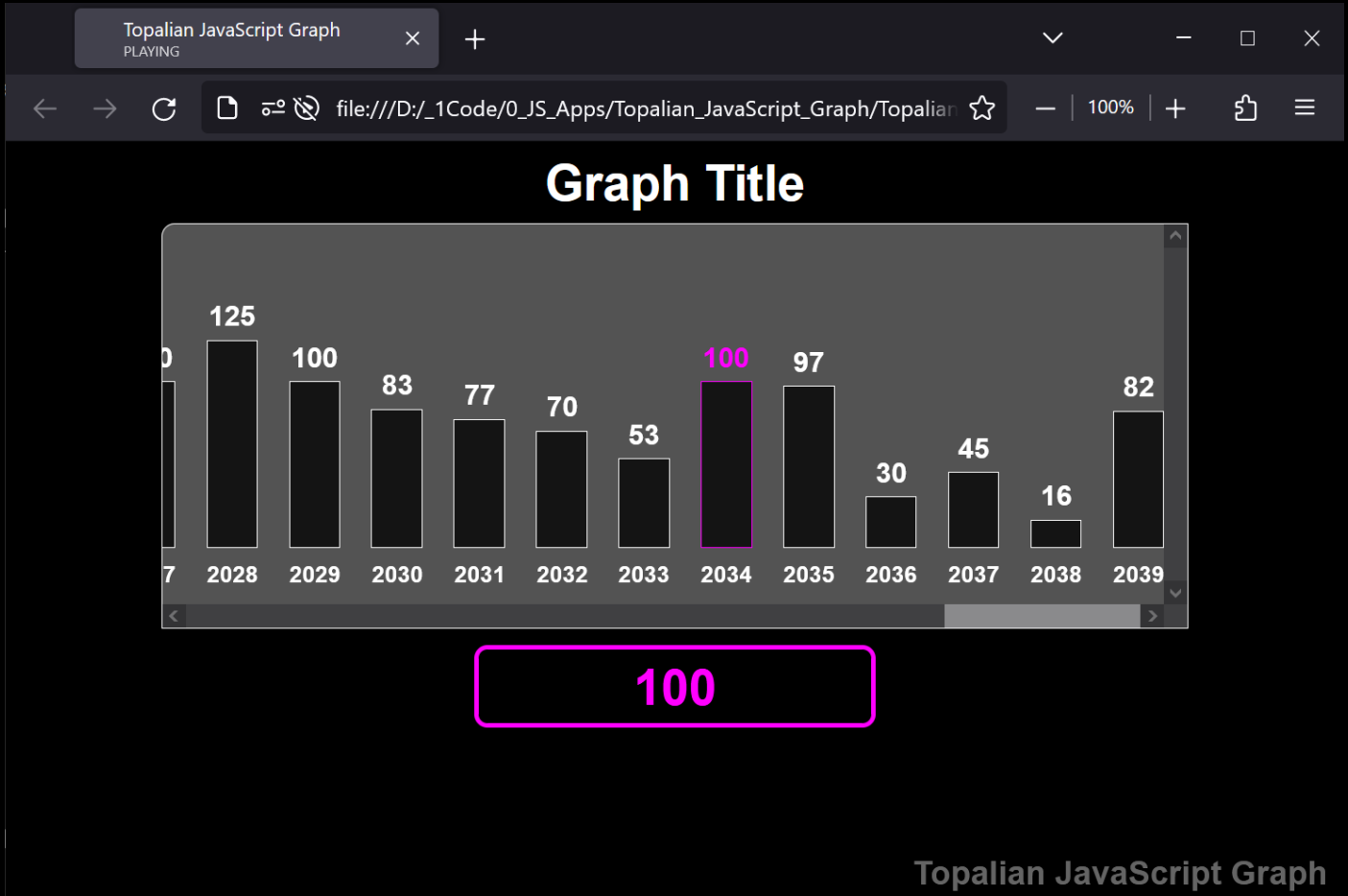
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