Topalian Game Engine Data Navigator

by

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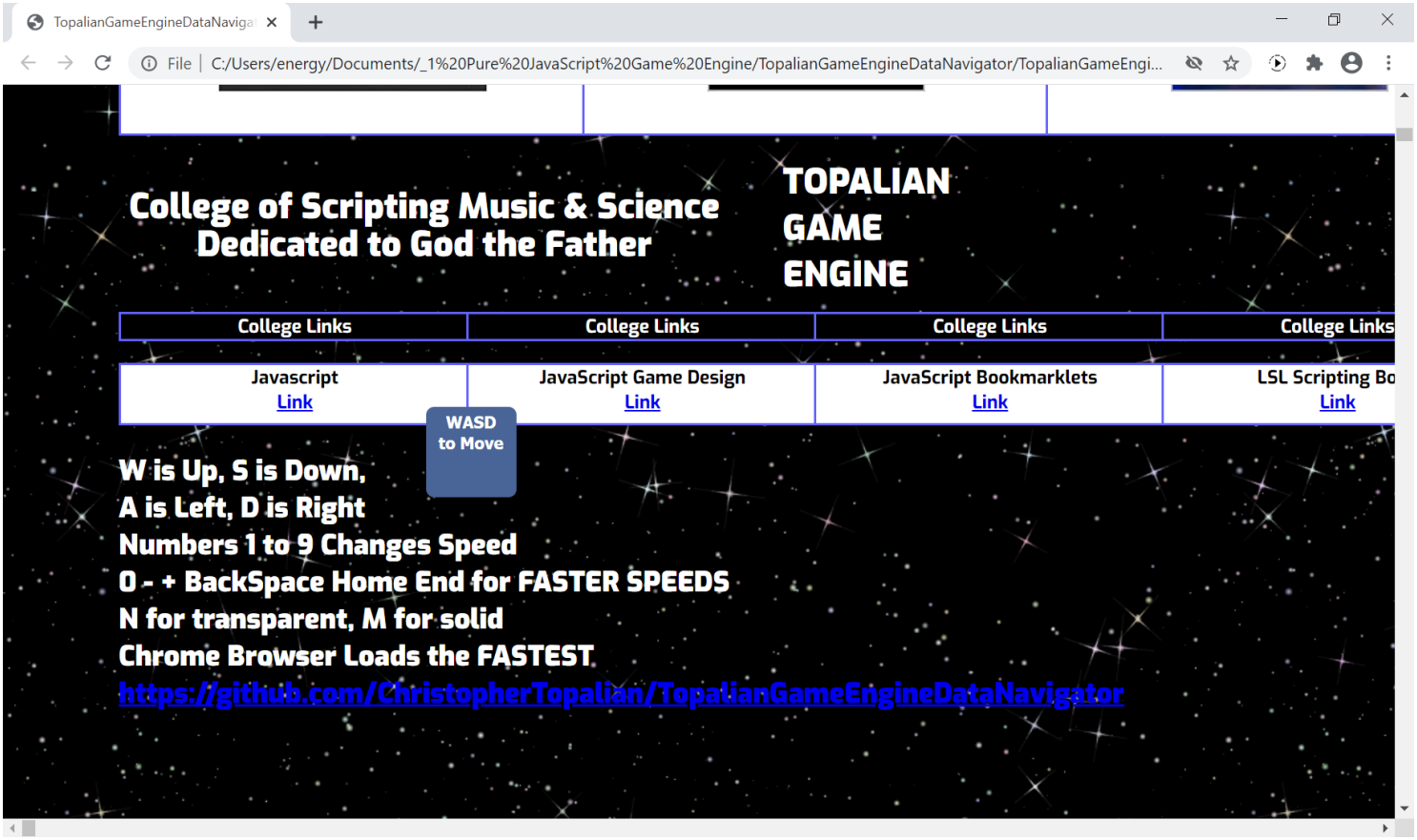
Introduction



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The **Topalian Game Engine Data Navigator** is a **JS**, **HTML**, **CSS** Application designed to organize and display hundreds of thousands of pieces of information, including **video**, **audio**, **images**, **text**, **links**, and **web pages**.

The Topalian Game Engine Data Navigator is a **100% PURE JAVASCRIPT** Application. There are NO other libraries used.

This JAVASCRIPT APPLICATION is useful for:

- ➔ Professional Investigators (police, fbi, M.I. etc)
- ➔ Teachers/Students (All levels)
- ➔ Musicians, Artists, Scientists in all fields

Features

Moving Character that Explores the Data

Abilities:

- ✔ 🔆 Player Moves in All Directions Smoothly
- ✔ 🎥 Camera Follows Player Around the World
- ✔ 🏃 Speeds - Very Slow to Extremely Fast
- ✔ ○ ● Transparent or Solid Player Body
- ✔ 📌 Mouse Position of where Player clicks on the screen

Play Video and Audio

From:

- ✔ Internet URL address as a LINK you visit
- ✔ Internet URL address as an Embeded video on the page
- ✔ File on your computer
- ✔ File on a Server

Video and Audio Playback Features: 🎥 🎵 📺 📷

- ✔ 🏃 Speed Buttons of 100%, 75%, 50%, 25%, 10%
- ✔ > || Play/Pause, **Spacebar**, or **K**
- ✔ ⏱ Set the Start and End Time
- ✔ ⏱ Set Only the Start Time
- ✔ ⏱ Set Only the End Time
- ✔ ↻ Continuous Play or ⏰ Isolation Mode

- ✔ ↕ Resize Player to Any Size you Want
- ✔ → Forward One Frame, **period** when video is paused
- ✔ ← Backward One Frame, **comma** when video is paused
- ✔ 🕓 Slow Video Down by 25% with **Shift + Comma**
- ✔ 🕓 Speed the Video Up by 25% with **Shift + Period**
- ✔ 🔇 Mute the Video with **M**
- ✔ 🔉 Decrease Video Volume with **Down Arrow**
- ✔ 🔊 Increase Video Volume with **Up Arrow**
- ✔ ↞ Backwards 5 Seconds with **Left Arrow**
- ✔ ↠ Forwards 5 Seconds with **Right Arrow**
- ✔ ↞ Backwards 10 Seconds with **J**
- ✔ ↠ Forwards 10 Seconds with **L**
- ✔ ☞ Position the Video and/or Audio File Any Where on the Page
- ✔ Go to the Source of the Youtube Video by clicking the Youtube Logo
- ✔ Full Screen Video for Youtube, after you click the Youtube Logo
- ✔ Full Screen for Videos in Folder or Server, Click bottom right square
- ✔ Close Captions by clicking on the **CC** button

Organizing/Sorting/Filtering

Sort the Data: ASCENDING AND DESCENDING (Low to High, High to Low)

- ✔ Alphabetically
- ✔ Alphanumerically
- ✔ Date
- ✔ Month
- ✔ Day
- ✔ Year
- ✔ Month and Day
- ✔ Month and Year
- ✔ Multiple Years
- ✔ Multiple Months
- ✔ Multiple Years and Months
- ✔ Time of Day

Interface

Abilities

- ✔ Zoom IN/OUT to any setting that your web browser allows
- ✔ Print Any Div on the Screen
- ✔ Video, Audio, Images, Text, Links, Style Sheets may be used, since we are using Javascript, HTML and CSS.
- ✔ Data is Laid out in Rows - You Decide where to place the Row
- ✔ Load Data On Page Load, Crossing Specific Points and Push Button
- ✔ Deleting Divs
- ✔ Use the Web Browser Console to Debug Any Additions Made
- ✔ Window Abilities, Minimize, Maximize, Resize
- ✔ Advanced Video and Audio Controls - See Video/Audio Features

Websites onto the Page

Entire Websites can be loaded onto your web page, but those website MUST ALLOW IFRAME!

If the website allows iframe, then you can use an iframe to place that website onto your web page.

Keep in mind that some websites will effect loading time if you load them at the start of the application. If a website takes much time to load, then it is a good idea to allow the user the choice of loading it or not, by using a push button option to load the content.

The functionality of the website will be the same on your webpage.

News Articles

Displaying a Row of News Articles is easy.

```
let videoEvidence =
[
   { headline:"Bill Gates Met With JeffreyEps
   tein Many Times, Despite His Past",
   date:"10/12/2019 12:00 AM", url :"https://
   www.nytimes.com/2019/10/12/business/
   jeffrey-epstein-bill-gates.html", tag
   :"news", description:"epstein"},
   {
   headline:"Twitter cracks down on QAnon,
   will ban thousands of accounts", date
   :"07/21/2020 12:00 AM", url:"https://
   fortune.com/2020/07/21/twitter-qanon-
   accounts-banned-crackdown/", tag:"news",
   description:"qanon"}
];
```

As you can see above, we have an object, made of keys and values.

The keys are **headline**, **date**, **url**, **tag** and **description**.

The values of those keys are written after the colon symbol **:**

Do NOT use double quotes in a headline or other key value. The double quote is used to end the string value, so if you use the double quote in the value itself, it would end the string, before we wanted it to be ended.
Entries are sorted by the DATE

```
date:"10/12/2019 12:00 AM"
```

Timeline Generation

All Items are Sorted by Date other criteria, such as name or number.

This makes INVESTIGATIONS much easier!

Now, every clue can be placed on a timeline automatically!

You can include the text, date, time, location, images, videos, map links, news links, etc.

Making Custom Row Functions is very easy too.

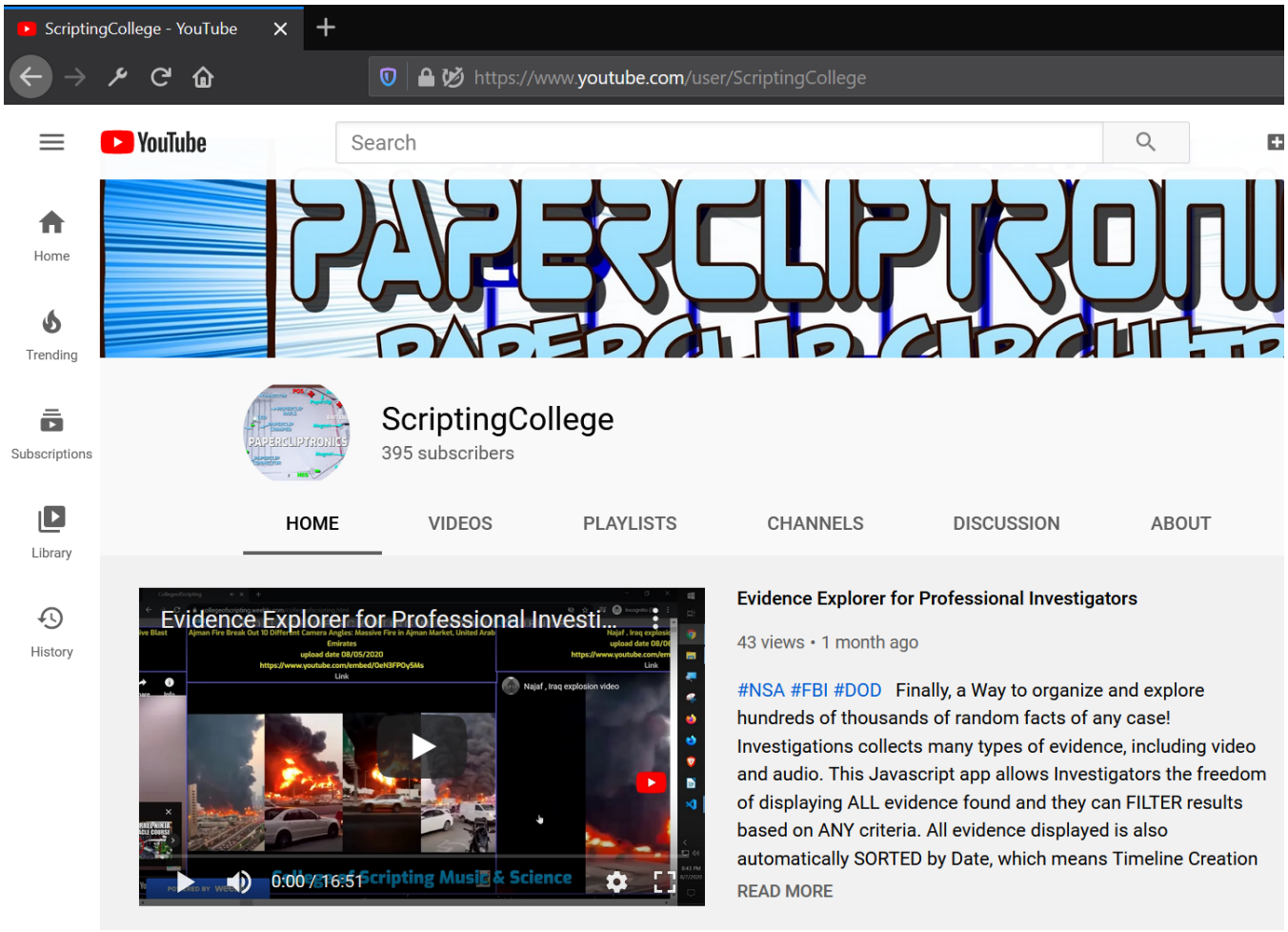
All Investigations are unique and that is one of the many reasons why Javascript is chosen for this task.