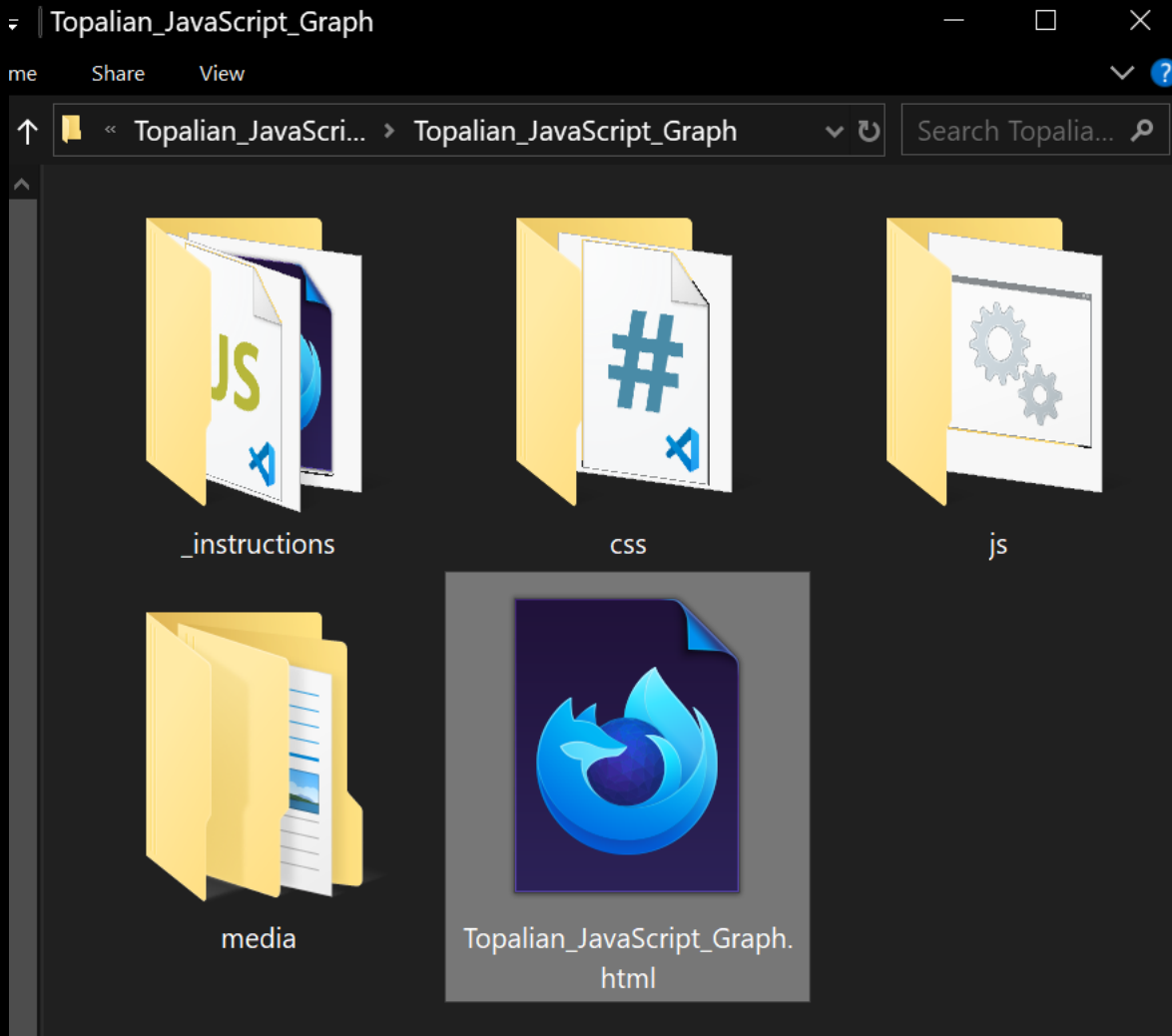
Dedicated to God the Father