Javascript allows investigators the flexibility in designing their own functions to organize and display the data in any way that they decide is useful for their purposes.

Video Instruction on Using the App

Watch detailed video instruction on how to turn your spreadsheet data into Javascript format and learn the many features available to you.

https://www.youtube.com/ScriptingCollege



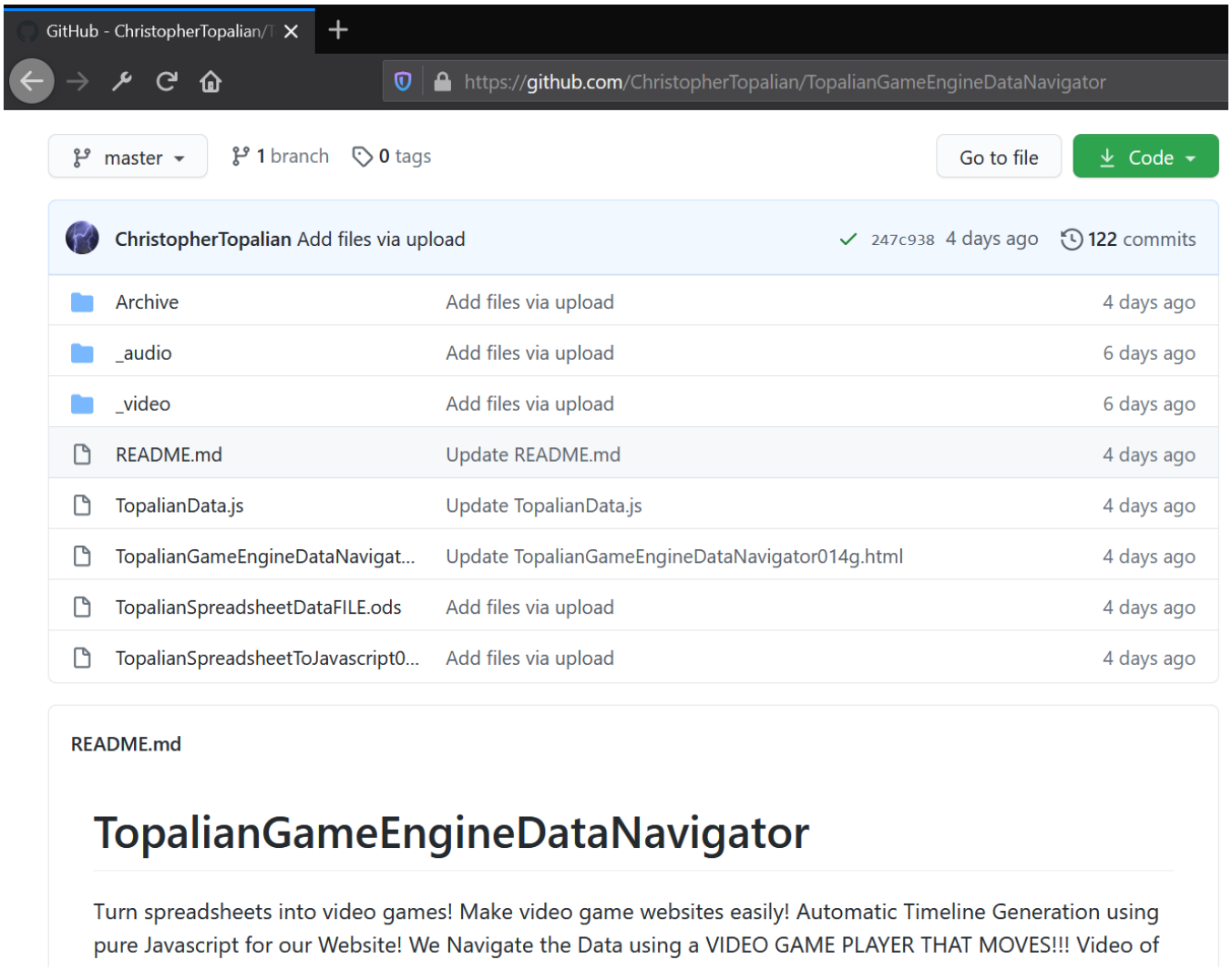
Data Navigator is also known as:

- Evidence Explorer
- Data Explorer
- Evidence Navigator

GITHUB: Topalian Game Engine Data Navigator

Download the Newest Version of the Code here:

https://github.com/ChristopherTopalian/TopalianGameEngineDataNavigator



There is an _audio and _video folder included, for if you decide to add your own local files.

CODE Topalian Game Engine Data Navigator 017.html

```
<!-- Dedicated to God the Father -->
<!-- All Rights Reserved Christopher Topalian Copyright 2020 -->

<!-- Topalian Game Engine Data Navigator --><!--Camera Follows Player -->

<!-- W is Up, S is Down, A is Left, D is Right.
     Click mouse to get X and Y coordinates of any place on the screen
     press numbers 1 to 9 to adjust Speed
     press 0 - + BackSpace Home End for Super Speeds
     press N for the player to be see-through, press M for solid
     press Z for Player Menu, to travel to locations quickly
-->

<!-- works in chrome, firefox, brave, and others -->
<!-- loads the FASTEST in the Chrome Browser(MUCH FASTER)! -->

<!-- See the code in Action
     https://collegeofscripting.weebly.com/  -->

<!-- See the DataNavigator Code here

https://github.com/ChristopherTopalian/TopalianGameEngineDataNavigator
-->

<html><head>
<style>
 #thePlayer{
    position: absolute;
    width: 70px;
    height: 70px;
    background: rgb(73, 100, 150);
```

```
    z-index:1001;
    word-wrap: break-word;
    font-family: Tahoma;
    line-height: 18px;
    font-size: 14px;
    font-weight:bold;
    padding: 4px;
    text-align: center;
    border-radius: 7px;
}

#theBackground{
    position: absolute;
    width: 200000px;
    height: 200000px;
    background: black;
    left: 0px;
    top: 0px;
    opacity: 0.3;
    z-index:-100;
}

#stars{
    position: absolute;
    width: 200000px;
    height: 200000px;
    background: black;
    left: 0px;
    top: 0px;
    opacity: 1.0;
    z-index:-99;
    background-image:
url("https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/stars-
nice_orig.png");
    background-repeat: repeat;
}
```

```
body
{
   color:white; /*font color*/
}

div
{
   padding-top: 2px;
   padding-bottom: 2px;
}

.theImage
{
   height:75%;
   object-fit: contain;
   vertical-align: middle;
   z-index: 10;
}

.theScienceImages
{
   max-width:100%;
   height: auto;
   object-fit: contain;
   margin-left: auto;
   margin-right: auto;
   display: block;
   z-index: 10;
}

.ourButton
{
   /*width: 55px;*/
   background-color: rgb(0, 77, 129);
   border: solid 1px rgb(100, 100, 255);
```

```
    color: white;
    font-weight: normal;
    padding-left: 10px;
    padding-right: 10px;
    padding-top: 2px;
    padding-bottom: 0px;
    text-align: center;
    text-decoration-style: double;
    font-size: 15px;
    border-radius: 7px;
    opacity:1.0;
    margin:2px;
}
.ourButton:hover
{
    background-color: rgb(6, 31, 47);
}

.evidenceWithImage
{
    background-color: black;
    word-wrap: break-word;
}

.socialMediaEvidence
{
    background-color: black;
    word-wrap: break-word;
}

.defaultDiv
{
    color:black;
    z-index:15;
    font-family:exo;
    font-weight:bold;
```

```
    font-size:19px;
    background:rgb(210, 210, 210);
    text-align:center;
}

textarea
{
    resize: none;
    height: 100px;
    overflow-y: scroll;
}

a:link
{
    color:rgb(111, 162, 255);
}

a:visited
{
    color:rgb(133, 134, 209);
}

</style>

<!-- VERY IMPORTANT -->
<!-- Make sure you have this js file in your folder. It is the data. -->
<script src="TopalianData.js"></script>

</head>

    <body onload="whenLoaded();">
        <div id="thePlayer" class="box">WASD<br> to Move</div>

        <div id="theBackground"></div>

        <div id="stars"></div>
```

```
<script>

    function notesRow(theX, theY, sizeX, sizeY, whichArray, criteria1)
    {
        theX -= sizeX;
                    //used with theNotes array
        for(let i = 0; i < whichArray.length; i++)
            {
            theX = theX + sizeX;  //columns across

            if(whichArray[i].tag == criteria1)
            {
                //filter for a MONTH, meaning, SHOW ONLY 1 month
                //if(whichArray[i].date.substring(0,2) == 3)

                //filter for Multiple MONTHS
                //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

                //filter for a DATE
                //if(whichArray[i].date.substring(0,10) == "02/29/2018")

                //filter for a Multiple DATES
                //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

                //filter for a DAY, of any month, of any year
                //if(whichArray[i].date.substring(3,5) == 2)

                //filter for a YEAR
                //if(whichArray[i].date.substring(6,10) == 2019)

                //filter for MULTIPLE YEARS
                //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)
```

```
            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               let notesCategoryTitle = document.createElement("div");
               notesCategoryTitle.style.position="absolute";
               notesCategoryTitle.style.left= theX +'px';
               notesCategoryTitle.style.top= theY -25 + 'px';

               notesCategoryTitle.style.color="white";
               notesCategoryTitle.style.zIndex="10";
               notesCategoryTitle.style.fontFamily="exo";
               notesCategoryTitle.style.fontWeight="bold";
               notesCategoryTitle.style.fontSize="medium";
               notesCategoryTitle.style.background="black";

               notesCategoryTitle.style.textAlign="center";
               notesCategoryTitle.style.width= sizeX +'px';
               notesCategoryTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";
               notesCategoryTitle.innerHTML="Notes Row";

               let notesDiv = document.createElement("div");
               notesDiv.style.position="absolute";
               notesDiv.style.left= theX + 'px';
               notesDiv.style.top= theY +'px';
               notesDiv.style.color="black";
               notesDiv.style.zIndex="1";
               notesDiv.style.border = "solid 2px rgba(0,0,100,1.0)";
               notesDiv.style.fontFamily="exo";
               notesDiv.style.fontWeight="normal";
```

```
                notesDiv.style.fontSize="medium";
                notesDiv.style.width= sizeX +'px';
                notesDiv.style.height= sizeY +'px';
                notesDiv.style.background="white";
                notesDiv.style.textAlign="center";

                //notesRow.id = whichArray[i].id;
                notesDiv.id = Math.floor(350000 + Math.random() *
9750000);

                notesDiv.innerHTML += '<button
onclick="printOnlyDiv(\"+notesDiv.id+'\');"
class="ourButton">Print</button><br>';

                notesDiv.innerHTML+= whichArray[i].date + "<br>";
                notesDiv.innerHTML+= whichArray[i].number + "<br>";
                notesDiv.innerHTML += whichArray[i].note + "<br>";

                document.body.append(notesDiv);
                document.body.append(notesCategoryTitle);
            }
        }
    }
}

    function notesWithTextAreaRow(theX, theY, sizeX, sizeY, whichArray,
criteria1)
    {
        theX -= sizeX;
            //used with theNotes array
        for(let i = 0; i < whichArray.length; i++)
            {
            theX = theX + sizeX;  //columns across

            if(whichArray[i].tag == criteria1)
            {
```

```
            //filter for a MONTH, meaning, SHOW ONLY 1 month
            //if(whichArray[i].date.substring(0,2) == 3)

            //filter for Multiple MONTHS
            //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

            //filter for a DATE
            //if(whichArray[i].date.substring(0,10) == "02/29/2018")

            //filter for a Multiple DATES
            //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

            //filter for a DAY, of any month, of any year
            //if(whichArray[i].date.substring(3,5) == 2)

            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               let notesCategoryTitle = document.createElement("div");
               notesCategoryTitle.style.position="absolute";
               notesCategoryTitle.style.left= theX +'px';
               notesCategoryTitle.style.top= theY -25 + 'px';
```

```
                notesCategoryTitle.style.color="white";
                notesCategoryTitle.style.zIndex="10";
                notesCategoryTitle.style.fontFamily="exo";
                notesCategoryTitle.style.fontWeight="bold";
                notesCategoryTitle.style.fontSize="medium";
                notesCategoryTitle.style.background="black";

                notesCategoryTitle.style.textAlign="center";
                notesCategoryTitle.style.width= sizeX +'px';
                notesCategoryTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";
                notesCategoryTitle.innerHTML="Notes Row with Text Area
Scrolling";

                let notesDiv = document.createElement("div");
                notesDiv.style.position="absolute";
                notesDiv.style.left= theX + 'px';
                notesDiv.style.top= theY +'px';
                notesDiv.style.color="black";
                notesDiv.style.zIndex="1";
                notesDiv.style.border = "solid 2px rgba(0,0,100,1.0)";
                notesDiv.style.fontFamily="exo";
                notesDiv.style.fontWeight="normal";
                notesDiv.style.fontSize="medium";
                notesDiv.style.width= sizeX +'px';
                notesDiv.style.height= sizeY +'px';
                notesDiv.style.background="white";
                notesDiv.style.textAlign="center";

                //notesRow.id = whichArray[i].id;
                notesDiv.id = Math.floor(350000 + Math.random() *
9750000);

                let theTextArea = document.createElement("textarea");
                theTextArea.style.position="absolute";
```

```
                theTextArea.style.left= theX + 17 +'px';
                theTextArea.style.top= theY + 30 +'px';
                theTextArea.style.color="black";
                theTextArea.style.zIndex="1";
                theTextArea.style.border = "solid 2px rgba(0,0,100,1.0)";
                theTextArea.style.fontFamily="exo";
                theTextArea.style.fontWeight="normal";
                theTextArea.style.fontSize="medium";
                theTextArea.style.width= sizeX -30 +'px';
                theTextArea.style.height= sizeY -50 +'px';
                theTextArea.style.background="white";
                theTextArea.style.textAlign="center";
                theTextArea.setAttribute("readonly", "true");

                theTextArea.value += whichArray[i].date + "\n";
                theTextArea.value += whichArray[i].number + "\n";
                theTextArea.value += whichArray[i].note + "\n";

                theTextArea.id = Math.floor(350000 + Math.random() *
9750000);

                let printButton = document.createElement("div");
                printButton.style.position="absolute";
                printButton.style.left= theX + 4 +'px';
                printButton.style.top= theY + 7 + 'px';

                printButton.style.color="white";
                printButton.style.zIndex="10";

                printButton.innerHTML += '<button
onclick="printTextArea(\"+theTextArea.id+'\');"
class="ourButton">Print</button><br>';

                document.body.append(notesDiv);
                document.body.append(printButton);
                document.body.append(theTextArea);
```

```
                document.body.append(notesCategoryTitle);
            }
        }
    }
}

/*  Adds videos to the page
    the videos must allow embed
    on youtube, you copy the url in the Address Bar
    for example https://www.youtube.com/watch?v=Q4tPG-cwiWE
    now you just replace watch?v= with embed/
    for example  https://www.youtube.com/embed/Q4tPG-cwiWE
*/
function makeVideos(theX, theY, sizeX, sizeY, whichArray, criteria)
{
    theX -= sizeX;
            //used with videoEvidence array
    for(let i = 0; i < whichArray.length; i++)
        {
        if(whichArray[i].description == criteria)
        {
            theX = theX + sizeX;  //columns across

            //filter for a MONTH, meaning, SHOW ONLY 1 month
            //if(whichArray[i].date.substring(0,2) == 3)

            //filter for Multiple MONTHS
            //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

            //filter for a DATE
            //if(whichArray[i].date.substring(0,10) == "02/29/2018")

            //filter for a Multiple DATES
            //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")
```

```
            //filter for a DAY, of any month, of any year
            //if(whichArray[i].date.substring(3,5) == 2)

            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               let createCategoryTitle = document.createElement("div");
               createCategoryTitle.style.position="absolute";
               createCategoryTitle.style.left= theX +'px';
               createCategoryTitle.style.top= theY -100 + 'px';
               createCategoryTitle.style.color="white";
               createCategoryTitle.style.zIndex="10";
               createCategoryTitle.style.fontFamily="exo";
               createCategoryTitle.style.fontWeight="bold";
               createCategoryTitle.style.fontSize="medium";
               createCategoryTitle.style.background="black";
               createCategoryTitle.style.textAlign="center";
               createCategoryTitle.style.width= sizeX +'px';
               createCategoryTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";

               createCategoryTitle.innerHTML=whichArray[i].title + "<br>"
+ "upload date " + "+ whichArray[i].date+" + "<br>" + "+ whichArray[i].url+"
```

```
+ "<br>" + '<a href=\"+ whichArray[i].url + '\'
target="_blank">Link</a><br>' + '<b style="color:aqua">\"+criteria+" +
"</b>";

                createCategoryTitle.id = Math.floor(300000 + Math.random()
* 9700000);

                let printButton = document.createElement("div");
                printButton.style.position="absolute";
                printButton.style.left= theX +'px';