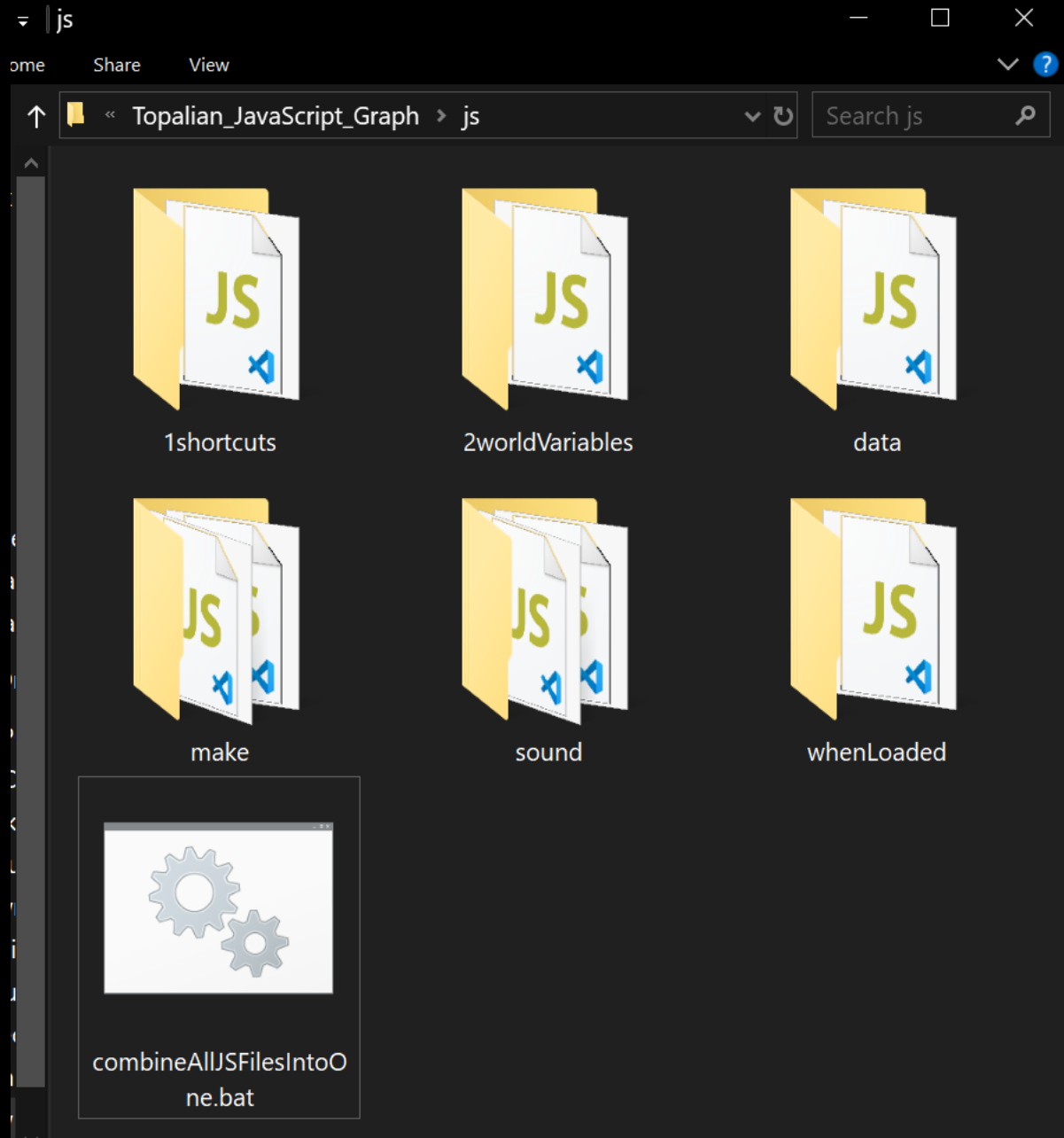












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>**

**<!--
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n](https://github.com/ChristopherAndrewTopalian) -->**

**<!--
[https://github.com/ChristopherTopalian/Topal
ianGameEngineDataNavigator](https://github.com/ChristopherTopalian/TopalianGameEngineDataNavigator) -->**