                printButton.style.top= theY -25 + 'px';

                printButton.style.color="white";
                printButton.style.zIndex="10";

                printButton.innerHTML += '<button
onclick="printOnlyDiv(\"+createCategoryTitle.id+'\');"
class="ourButton">Print</button><br>';

                let makeVideo = document.createElement("iframe");

                makeVideo.src = whichArray[i].url;

                makeVideo.style.position="absolute";
                makeVideo.style.left= theX +'px';
                makeVideo.style.top= theY + 'px';
                makeVideo.style.color="aqua";
                makeVideo.style.zIndex="1";
                makeVideo.style.fontFamily="exo";
                makeVideo.style.fontWeight="bold";
                makeVideo.style.fontSize="xx-large";
                makeVideo.style.width= sizeX +'px';
                makeVideo.style.height= sizeY +'px';
                makeVideo.style.background="black";
                makeVideo.style.textAlign="center";
                makeVideo.style.border = "solid 2px rgba(100,100,255,1.0)";
```

```
                //makeVideo.setAttribute("class", "+criteria+");

                document.body.append(createCategoryTitle);
                document.body.append(makeVideo);
                document.body.append(printButton);
            }
        }
    }
}

    function makeVideosMultiFilters(theX, theY, sizeX, sizeY, whichArray,
criteria1, criteria2)
    {
        theX -= sizeX;
            //used with collegeVideos
            //used with boxingVideos
        for(let i = 0; i < whichArray.length; i++)
            {
           if(whichArray[i].tag == criteria1 && whichArray[i].description ==
criteria2)
            {
                //filter for a MONTH, meaning, SHOW ONLY 1 month
                //if(whichArray[i].date.substring(0,2) == 3)

                //filter for Multiple MONTHS
                //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

                //filter for a DATE
                //if(whichArray[i].date.substring(0,10) == "02/29/2018")

                //filter for a Multiple DATES
                //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")
```

```
            //filter for a DAY, of any month, of any year
            //if(whichArray[i].date.substring(3,5) == 2)

            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               theX = theX + sizeX;  //columns across

               let createCategoriesTitle = document.createElement("div");

               createCategoriesTitle.style.position="absolute";
               createCategoriesTitle.style.left= theX +'px';
               createCategoriesTitle.style.top= theY -100 + 'px';

               createCategoriesTitle.style.color="white";
               createCategoriesTitle.style.zIndex="10";
               createCategoriesTitle.style.fontFamily="exo";
               createCategoriesTitle.style.fontWeight="bold";
               createCategoriesTitle.style.fontSize="medium";
               createCategoriesTitle.style.background="black";
               createCategoriesTitle.style.textAlign="center";
               createCategoriesTitle.style.width= sizeX +'px';
               createCategoriesTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";
```

```
                createCategoriesTitle.innerHTML='<b
style="color:yellow">\"+criteria1+" + "</b>"+ " -   " + '<b
style="color:aqua">\"+criteria2+" + "</b><br>" + whichArray[i].title +
"<br>" + "upload date " + "+ whichArray[i].date+" + "<br>" + " +
whichArray[i].url+" + "<br>" + '<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br>';

                createCategoriesTitle.id = Math.floor(300000 + Math.random()
* 9700000);

                let printButtonHere = document.createElement("div");
                printButtonHere.style.position="absolute";
                printButtonHere.style.left= theX + 4 +'px';
                printButtonHere.style.top= theY -25 + 'px';

                printButtonHere.style.color="white";
                printButtonHere.style.zIndex="10";

                printButtonHere.innerHTML += '<button
onclick="printOnlyDiv(\"+createCategoriesTitle.id+'\');"
class="ourButton">Print</button><br>';

                let makeVideoHere = document.createElement("iframe");
                makeVideoHere.src = whichArray[i].url;
                makeVideoHere.style.position="absolute";
                makeVideoHere.style.left= theX +'px';
                makeVideoHere.style.top= theY + 'px';
                makeVideoHere.style.color="aqua";
                makeVideoHere.style.zIndex="1";
                makeVideoHere.style.fontFamily="exo";
                makeVideoHere.style.fontWeight="bold";
                makeVideoHere.style.fontSize="xx-large";
                makeVideoHere.style.width= sizeX +'px';
                makeVideoHere.style.height= sizeY +'px';
                makeVideoHere.style.background="black";
```

```
                makeVideoHere.style.textAlign="center";
                makeVideoHere.style.border = "solid 2px
rgba(100,100,255,1.0)";

                //makeVideo.setAttribute("class", "+criteria+");

                document.body.append(createCategoriesTitle);
                document.body.append(makeVideoHere);
                document.body.append(printButtonHere);
            }
        }
    }
}

/*Makes iframes in a row to add content to our level
  can be used to display Websites or Videos
  the websites must allow iframe
  the videos must allow embed
*/
function makeWebsitesOrVideos(theX, theY, sizeX, sizeY, whichArray,
criteria1)
{
    theX -= sizeX;
            //used with videoEvidence array
    for(let i = 0; i < whichArray.length; i++)
        {
        theX = theX + sizeX;  //columns across

        if(whichArray[i].tag == criteria1)
        {
            //filter for a MONTH, meaning, SHOW ONLY 1 month
            //if(whichArray[i].date.substring(0,2) == 3)

            //filter for Multiple MONTHS
            //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)
```

```
            //filter for a DATE
            //if(whichArray[i].date.substring(0,10) == "02/29/2018")

            //filter for a Multiple DATES
            //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

            //filter for a DAY, of any month, of any year
            //if(whichArray[i].date.substring(3,5) == 2)

            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               let videoCategoryTitle = document.createElement("div");
               videoCategoryTitle.style.position="absolute";
               videoCategoryTitle.style.left= theX +'px';
               videoCategoryTitle.style.top= theY -100 + 'px';

               videoCategoryTitle.style.color="white";
               videoCategoryTitle.style.zIndex="10";
               videoCategoryTitle.style.fontFamily="exo";
               videoCategoryTitle.style.fontWeight="bold";
               videoCategoryTitle.style.fontSize="medium";
```

```
                videoCategoryTitle.style.background="black";
                videoCategoryTitle.style.textAlign="center";
                videoCategoryTitle.style.width= sizeX +'px';
                videoCategoryTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";
                videoCategoryTitle.innerHTML='<b
style="color:yellow">\"+criteria1+" + "</b><br>" + whichArray[i].title + "  "
+ "<br> " + "upload date " + "+whichArray[i].date+" + "<br>" +
"+whichArray[i].url+" + "<br>" + '<a href=\"+whichArray[i].url+\'
target="_blank">Link</a><br>';

                videoCategoryTitle.id = Math.floor(200000 + Math.random() *
998000);

                let makeFrame = document.createElement("iframe");
                makeFrame.src = whichArray[i].url;

                makeFrame.style.position="absolute";
                makeFrame.style.left= theX +'px';
                makeFrame.style.top= theY + 'px';
                makeFrame.style.color="white";
                makeFrame.style.zIndex="1";
                makeFrame.style.fontFamily="exo";
                makeFrame.style.fontWeight="bold";
                makeFrame.style.fontSize="xx-large";
                makeFrame.style.width= sizeX +'px';
                makeFrame.style.height= sizeY +'px';
                makeFrame.style.border = "solid 2px rgba(100,100,255,1.0)";
                makeFrame.style.background="black";
                makeFrame.style.textAlign="center";

                //makeFrame.id = whichArray[i].id;

                let thePrintButton = document.createElement("div");
                thePrintButton.style.position="absolute";
                thePrintButton.style.left= theX + 2 +'px';
```

```
                thePrintButton.style.top= theY -15 + 'px';

                thePrintButton.style.color="white";
                thePrintButton.style.zIndex="10";

                thePrintButton.innerHTML += '<button
onclick="printOnlyDiv(\"+videoCategoryTitle.id+'\');"
class="ourButton">Print</button><br>';

                document.body.append(videoCategoryTitle);
                document.body.append(makeFrame);
                document.body.append(thePrintButton);
            }
        }
    }
}

    ////makes a row of videos, using internet url embed enabled videos, with
a reload button, so that the video and/or audio can be played again from the
start point.////
    function makeVideosOnlineStartEnd(theX, theY, sizeX, sizeY,
whichArray, criteria1, criteria2)
    {
        theX -= sizeX;
            //used with videoEvidence array
        for(let i = 0; i < whichArray.length; i++)
            {
           if(whichArray[i].tag == criteria1 && whichArray[i].description ==
criteria2)
            {
                //filter for a MONTH, meaning, SHOW ONLY 1 month
                //if(whichArray[i].date.substring(0,2) == 3)

                //filter for Multiple MONTHS
                //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)
```

```
            //filter for a DATE
            //if(whichArray[i].date.substring(0,10) == "02/29/2018")

            //filter for a Multiple DATES
            //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

            //filter for a DAY, of any month, of any year
            //if(whichArray[i].date.substring(3,5) == 2)

            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               theX = theX + sizeX;  //columns across

               let createCategoriesTitle = document.createElement("div");

               createCategoriesTitle.style.position="absolute";
               createCategoriesTitle.style.left= theX +'px';
               createCategoriesTitle.style.top= theY -100 + 'px';

               createCategoriesTitle.style.color="white";
               createCategoriesTitle.style.zIndex="10";
```

```
                createCategoriesTitle.style.fontFamily="exo";
                createCategoriesTitle.style.fontWeight="bold";
                createCategoriesTitle.style.fontSize="medium";
                createCategoriesTitle.style.background="black";
                createCategoriesTitle.style.textAlign="center";
                createCategoriesTitle.style.width= sizeX +'px';
                createCategoriesTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";

                createCategoriesTitle.innerHTML='<b
style="color:yellow">\"+criteria1+" + "</b>" + "  -   " + '<b
style="color:aqua">\"+criteria2+" + "</b><br>" + whichArray[i].title +
"<br>" + "upload date " + "+whichArray[i].date+" + "<br>" +
"+whichArray[i].url+" + "<br>" +'<a href=\"+ whichArray[i].url + '\'
target="_blank">Link</a><br>';

                createCategoriesTitle.id = Math.floor(300000 + Math.random()
* 9700000);

                let printButtonHere = document.createElement("div");
                printButtonHere.style.position="absolute";
                printButtonHere.style.left= theX + 4 +'px';
                printButtonHere.style.top= theY -45 + 'px';

                printButtonHere.style.color="white";
                printButtonHere.style.zIndex="10";

                printButtonHere.innerHTML += '<button
onclick="printOnlyDiv(\"+createCategoriesTitle.id+'\');"
class="ourButton">Print</button><br>';

                let makeVideoHere = document.createElement("iframe");

                makeVideoHere.id = Math.floor(350000 + Math.random() *
9750000);
```

```
                makeVideoHere.src = whichArray[i].url;

                makeVideoHere.style.position="absolute";
                makeVideoHere.style.left= theX +'px';
                makeVideoHere.style.top= theY + 'px';
                makeVideoHere.style.color="aqua";
                makeVideoHere.style.zIndex="1";
                makeVideoHere.style.fontFamily="exo";
                makeVideoHere.style.fontWeight="bold";
                makeVideoHere.style.fontSize="xx-large";
                makeVideoHere.style.width= sizeX +'px';
                makeVideoHere.style.height= sizeY +'px';
                makeVideoHere.style.background="black";
                makeVideoHere.style.textAlign="center";
                makeVideoHere.style.border = "solid 2px
rgba(100,100,255,1.0)";

                let reloadVideoButton = document.createElement("div");
                reloadVideoButton.style.position="absolute";
                reloadVideoButton.style.left= theX +5 +'px';
                reloadVideoButton.style.top= theY -17 + 'px';
                reloadVideoButton.style.zIndex="15";

                reloadVideoButton.innerHTML += '<button class="ourButton"
onclick=reloadOurVideo(\"'+makeVideoHere.id+'\")>Reload</button>';

                document.body.append(createCategoriesTitle);
                document.body.append(makeVideoHere);
                document.body.append(printButtonHere);
                document.body.append(reloadVideoButton);
            }
        }
    }
}

function reloadOurVideo(theFrameId)
```

```
    {
      document.getElementById(theFrameId).src =
document.getElementById(theFrameId).src;
    }

    //The endTime is kept, for when we later add an offline option, for the
possibility that a video might be taken offline, or made unable to embed, but
also if the person simply prefers the offline version.
    function makeVideosOnlineStartEndTIMECODE(theX, theY, sizeX,
sizeY, whichArray, criteria1, criteria2)
    {
       theX -= sizeX;

       let startTime;
       let endTime;

            //used with bdaBoxingComments array
       for(let i = 0; i < whichArray.length; i++)
           {
          startTime = secondsFromTimeCode(whichArray[i].startTime);
          endTime = secondsFromTimeCode(whichArray[i].endTime);

          //console.log(startTime + " and " + endTime);

          if(whichArray[i].name == criteria1 && whichArray[i].description
== criteria2)
          {
             //filter for a MONTH, meaning, SHOW ONLY 1 month
             //if(whichArray[i].date.substring(0,2) == 3)

             //filter for Multiple MONTHS
             //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

             //filter for a DATE
             //if(whichArray[i].date.substring(0,10) == "02/29/2018")
```

```
            //filter for a Multiple DATES
            //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

            //filter for a DAY, of any month, of any year
            //if(whichArray[i].date.substring(3,5) == 2)

            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               theX = theX + sizeX;  //columns across

               let createCategoriesTitle = document.createElement("div");
               createCategoriesTitle.style.position="absolute";
               createCategoriesTitle.style.left= theX +'px';
               createCategoriesTitle.style.top= theY -125 + 'px';
               createCategoriesTitle.style.color="white";
               createCategoriesTitle.style.zIndex="10";
               createCategoriesTitle.style.fontFamily="exo";
               createCategoriesTitle.style.fontWeight="bold";
               createCategoriesTitle.style.fontSize="medium";
               createCategoriesTitle.style.background="black";
               createCategoriesTitle.style.textAlign="center";
```

```
                createCategoriesTitle.style.width= sizeX +'px';
                createCategoriesTitle.style.paddingTop= 4 +'px';
                createCategoriesTitle.style.paddingBottom= 4 +'px';
                //createCategoriesTitle.style.height= 400 +'px';
                createCategoriesTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";

                createCategoriesTitle.innerHTML= '<b
style="color:aqua">\"+whichArray[i].title+" + "</b><br>" + "upload date " +
"+whichArray[i].date+" + "<br>" +'<a href=\"+ whichArray[i].url + "\?start="
+ startTime + "&end=" + endTime + '\' target="_blank">Link</a><br>'+
                "+whichArray[i].url + "\?start=" + startTime + "&end=" +
endTime + "<br>" + "+whichArray[i].startTime+"+ " to "+
"+whichArray[i].endTime+" + "<br>" + '<b
style="color:yellow">\"+criteria1+" +" " +criteria2+";

                createCategoriesTitle.id = Math.floor(300000 + Math.random()
* 9700000);

                let printButtonHere = document.createElement("div");
                printButtonHere.style.position="absolute";
                printButtonHere.style.left= theX + 2 +'px';
                printButtonHere.style.top= theY -38 + 'px';
                printButtonHere.style.color="white";
                printButtonHere.style.zIndex="10";
                printButtonHere.innerHTML += '<button
onclick="printOnlyDiv(\"+createCategoriesTitle.id+'\');"
class="ourButton">Print</button><br>';

                let detailsButton = document.createElement("div");
                detailsButton.style.position="absolute";
                detailsButton.style.left= theX + 2 +'px';
                detailsButton.style.top= theY -63 + 'px';
                detailsButton.style.color="white";
                detailsButton.style.zIndex="10";
```

```
                detailsButton.innerHTML += '<button
onclick="boxingDetails(\"+whichArray[i].words+'\');"
class="ourButton">Details</button><br>';

                let makeVideoHere = document.createElement("iframe");

                makeVideoHere.id = Math.floor(350000 + Math.random() *
9750000);

                makeVideoHere.src = whichArray[i].url + "?start=" +
startTime + "&?end=" + endTime;

                makeVideoHere.currentTime = whichArray[i].url + "?start=" +
startTime + "&?end=" + endTime;

                makeVideoHere.style.position="absolute";
                makeVideoHere.style.left= theX +'px';
                makeVideoHere.style.top= theY + 'px';
                makeVideoHere.style.color="aqua";
                makeVideoHere.style.zIndex="1";
                makeVideoHere.style.fontFamily="exo";
                makeVideoHere.style.fontWeight="bold";
                makeVideoHere.style.fontSize="xx-large";
                makeVideoHere.style.width= sizeX +'px';
                makeVideoHere.style.height= sizeY +'px';
                makeVideoHere.style.background="black";
                makeVideoHere.style.textAlign="center";
                makeVideoHere.style.border = "solid 2px
rgba(100,100,255,1.0)";

                let reloadVideoButton = document.createElement("div");
                reloadVideoButton.style.position="absolute";
                reloadVideoButton.style.left= theX + 2 +'px';
                reloadVideoButton.style.top= theY -13 + 'px';
                reloadVideoButton.style.zIndex="15";
```

```
                reloadVideoButton.innerHTML += '<button class="ourButton"
onclick=reloadOurVideo(\"'+makeVideoHere.id+'\")>Reload</button>';

                document.body.append(createCategoriesTitle);
                document.body.append(makeVideoHere);
                document.body.append(detailsButton);
                document.body.append(printButtonHere);
                document.body.append(reloadVideoButton);
            }
        }
    }
}

//This function shows all the videos of the boxing debate section
function makeVideosOnlineStartEndTIMECODEShowAll(theX, theY,
sizeX, sizeY, whichArray, criteria1)
{
    theX -= sizeX;

    let startTime;
    let endTime;

        //used with bdaBoxingComments array
    for(let i = 0; i < whichArray.length; i++)
     {
        startTime = secondsFromTimeCode(whichArray[i].startTime);
        endTime = secondsFromTimeCode(whichArray[i].endTime);

        //console.log(startTime + " and " + endTime);

        //if(whichArray[i].name == criteria1 && whichArray[i].description
== criteria2)
        if(whichArray[i].tag == criteria1) //SHOW ALL VIDEOS
        {
            //filter for a MONTH, meaning, SHOW ONLY 1 month
            //if(whichArray[i].date.substring(0,2) == 3)
```

```
            //filter for Multiple MONTHS
            //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

            //filter for a DATE
            //if(whichArray[i].date.substring(0,10) == "02/29/2018")

            //filter for a Multiple DATES
            //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

            //filter for a DAY, of any month, of any year
            //if(whichArray[i].date.substring(3,5) == 2)

            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               theX = theX + sizeX;  //columns across

               let makeVideoHere = document.createElement("iframe");
               makeVideoHere.id = Math.floor(350000 + Math.random() *
9750000);
```

```
                makeVideoHere.src = whichArray[i].url + "?start=" +
startTime + "&?end=" + endTime;

                makeVideoHere.currentTime = whichArray[i].url + "?start=" +
startTime + "&?end=" + endTime;

                makeVideoHere.style.position="absolute";
                makeVideoHere.style.left= theX +'px';
                makeVideoHere.style.top= theY + 'px';
                makeVideoHere.style.color="aqua";
                makeVideoHere.style.zIndex="1";
                makeVideoHere.style.fontFamily="exo";
                makeVideoHere.style.fontWeight="bold";
                makeVideoHere.style.fontSize="xx-large";
                makeVideoHere.style.width= sizeX +'px';
                makeVideoHere.style.height= sizeY +'px';
                makeVideoHere.style.background="black";
                makeVideoHere.style.textAlign="center";
                makeVideoHere.style.border = "solid 2px
rgba(100,100,255,1.0)";

                let createCategoriesTitle = document.createElement("div");
                createCategoriesTitle.style.position="absolute";
                createCategoriesTitle.style.left= theX +'px';
                createCategoriesTitle.style.top= theY -175 + 'px';
                createCategoriesTitle.style.color="white";
                createCategoriesTitle.style.zIndex="10";
                createCategoriesTitle.style.fontFamily="exo";
                createCategoriesTitle.style.fontWeight="bold";
                createCategoriesTitle.style.fontSize="medium";
                createCategoriesTitle.style.background="black";
                createCategoriesTitle.style.textAlign="center";
                createCategoriesTitle.style.width= sizeX +'px';
                createCategoriesTitle.style.paddingTop= 4 +'px';
                createCategoriesTitle.style.paddingBottom= 4 +'px';
                //createCategoriesTitle.style.height= 400 +'px';
```

```
                createCategoriesTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";

                createCategoriesTitle.id = Math.floor(300000 + Math.random()
* 9700000);

                createCategoriesTitle.innerHTML= '<b
style="color:aqua">\"+whichArray[i].title+" + "</b><br>" + "upload date " +
"+whichArray[i].date+" + "<br>" +'<a href=\"+ whichArray[i].url + "\?start="
+ startTime + "&end=" + endTime + '\' target="_blank">Link</a><br>'+
                "+whichArray[i].url + "\?start=" + startTime + "&end=" +
endTime + "<br>" + "+whichArray[i].startTime+"+ " to "+
"+whichArray[i].endTime+" + "<br>" + '<button
onclick="boxingDetails(\"+whichArray[i].words+'\);"
class="ourButton">Details</button>'+ '<button class="ourButton"
onclick="reloadOurVideo(\"+makeVideoHere.id+'\);">Reload</button>'
+'<button onclick="printOnlyDiv(\"+createCategoriesTitle.id+'\);"
class="ourButton">Print</button><br>' + '<b
style="color:aqua">\"+whichArray[i].name+" + "<br>" +'<b
style="color:yellow">\"+whichArray[i].description+";

                document.body.append(createCategoriesTitle);
                document.body.append(makeVideoHere);
            }
        }
    }
}

//Makes a Row of Video or Audio files, of mp3 or mp4 format
//video and/or audio files MUST BE placed in the _audio, _video folders,
//or, alternatively, you can define url2 as an internet address. If you are
using the folder option, define url2 as null in your data. That way it will use
the title as the src for the file.
function makeVideosUsingVideoFile(theX, theY, sizeX, sizeY,
whichArray, criteria1, criteria2)
{
```

```
        theX -= sizeX;
            //used with ourVideoFiles array
        for(let i = 0; i < whichArray.length; i++)
            {
           if(whichArray[i].tag == criteria1 && whichArray[i].description ==
criteria2)
            {
               //filter for a MONTH, meaning, SHOW ONLY 1 month
               //if(whichArray[i].date.substring(0,2) == 3)

               //filter for Multiple MONTHS
               //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

               //filter for a DATE
               //if(whichArray[i].date.substring(0,10) == "02/29/2018")

               //filter for a Multiple DATES
               //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

               //filter for a DAY, of any month, of any year
               //if(whichArray[i].date.substring(3,5) == 2)

               //filter for a YEAR
               //if(whichArray[i].date.substring(6,10) == 2019)

               //filter for MULTIPLE YEARS
               //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

               //filter for MONTH and YEAR
               //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

               //You can replace the if statement below,
```

```
            //with one of the options above.
            if(whichArray) //shows all items
            {
               theX = theX + sizeX;  //columns across

               let theCategoriesTitle = document.createElement("div");

               theCategoriesTitle.style.position="absolute";
               theCategoriesTitle.style.left= theX +'px';
               theCategoriesTitle.style.top= theY -150 + 'px';

               theCategoriesTitle.style.color="white";
               theCategoriesTitle.style.zIndex="10";
               theCategoriesTitle.style.fontFamily="exo";
               theCategoriesTitle.style.fontWeight="bold";
               theCategoriesTitle.style.fontSize="medium";
               theCategoriesTitle.style.background="black";
               theCategoriesTitle.style.textAlign="center";
               theCategoriesTitle.style.width= sizeX +'px';
               theCategoriesTitle.style.border = "solid 2px
rgba(100,100,255,1.0)";

               theCategoriesTitle.innerHTML='<b
style="color:yellow">\"+criteria1+" + "</b>" + "  -   " + '<b
style="color:aqua">\"+criteria2+" + "</b><br>" + whichArray[i].title +
"<br>" + "upload date " + "+whichArray[i].date+" + "<br>" +
"+whichArray[i].url+" + "<br>" +'<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br>'+ "Start Time " + whichArray[i].starttime +
"   " + " End Time " + whichArray[i].endtime + "<br>";

               theCategoriesTitle.id = Math.floor(300000 + Math.random() *
9700000);

               let thePrintButtonHere = document.createElement("div");