<!-- Topalian_JavaScript_Graph.html -->

<!-- Version 001 - (2024-04-23) -->

<html>

<head>

<title> Topalian JavaScript Graph </title>

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

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

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

<script src = 'js/data/temperature.js'></script>

```
<script src =  
'js/make/makeGraph.js'></script>
```

```
<script src =  
'js/make/makeGraphTitle.js'></script>
```

```
<script src =  
'js/make/makeInfoDiv.js'></script>
```

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

```
</head>
```

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

```
</body>
```

```
</html>
```

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/* style001.css */

body
{
 background-color: rgb(0, 0, 0);
}

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

```
a:hover
{
  text-decoration: underline;
}
```

```
#graphTitle
{
  font-family: Arial;
}
```

```
#mainDiv
{
```

```
position: relative;
width: 75%;
height: 55%;
margin: auto;
padding-right: 25px;
border: solid 1px rgb(255, 255, 255);
border-radius: 8px;
background-color: rgb(83, 83, 83);
overflow: scroll;
}
```

.dataPoint

```
{
  width: 30px;
  border: solid 1px rgb(255, 255, 255);
  background-color: rgb(20, 20, 20);
  font-family: arial;
  font-size: 17px;
}
```

```
font-weight: bold;  
color: rgb(255, 255, 255);  
text-align: center;  
}
```

```
.temperatureText  
{  
    position: absolute;  
    top: -25px;  
    left: 50%;  
    transform: translateX(-50%);  
}
```

```
.yearLabel  
{  
    position: absolute;  
    bottom: -25px;  
    left: 50%;
```



```
transform: translateX(-50%);  
font-family: arial;  
font-size: 14px;  
color: rgb(255, 255, 255);  
}
```

#infoContainer

```
{  
  position: absolute;  
  left: 0px;  
  right: 0px;  
  width: 30%;  
  height: 50px;  
  margin: auto;  
  margin-top: 10px;  
  border: solid 3px rgb(255, 255, 255);  
  border-radius: 8px;  
  padding-left: 10px;
```

```
padding-right: 10px;  
padding-top: 2px;  
padding-bottom: 2px;  
background-color: rgb(0, 0, 0);  
font-family: Arial;  
font-size: 30px;  
font-weight: bold;  
color: rgb(255, 255, 255);  
text-align: center;  
line-height: 43px;  
overflow: hidden;  
resize: none;  
}
```

```
#titleOfApp
```

```
{  
    font-family: Arial;  
    font-weight: bold;
```

```
color: rgb(100, 100, 100);  
}
```

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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

let online = false;

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// temperature.js

**let temperature =
[
 20,
 67,
 35,**

85,
32,
84,
26,
16,
18,
43,
34,
22,
83,
98,
38,
48,
77,
70,
40,
82,
21,

50,
78,
87,
45,
75,
45,
48,
90,
50,
70,
55,
45,
35,
20,
10,
98,
100,
125,

100,
83,
77,
70,
53,
100,
97,
30,
45,
16,
82
];

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// makeGraph.js

**function makeGraph(whichArray)
{
 let xPos = 15;
 let yPos = 195;**

//-//

```
let mainDiv = ce("div");  
mainDiv.id = 'mainDiv';  
ba(mainDiv);
```

//-//

```
for (let x = 0; x < whichArray.length; x++)  
{  
    let dataPoint = ce("div");  
    dataPoint.id = 'dataPoint' + x;  
    dataPoint.className = "dataPoint";  
    dataPoint.style.position = 'absolute';  
    dataPoint.style.left = xPos + "px";  
    dataPoint.style.top = yPos -  
whichArray[x] + "px";
```

```
dataPoint.style.height = whichArray[x] +  
"px";  
dataPoint.onmouseover = function()  
{  
    audioPlay('sfx_warp_001', 1.0);  
  
    ge('temperature' + x).style.color =  
'rgb(0, 255, 255)';  
  
    ge('dataPoint' + x).style.borderColor =  
'rgb(0, 255, 255)';  
  
    ge('infoContainer').value =  
whichArray[x];  
  
    ge('infoContainer').style.borderColor =  
'rgb(0, 255, 255)';  
}
```

```
    ge('infoContainer').style.color = 'rgb(0,
255, 255)';
};

dataPoint.onmouseleave = function()
{
    ge('temperature' + x).style.color =
'rgb(255, 255, 255)';

    ge('dataPoint' + x).style.borderColor =
'rgb(255, 255, 255)';

    ge('infoContainer').style.borderColor =
'rgb(255, 255, 255)';

    ge('infoContainer').style.color =
'rgb(255, 255, 255)';
};
```

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

    ge('temperature' + x).style.color =
'rgb(255, 0, 255)';

    ge('dataPoint' + x).style.borderColor =
'rgb(255, 0, 255)';

    ge('infoContainer').style.borderColor =
'rgb(255, 0, 255)';

    ge('infoContainer').style.color =
'rgb(255, 0, 255)';
};
mainDiv.append(dataPoint);
```

```
//-//
```

```
let temperatureText = ce("div");  
temperatureText.id = 'temperature' + x;  
temperatureText.className =  
"temperatureText";  
temperatureText.textContent =  
whichArray[x];  
dataPoint.append(temperatureText);
```

```
//-//
```

```
let yearLabel =  
document.createElement("div");  
yearLabel.className = "yearLabel";  
yearLabel.textContent = 1990 + x;  
dataPoint.append(yearLabel);
```



```
//-//
```

```
    xPos += 50;  
}
```

```
//-//
```

```
let infoContainer = ce('textarea');  
infoContainer.id = 'infoContainer';  
mainDiv.insertAdjacentElement("afterend",  
infoContainer);  
}
```

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// makeGraphTitle.js

```
function makeGraphTitle()  
{  
    let graphTitle = ce('div');  
    graphTitle.id = 'graphTitle';  
    graphTitle.innerHTML = 'Graph Title';
```

```
graphTitle.style.marginBottom = '7px';  
graphTitle.style.fontSize = '30px';  
graphTitle.style.fontWeight = 'bold';  
graphTitle.style.color = 'rgb(255, 255, 255)';  
graphTitle.style.textAlign = 'center';  
ge('mainDiv').before(graphTitle);  
}
```

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// makeInfoDiv.js

```
function makeInfoDiv()  
{  
    let infoContainer = ce('textarea');  
    infoContainer.id = 'infoContainer';  
    infoContainer.style.position = 'relative';  
}
```

```
infoContainer.style.margin = 'auto';  
ge('mainDiv').after(infoContainer);  
}
```

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// makeTitleOfApp.js

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