               thePrintButtonHere.style.position="absolute";
               thePrintButtonHere.style.left= theX +'px';
```

```
                thePrintButtonHere.style.top= theY -25 + 'px';

                thePrintButtonHere.style.color="white";
                thePrintButtonHere.style.zIndex="10";

                thePrintButtonHere.innerHTML += '<button
onclick="printOnlyDiv(\"+theCategoriesTitle.id+'\');"
class="ourButton">Print</button><br>';

                let theVideoHere = document.createElement("video");

                //theVideoHere.setAttribute("class", "+criteria+");
                theVideoHere.setAttribute("controls", ");

                /*If url2 is the word "null",
                //then it will use the movies folder as the source
                //else, if the url2 is defined, then it will use url2
                */
                if(whichArray[i].url2 == "null")
                {
                   if(whichArray[i].kind=="video")
                   {
                      //referencing the video folder
                      theVideoHere.src = "_video/" + whichArray[i].title + "." +
whichArray[i].type;
                   }
                   if(whichArray[i].kind=="audio")
                   {
                      //referencing the audio folder
                      theVideoHere.src = "_audio/" + whichArray[i].title + "." +
whichArray[i].type;
                   }
                }
                else  //else if url2 is defined, then use url2 as source
                {
                   if(whichArray[i].kind=="video")
```

```
                {
                   //referencing the url of the video online
                   theVideoHere.src = whichArray[i].url2;
                }
                if(whichArray[i].kind=="audio")
                {
                   //referencing the url of the audio online
                   theVideoHere.src = whichArray[i].url2;
                }
             }


theVideoHere.currentTime=secondsFromTimeCode(whichArray[i].starttime);

                theVideoHere.style.position="absolute";
                theVideoHere.style.left= theX +'px';
                theVideoHere.style.top= theY + 'px';
                theVideoHere.style.color="aqua";
                theVideoHere.style.zIndex="1";
                theVideoHere.style.fontFamily="exo";
                theVideoHere.style.fontWeight="bold";
                theVideoHere.style.fontSize="xx-large";
                theVideoHere.style.width= sizeX +'px';
                theVideoHere.style.height= sizeY +'px';
                theVideoHere.style.background="black";
                theVideoHere.style.textAlign="center";
                theVideoHere.style.border = "solid 2px
rgba(100,100,255,1.0)";

                theVideoHere.id = Math.floor(300000 + Math.random() *
9700000);

                let continuePlay100 = document.createElement("div");
                continuePlay100.style.position="absolute";
                continuePlay100.style.left= theX +'px';
                continuePlay100.style.top= theY +75 + 'px';
```

```
            continuePlay100.style.zIndex="15";

            continuePlay100.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
+ourVideoFiles[i].endtime+'\',1.0,1)"
class="ourButton">&#11208;100</button><br>';

            let continuePlay50 = document.createElement("div");
            continuePlay50.style.position="absolute";
            continuePlay50.style.left= theX +'px';
            continuePlay50.style.top= theY +100 + 'px';
            continuePlay50.style.zIndex="15";

            continuePlay50.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
+ourVideoFiles[i].endtime+'\',0.5,1)"
class="ourButton">&#11208;50</button><br>';

            let continuePlay25 = document.createElement("div");
            continuePlay25.style.position="absolute";
            continuePlay25.style.left= theX +'px';
            continuePlay25.style.top= theY +125 + 'px';
            continuePlay25.style.zIndex="15";

            continuePlay25.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
+ourVideoFiles[i].endtime+'\',0.25,1)"
class="ourButton">&#11208;25</button><br>';

            let continuePlay10 = document.createElement("div");
            continuePlay10.style.position="absolute";
            continuePlay10.style.left= theX +'px';
            continuePlay10.style.top= theY +150 + 'px';
            continuePlay10.style.zIndex="15";
```

```
                continuePlay10.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
+ourVideoFiles[i].endtime+'\',0.10,1)"
class="ourButton">&#11208;10</button><br>';

                let playButton100 = document.createElement("div");
                playButton100.style.position="absolute";
                playButton100.style.left= theX +'px';
                playButton100.style.top= theY +200 + 'px';
                playButton100.style.zIndex="15";

                playButton100.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
+ourVideoFiles[i].endtime+'\',1.0, 0)"
class="ourButton">&#9684;100</button><br>';

                let playButton50 = document.createElement("div");
                playButton50.style.position="absolute";
                playButton50.style.left= theX +'px';
                playButton50.style.top= theY +225 + 'px';

                playButton50.style.zIndex="15";

                playButton50.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
+ourVideoFiles[i].endtime+'\',0.5, 0)"
class="ourButton">&#9684;50</button><br>';

                let playButton25 = document.createElement("div");
                playButton25.style.position="absolute";
                playButton25.style.left= theX +'px';
                playButton25.style.top= theY +250 + 'px';
                playButton25.style.zIndex="15";

                playButton25.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
```

```
+ourVideoFiles[i].endtime+'\',0.25, 0)"
class="ourButton">&#9684;25</button><br>';

                let playButton10 = document.createElement("div");
                playButton10.style.position="absolute";
                playButton10.style.left= theX +'px';
                playButton10.style.top= theY +275 + 'px';

                playButton10.style.zIndex="15";

                playButton10.innerHTML += '<button
onclick="playVideo(\"+theVideoHere.id+'\', \"+ourVideoFiles[i].starttime+'\',\"
+ourVideoFiles[i].endtime+'\',0.10, 0)"
class="ourButton">&#9684;10</button><br>';

                document.body.append(theCategoriesTitle);
                document.body.append(theVideoHere);
                document.body.append(thePrintButtonHere);
                document.body.append(continuePlay100);
                document.body.append(continuePlay50);
                document.body.append(continuePlay25);
                document.body.append(continuePlay10);
                document.body.append(playButton100);
                document.body.append(playButton50);
                document.body.append(playButton25);
                document.body.append(playButton10);
            }
        }
    }
}

function secondsFromTimeCode(fullTimeCode)
{
    if(!fullTimeCode) fullTimeCode = '00:00:00';
    let theStringSeconds = fullTimeCode;
    let splitValue = theStringSeconds.split(":");
```

```
            let secondsOnly = parseInt(splitValue[2]);
            let secondsFromMinutes = parseInt(splitValue[1]) * 60;
            let secondsFromHours = parseInt(splitValue[0]) * 3600;

            let calculatedSeconds = secondsFromHours + secondsFromMinutes
+ secondsOnly;
            //now seconds variable is an array, 1:2:3

            return calculatedSeconds;
        }

        let endTimeEntered;
        let ourVideoHere;

        function playVideo(elementid, starttime, endtime, videoSpeed,
continueOption)
        {
           starttime = secondsFromTimeCode(starttime);
           endtime = secondsFromTimeCode(endtime);

           ourVideoHere = document.getElementById(elementid);

           ourVideoHere.playbackRate = videoSpeed;

           ourVideoHere.addEventListener("timeupdate",pauseVideo);

           if(continueOption == 1)
           {
              ourVideoHere.removeEventListener("timeupdate",pauseVideo);
           }
           ourVideoHere.currentTime = starttime;
           ourVideoHere.play();
           endTimeEntered = endtime;
        }
```

```
function pauseVideo()
{
      if (ourVideoHere.currentTime >= endTimeEntered)
      {
     ourVideoHere.pause();
  }
}

/*Makes divs in a row - custom for news Data*/
function newsRow(theX, theY, sizeX, sizeY, whichArray, criteria1)
{
   theX -= sizeX;
         //used with theNews array
   for(let i = 0; i < whichArray.length; i++)
       {
      theX = theX + sizeX;  //columns across

      if(whichArray[i].tag == criteria1)
      {
         //filter for a MONTH, meaning, SHOW ONLY 1 month
         //if(whichArray[i].date.substring(0,2) == 3)

         //filter for Multiple MONTHS
         //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

         //filter for a DATE
         //if(whichArray[i].date.substring(0,10) == "02/29/2018")

         //filter for a Multiple DATES
         //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

         //filter for a DAY, of any month, of any year
         //if(whichArray[i].date.substring(3,5) == 2)
```

```
            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               let newsTitle = document.createElement("div");
               newsTitle.style.position="absolute";
               newsTitle.style.left= theX +'px';
               newsTitle.style.top= theY -22 + 'px';

               newsTitle.style.color="white";
               newsTitle.style.zIndex="10";
               newsTitle.style.fontFamily="exo";
               newsTitle.style.fontWeight="bold";
               newsTitle.style.fontSize="medium";
               newsTitle.style.background="black";
               newsTitle.style.textAlign="center";
               newsTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
               newsTitle.style.width= sizeX +'px';
               newsTitle.innerHTML="NEWS";

               let newsSpace = document.createElement("div");
               newsSpace.style.position="absolute";
               newsSpace.style.left= theX +'px';
               newsSpace.style.top= theY + 'px';
               newsSpace.style.color="black";
```

```
                newsSpace.style.zIndex="100";
                newsSpace.style.border = "solid 2px rgba(100,100,255,1.0)";
                newsSpace.style.fontFamily="exo";
                newsSpace.style.fontWeight="bold";
                newsSpace.style.fontSize="normal";
                newsSpace.style.width= sizeX +'px';
                newsSpace.style.height= sizeY +'px';
                newsSpace.style.background="white";
                newsSpace.style.textAlign="center";

                //newsSpace.id = whichArray[i].id;
                newsSpace.id = Math.floor(352000 + Math.random() *
9740000);

                newsSpace.innerHTML += '<button
onclick="printOnlyDiv(\"+newsSpace.id+'\');"
class="ourButton">Print</button><br>';

                newsSpace.innerHTML += whichArray[i].headline + "<br>";

                newsSpace.innerHTML+= whichArray[i].date + "<br>";

                newsSpace.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a>';

                document.body.append(newsSpace);
                document.body.append(newsTitle);
            }
        }
    }
}

function evidenceRow(theX, theY, sizeX, sizeY, whichArray, criteria1)
{
    theX -= sizeX;
        //used with evidence array
```

```
        for(let i = 0; i < whichArray.length; i++)
            {
            theX = theX + sizeX;  //columns across

            if(whichArray[i].tag == criteria1)
            {
                //filter for a MONTH, meaning, SHOW ONLY 1 month
                //if(whichArray[i].date.substring(0,2) == 3)

                //filter for Multiple MONTHS
                //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

                //filter for a DATE
                //if(whichArray[i].date.substring(0,10) == "02/29/2018")

                //filter for a Multiple DATES
                //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

                //filter for a DAY, of any month, of any year
                //if(whichArray[i].date.substring(3,5) == 2)

                //filter for a YEAR
                //if(whichArray[i].date.substring(6,10) == 2019)

                //filter for MULTIPLE YEARS
                //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

                //filter for MONTH and YEAR
                //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

                //You can replace the if statement below,
                //with one of the options above.
```

```
if(whichArray) //shows all items
{
   let evidenceTitle = document.createElement("div");
   evidenceTitle.style.position="absolute";
   evidenceTitle.style.left= theX +'px';
   evidenceTitle.style.top= theY -22 + 'px';

   evidenceTitle.style.color="white";
   evidenceTitle.style.zIndex="10";
   evidenceTitle.style.fontFamily="exo";
   evidenceTitle.style.fontWeight="bold";
   evidenceTitle.style.fontSize="medium";
   evidenceTitle.style.background="black";
   evidenceTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
   //evidenceTitle.style.padding="0px 5px 0px 5px";

   evidenceTitle.style.paddingLeft="20px";
   evidenceTitle.style.paddingRight="20px";

   evidenceTitle.style.textAlign="center";
   evidenceTitle.style.width= sizeX +'px';
   evidenceTitle.innerHTML="EvidenceRow";

   let evidenceRow = document.createElement("p");
   evidenceRow.style.position="absolute";
   evidenceRow.style.left= theX + 'px';
   evidenceRow.style.top= theY +'px';
   evidenceRow.style.color="black";
   evidenceRow.style.zIndex="1";
   evidenceRow.style.border = "solid 2px rgba(100,100,255,1.0)";
   evidenceRow.style.fontFamily="exo";
   evidenceRow.style.fontWeight="normal";
   evidenceRow.style.fontSize="medium";

   //evidenceRow.style.padding="0px 5px 0px 5px";
   evidenceRow.style.paddingLeft="20px";
```

```
                evidenceRow.style.paddingRight="20px";

                evidenceRow.style.background="white";
                evidenceRow.style.textAlign="center";
                evidenceRow.style.width= sizeX +'px';
                evidenceRow.style.height= sizeY +'px';

                //evidenceRow.id = whichArray[i].id;
                evidenceRow.id = Math.floor(356000 + Math.random() *
9760000);

                evidenceRow.innerHTML += '<button
onclick="printOnlyDiv(\"+evidenceRow.id+'\');"
class="ourButton">Print</button><br>';

                evidenceRow.innerHTML += whichArray[i].title + "<br>";

                evidenceRow.innerHTML += whichArray[i].date + "<br>";

                evidenceRow.innerHTML += whichArray[i].info +  "<br>";

                evidenceRow.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a>';

                document.body.append(evidenceRow);
                document.body.append(evidenceTitle);
            }
        }
    }
}

    function evidenceWithImageRow(theX, theY, sizeX, sizeY, whichArray,
criteria1)
    {
        theX -= sizeX;
            //used with evidence Array
```

```
        for(let i = 0; i < whichArray.length; i++)
            {
            theX = theX + sizeX;  //columns across

            if(whichArray[i].tag == criteria1)
            {
                //filter for a MONTH, meaning, SHOW ONLY 1 month
                //if(whichArray[i].date.substring(0,2) == 3)

                //filter for Multiple MONTHS
                //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

                //filter for a DATE
                //if(whichArray[i].date.substring(0,10) == "02/29/2018")

                //filter for a Multiple DATES
                //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

                //filter for a DAY, of any month, of any year
                //if(whichArray[i].date.substring(3,5) == 2)

                //filter for a YEAR
                //if(whichArray[i].date.substring(6,10) == 2019)

                //filter for MULTIPLE YEARS
                //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

                //filter for MONTH and YEAR
                //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

                //You can replace the if statement below,
                //with one of the options above.
```

```
            if(whichArray) //shows all items
            {
               let theTitle = document.createElement("div");
               theTitle.style.position="absolute";
               theTitle.style.left= theX +'px';
               theTitle.style.top= theY -22 + 'px';

               theTitle.style.color="white";
               theTitle.style.zIndex="10";
               theTitle.style.fontFamily="exo";
               theTitle.style.fontWeight="bold";
               theTitle.style.fontSize="medium";
               theTitle.style.background="black";
               theTitle.style.textAlign="center";
               theTitle.style.padding="0px 20px 0px 20px";
                     //top //right //bottom //left
               theTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
               theTitle.style.width= sizeX +'px';
               theTitle.innerHTML="EvidenceRowWithImage";

               let theDiv = document.createElement("div");

               //theDiv.id = whichArray[i].id;
               theDiv.id = Math.floor(357000 + Math.random() * 9770000);

               theDiv.innerHTML += '<button
onclick="printOnlyDiv(\"+theDiv.id+'\');"
class="ourButton">print</button><br>';

               theDiv.style.position="absolute";
               theDiv.style.left= theX +'px';
               theDiv.style.top= theY +'px';
               theDiv.style.color="black";
               theDiv.style.zIndex="1";
               theDiv.style.padding="0px 20px 0px 20px";
                        //top //right //bottom //left
```

```
                theDiv.style.border = "solid 2px rgba(100,100,255,1.0)";
                theDiv.style.fontFamily="exo";
                theDiv.style.fontWeight="normal";
                theDiv.style.fontSize="medium";
                theDiv.style.width= sizeX +'px';
                theDiv.style.height= sizeY + 'px';
                theDiv.style.background="white";
                theDiv.style.textAlign="center";

                theDiv.setAttribute("class", "evidenceWithImage");
                //theDiv.style.whiteSpace="pre-wrap";
                //theDiv.style.wordWrap="break-word";

                theDiv.innerHTML += whichArray[i].title + "<br>";

                theDiv.innerHTML += whichArray[i].date + "<br>";

                theDiv.innerHTML += whichArray[i].info + "<br>";

                theDiv.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br>';

                theDiv.innerHTML += '<img src= \"+whichArray[i].image+'\'
class="theImage">';

                document.body.append(theDiv);
                document.body.append(theTitle);
            }
        }
    }
}

    function scienceImagesAndLink(theX, theY, sizeX, sizeY, whichArray,
criteria1, criteria2)
    {
        theX -= sizeX;
```

```
            //used with evidence Array
        for(let i = 0; i < whichArray.length; i++)
            {
            theX = theX + sizeX;  //columns across

            if(whichArray[i].tag == criteria1 && whichArray[i].description ==
criteria2)
            {
                //filter for a MONTH, meaning, SHOW ONLY 1 month
                //if(whichArray[i].date.substring(0,2) == 3)

                //filter for Multiple MONTHS
                //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

                //filter for a DATE
                //if(whichArray[i].date.substring(0,10) == "02/29/2018")

                //filter for a Multiple DATES
                //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

                //filter for a DAY, of any month, of any year
                //if(whichArray[i].date.substring(3,5) == 2)

                //filter for a YEAR
                //if(whichArray[i].date.substring(6,10) == 2019)

                //filter for MULTIPLE YEARS
                //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

                //filter for MONTH and YEAR
                //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)
```

```
            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               let theTitle = document.createElement("div");
               theTitle.style.position="absolute";
               theTitle.style.left= theX +'px';
               theTitle.style.top= theY -22 + 'px';

               theTitle.style.color="white";
               theTitle.style.zIndex="10";
               theTitle.style.fontFamily="exo";
               theTitle.style.fontWeight="bold";
               theTitle.style.fontSize="medium";
               theTitle.style.background="black";
               theTitle.style.textAlign="center";
               theTitle.style.padding="0px 20px 0px 20px";
                     //top //right //bottom //left
               theTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
               theTitle.style.width= sizeX +'px';
               theTitle.innerHTML="Science Row with Image and Link";

               let theDiv = document.createElement("div");

               //theDiv.id = whichArray[i].id;
               theDiv.id = Math.floor(357000 + Math.random() * 9770000);

               theDiv.innerHTML += '<button
onclick="printOnlyDiv(\"+theDiv.id+'\');"
class="ourButton">Print</button><br>';

               theDiv.style.position="absolute";
               theDiv.style.left= theX +'px';
               theDiv.style.top= theY +'px';
               theDiv.style.color="black";
               theDiv.style.zIndex="1";
```

```
                theDiv.style.padding="0px 20px 0px 20px";
                        //top //right //bottom //left
                theDiv.style.border = "solid 2px rgba(100,100,255,1.0)";
                theDiv.style.fontFamily="exo";
                theDiv.style.fontWeight="normal";
                theDiv.style.fontSize="medium";
                theDiv.style.width= sizeX +'px';
                theDiv.style.height= sizeY + 'px';
                theDiv.style.background="white";
                theDiv.style.textAlign="center";

                theDiv.setAttribute("class", "evidenceWithImage");
                //theDiv.style.whiteSpace="pre-wrap";
                //theDiv.style.wordWrap="break-word";

                theDiv.innerHTML += whichArray[i].title + "<br>";

                theDiv.innerHTML += whichArray[i].date + "<br>";

                theDiv.innerHTML += whichArray[i].info + "<br>";

                theDiv.innerHTML+='<details><a
href=\"+whichArray[i].url+'\' target="_blank">\"+whichArray[i].url+'\'
</a></details><br>';

                theDiv.innerHTML += '<img src= \"+whichArray[i].image+'\'
class="theScienceImages">';

                document.body.append(theDiv);
                document.body.append(theTitle);
            }
        }
    }
}
```

```
    function socialMediaEvidenceRow(theX, theY, sizeX, sizeY,
whichArray, criteria1)
    {
       theX -= sizeX;
            //used with socialMediaEvidence Array
       for(let i = 0; i < whichArray.length; i++)
           {
          //alert(whichArray[i].date.substring(6,10));
          if(whichArray[i].tag == criteria1)
          {
             //filter for a MONTH, meaning, SHOW ONLY 1 month
             //if(whichArray[i].date.substring(0,2) == 3)

             //filter for Multiple MONTHS
             //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

             //filter for a DATE
             //if(whichArray[i].date.substring(0,10) == "02/29/2018")

             //filter for a Multiple DATES
             //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

             //filter for a DAY, of any month, of any year
             //if(whichArray[i].date.substring(3,5) == 2)

             //filter for a YEAR
             if(whichArray[i].date.substring(6,10) == 2020)

             //filter for MULTIPLE YEARS
             //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

             //filter for MONTH and YEAR
```

```
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            //if(whichArray) //shows all items
            {
               if(whichArray[i].probability >= 50)
               {
                  theX = theX + sizeX;  //columns across

                  let divTitle = document.createElement("div");
                  divTitle.style.position="absolute";
                  divTitle.style.left= theX +'px';
                  divTitle.style.top= theY -22 + 'px';

                  divTitle.style.color="white";
                  divTitle.style.zIndex="10";
                  divTitle.style.fontFamily="exo";
                  divTitle.style.fontWeight="bold";
                  divTitle.style.fontSize="medium";
                  divTitle.style.background="black";
                  divTitle.style.textAlign="center";
                  //divTitle.style.padding="0px 5px 0px 5px";
                  divTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
                  divTitle.style.width= sizeX +'px';
                  divTitle.innerHTML="Social Media Evidence Rating";

                  let divHere = document.createElement("div");

                  //theDiv.id = whichArray[i].id;
                  divHere.id = Math.floor(357000 + Math.random() *
9770000);
```

```
                divHere.innerHTML += '<button
onclick="printOnlyDiv(\"+divHere.id+'\');"
class="ourButton">Print</button><br>';

                divHere.style.position="absolute";
                divHere.style.left= theX +'px';
                divHere.style.top= theY +'px';
                divHere.style.color="black";
                divHere.style.zIndex="1";
                //divHere.style.padding="0px 5px 0px 5px";
                divHere.style.border = "solid 2px rgba(100,100,255,1.0)";
                divHere.style.fontFamily="exo";
                divHere.style.fontWeight="normal";
                divHere.style.fontSize="medium";
                divHere.style.width= sizeX +'px';
                divHere.style.height= sizeY + 'px';
                divHere.style.background="white";
                divHere.style.textAlign="center";

                //you can also set the class of the div,
                //to style it easier in the css section
                //divHere.setAttribute("class", "socialMediaEvidence");

                divHere.innerHTML += whichArray[i].title + "<br>";

                divHere.innerHTML += whichArray[i].date + "<br>";

                divHere.innerHTML += whichArray[i].info + "<br>";

                divHere.innerHTML += "Probability Rating: " +
whichArray[i].probability + "%" + "<br>";

                divHere.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br>';
```

```
                    divHere.innerHTML += '<img
src= \"+whichArray[i].image+'\' class="theImage">';

                    document.body.append(divHere);
                    document.body.append(divTitle);
                }
            }
        }
    }

    function detailsRow(theX, theY, sizeX, sizeY, whichArray, criteria1)
    {
        theX -= sizeX;
            //used with socialMediaEvidence Array
        for(let i = 0; i < whichArray.length; i++)
            {
            if(whichArray[i].tag == criteria1)
            {
                //filter for a MONTH, meaning, SHOW ONLY 1 month
                //if(whichArray[i].date.substring(0,2) == 3)