```
titleContainer.style.right = '10px';  
titleContainer.style.bottom = '5px';  
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_graph' target = '_blank'  
Topalian JavaScript Graph </a>`;  
titleContainer.append(titleOfApp);  
}
```

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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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// 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/uploads/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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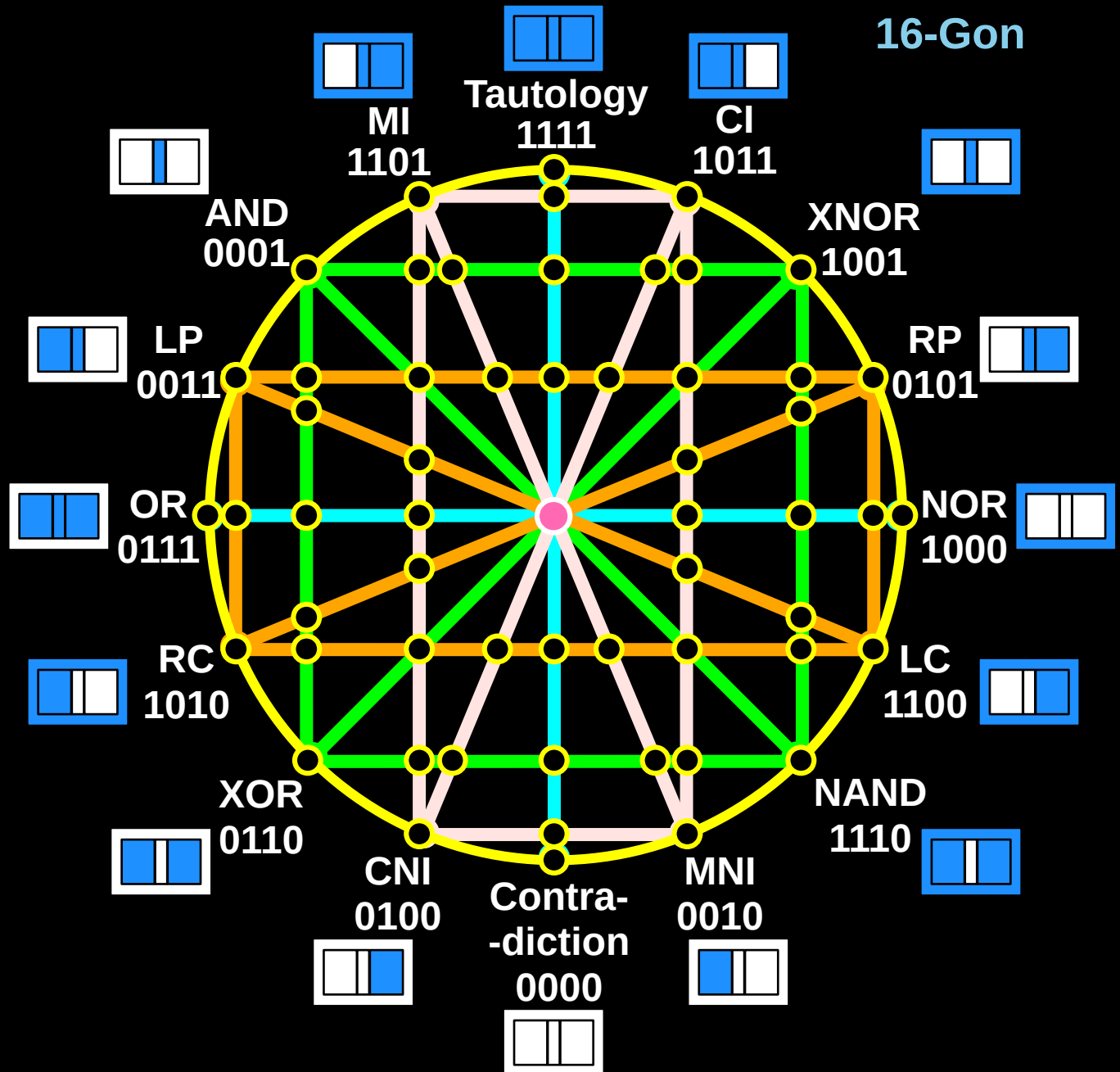
**//
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n](https://github.com/ChristopherAndrewTopalian)**

// whenLoaded.js

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

```
makeGraphTitle();  
makeTitleOfApp();  
}
```

True Artificial Intelligence System



For More Tutorials:

[GitHub.com/ChristopherTopalian](https://github.com/ChristopherTopalian)

[GitHub.com/ChristopherAndrewTopalian](https://github.com/ChristopherAndrewTopalian)

[Sites.google.com/view/CollegeOfScripting](https://sites.google.com/view/CollegeOfScripting)

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**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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