                //filter for Multiple MONTHS
                //if(whichArray[i].date.substring(0,2) == 8 ||
whichArray[i].date.substring(0,2) == 9)

                //filter for a DATE
                //if(whichArray[i].date.substring(0,10) == "02/29/2018")

                //filter for a Multiple DATES
                //if(whichArray[i].date.substring(0,10) == "02/29/2018" ||
whichArray[i].date.substring(0,10) == "02/29/2020")

                //filter for a DAY, of any month, of any year
                //if(whichArray[i].date.substring(3,5) == 2)
```

```
            //filter for a YEAR
            //if(whichArray[i].date.substring(6,10) == 2019)

            //filter for MULTIPLE YEARS
            //if(whichArray[i].date.substring(6,10) == 2019 ||
whichArray[i].date.substring(6,10) == 2020)

            //filter for MONTH and YEAR
            //if(whichArray[i].date.substring(0,2) == 2 &&
whichArray[i].date.substring(6,10) == 2020)

            //You can replace the if statement below,
            //with one of the options above.
            if(whichArray) //shows all items
            {
               if(whichArray[i].probability >= 50)
               {
                  theX = theX + sizeX;  //columns across

                  let divTitle = document.createElement("div");
                  divTitle.style.position="absolute";
                  divTitle.style.left= theX +'px';
                  divTitle.style.top= theY -55 + 'px';

                  divTitle.style.color="white";
                  divTitle.style.zIndex="10";
                  divTitle.style.fontFamily="exo";
                  divTitle.style.fontWeight="bold";
                  divTitle.style.fontSize="medium";
                  divTitle.style.background="black";
                  divTitle.style.textAlign="center";
                  //divTitle.style.padding="0px 5px 0px 5px";
                  divTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
                  divTitle.style.width= sizeX +'px';
                  divTitle.innerHTML="Content Sensitive - Open at Your
Discretion" + "<b style='color:aqua'><br>" +  whichArray[i].title + "<br>";
```

```
                let divHere = document.createElement("details");

                //theDiv.id = whichArray[i].id;
                divHere.id = Math.floor(357000 + Math.random() *
9770000);

                divHere.innerHTML += '<button
onclick="printOnlyDiv(\"+divHere.id+'\');"
class="ourButton">Print</button><br>';

                divHere.style.position="absolute";
                divHere.style.left= theX +'px';
                divHere.style.top= theY +'px';
                divHere.style.color="black";
                divHere.style.zIndex="1";
                //divHere.style.padding="0px 5px 0px 5px";
                divHere.style.border = "solid 2px rgba(100,100,255,1.0)";
                divHere.style.fontFamily="exo";
                divHere.style.fontWeight="bold";
                divHere.style.fontSize="large";
                divHere.style.width= sizeX +'px';
                divHere.style.height= sizeY + 'px';
                divHere.style.background="rgb(200,200,200)";
                divHere.style.textAlign="center";

                //you can also set the class of the div,
                //to style it easier in the css section
                //divHere.setAttribute("class", "socialMediaEvidence");

                divHere.innerHTML += whichArray[i].title + "<br>";

                divHere.innerHTML += whichArray[i].date + "<br>";

                divHere.innerHTML += whichArray[i].info + "<br>";
```

```
                    divHere.innerHTML += "Probability Rating: " +
whichArray[i].probability + "%" + "<br>";

                    divHere.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br>';

                    divHere.innerHTML += '<img
src= \"+whichArray[i].image+'\' class="theImage">';

                    document.body.append(divTitle);
                    document.body.append(divHere);
                }
            }
        }
    }

    function collegeBooksRow(theX, theY, sizeX, sizeY, whichArray)
    {
        theX -= sizeX;
            //used with collegeBooks Array
        for(let i = 0; i < whichArray.length; i++)
            {
        theX = theX + sizeX;  //columns across

        let ourTitle = document.createElement("div");
        ourTitle.style.position="absolute";
        ourTitle.style.left= theX +'px';
        ourTitle.style.top= theY -28 + 'px';

        ourTitle.style.color="white";
        ourTitle.style.zIndex="10";
        ourTitle.style.fontFamily="exo";
        ourTitle.style.fontWeight="bold";
        ourTitle.style.fontSize="medium";
        ourTitle.style.background="black";
```

```
            ourTitle.style.textAlign="center";
            ourTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
            ourTitle.style.width= sizeX +'px';
            ourTitle.innerHTML="College Books";

            let ourDiv = document.createElement("p");

            //theDiv.id = whichArray[i].id;
            ourDiv.id = Math.floor(457000 + Math.random() * 9870000);

            ourDiv.innerHTML += '<button
onclick="printOnlyDiv(\"+ourDiv.id+'\');"
class="ourButton">Print</button><br>';

            ourDiv.style.position="absolute";
            ourDiv.style.left= theX +'px';
            ourDiv.style.top= theY +'px';
            ourDiv.style.color="black";
            ourDiv.style.zIndex="1";
            ourDiv.style.border = "solid 2px rgba(100,100,255,1.0)";
            ourDiv.style.fontFamily="exo";
            ourDiv.style.fontWeight="normal";
            ourDiv.style.fontSize="medium";
            ourDiv.style.width= sizeX +'px';
            ourDiv.style.height= sizeY + 'px';
            ourDiv.style.background="white";
            ourDiv.style.textAlign="center";

            ourDiv.innerHTML += whichArray[i].name + "<br>";

            ourDiv.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br>';

            ourDiv.innerHTML += '<img src= \"+whichArray[i].image+'\'
class="theImage">';
```

```
        document.body.append(ourDiv);
        document.body.append(ourTitle);
    }
}

function collegeLinksRow(theX, theY, sizeX, sizeY, whichArray)
{
    theX -= sizeX;
         //used with collegeLinks Array
    for(let i = 0; i < whichArray.length; i++)
         {
        theX = theX + sizeX;  //columns across

        let thisTitle = document.createElement("div");
        thisTitle.style.position="absolute";
        thisTitle.style.left= theX +'px';
        thisTitle.style.top= theY -28 + 'px';

        thisTitle.style.color="white";
        thisTitle.style.zIndex="10";
        thisTitle.style.fontFamily="exo";
        thisTitle.style.fontWeight="bold";
        thisTitle.style.fontSize="medium";
        thisTitle.style.background="black";
        thisTitle.style.textAlign="center";
        thisTitle.style.border = "solid 2px rgba(100,100,255,1.0)";
        thisTitle.style.width= sizeX +'px';
        thisTitle.innerHTML="College Links";

        let thisDiv = document.createElement("p");

        //theDiv.id = whichArray[i].id;
        thisDiv.id = Math.floor(456000 + Math.random() * 9770000);

        //Print Feature
```

```
            //thisDiv.innerHTML += '<button
onclick="printOnlyDiv(\"+thisDiv.id+'\');">print</button><br>';

            thisDiv.style.position="absolute";
            thisDiv.style.left= theX +'px';
            thisDiv.style.top= theY +'px';
            thisDiv.style.color="black";
            thisDiv.style.zIndex="1";
            thisDiv.style.border = "solid 2px rgba(100,100,255,1.0)";
            thisDiv.style.fontFamily="exo";
            thisDiv.style.fontWeight="bold";
            thisDiv.style.fontSize="medium";
            thisDiv.style.width= sizeX +'px';
            thisDiv.style.height= sizeY + 'px';
            thisDiv.style.background="white";
            thisDiv.style.textAlign="center";

            thisDiv.innerHTML += whichArray[i].name + "<br>";

            thisDiv.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br>';

            document.body.append(thisDiv);
            document.body.append(thisTitle);
        }
    }

    function languageRowEASY(theX, theY, sizeX, sizeY, whichArray,
criteria1, criteria2)
    {
        theX -= sizeX;
            //used with lindenLanguage array
            //used with javascriptLanguage array
        for(let i = 0; i < whichArray.length; i++)
            {
```

```
            if(whichArray[i].category == criteria1 && whichArray[i].tag ==
criteria2)
             {
               theX = theX + sizeX + 20;  //columns across + the padding!

               let functionCategory = document.createElement("div");
               functionCategory.style.position="absolute";
               functionCategory.style.left= theX +'px';
               functionCategory.style.top= theY -40 + 'px';
               functionCategory.style.color="white";
               functionCategory.style.zIndex="10";
               functionCategory.style.fontFamily="exo";
               functionCategory.style.fontWeight="bold";
               functionCategory.style.fontSize="large";
               functionCategory.style.background="black";
               functionCategory.style.textAlign="center";
               functionCategory.style.border = "solid 2px
rgba(100,100,255,1.0)";
               functionCategory.style.width= sizeX +'px';
               functionCategory.style.height= 200 +'px';
               functionCategory.style.paddingLeft="20px";
               functionCategory.style.paddingRight="20px";
               functionCategory.style.paddingTop="4px";
               functionCategory.innerHTML= whichArray[i].language + "<b
style='color:aqua'><br>" + whichArray[i].category + "<br>" + "<b
style='color:yellow'>" + whichArray[i].name;

               let languageSpace = document.createElement("p");
               languageSpace.style.position="absolute";
               languageSpace.style.left= theX +'px';
               languageSpace.style.top= theY +25 + 'px';
               languageSpace.style.color="black";
               languageSpace.style.zIndex="100";
               languageSpace.style.border = "solid 2px rgba(100,100,255,1.0)";
               languageSpace.style.fontFamily="exo";
               languageSpace.style.fontWeight="bold";
```

```
            languageSpace.style.fontSize="normal";
            languageSpace.style.width= sizeX +'px';
            languageSpace.style.height= sizeY +'px';
            languageSpace.style.background="white";
            languageSpace.style.textAlign="left";
            languageSpace.style.paddingLeft="20px";
            languageSpace.style.paddingRight="20px";

            //languageSpace.id = whichArray[i].id;
            languageSpace.id = Math.floor(351000 + Math.random() *
9710000);

            languageSpace.innerHTML += '<hr><button
onclick="printOnlyDiv(\"+languageSpace.id+'\');"
class="ourButton">Print</button><br><hr>';

            languageSpace.innerHTML+= "Name of Function:<br>";
            languageSpace.innerHTML += whichArray[i].name +
"<br><hr>";

            languageSpace.innerHTML+= "Description:<br>";
            languageSpace.innerHTML+= whichArray[i].description +
"<br><hr>";

            languageSpace.innerHTML+= "Syntax:<br>";
            languageSpace.innerHTML += whichArray[i].syntax +
"<br><hr>";

            languageSpace.innerHTML+= "Useage:<br>";
            languageSpace.innerHTML+= whichArray[i].useage +
"<br><hr>";

            languageSpace.innerHTML+= "URL:<br>";
            languageSpace.innerHTML+='<a href=\"+whichArray[i].url+'\'
target="_blank">Link</a><br><hr>';
```

```
                languageSpace.innerHTML+= "Return Value Type:<br>";
                languageSpace.innerHTML+= whichArray[i].type + "<br><hr>";

                //KEEP Delete Button, Implement later with Array splice
                //languageSpace.innerHTML += '<hr><button
onclick="deleteThisRecord(\"+languageSpace.id+'\');"
class="ourButton">Delete</button><br><hr>';

                document.body.append(functionCategory);
                document.body.append(languageSpace);
            }
        }
    }

    function deleteThisRecord(whichDiv)
    {
          let warningDelete = confirm("DELETE ONLY This Record?");

          if (warningDelete == true)
          {
         document.getElementById(whichDiv).outerHTML = "";
          }
          else if(warningDelete == false)
          {
                alert("Canceled");
                return;
        }
        //For the moment, we are using an empty outerHTML to experiment
with the function, but soon we will utilize an array method instead, so that the
array item is deleted from the array and the row is re-created on the screen
minus the item we deleted.
          //whichArray.splice(whichArray,1);
    }

    function printOnlyDiv(whichDiv)
    {
```

```
        let mywindow = window.open('', 'PRINT', 'height=800,width=1000
top=50, left=100');


mywindow.document.write('<style>img{width:75%;</style></head><body>')
;

        mywindow.document.write('<h4>' + document.title  + '</h4>');


mywindow.document.write(document.getElementById(whichDiv).innerHTM
L);

        mywindow.print();
        //mywindow.close();
    }

    function printTextArea(whichTextArea)
    {
        let mywindow = window.open('', 'PRINT', 'height=800,width=1000
top=50, left=100');


mywindow.document.write('<style>img{width:75%;</style></head><body>')
;

        mywindow.document.write('<h4>' + document.title  + '</h4>');


mywindow.document.write(document.getElementById(whichTextArea).value
);

        mywindow.print();
        //mywindow.close();
    }
```

```
    function boxingDetails(theDetails)
    {
       let mywindow = window.open('', 'DETAILS', 'height=300,width=350
top=205, left=250');


mywindow.document.write('<style>img{width:75%;</style></head><body>')
;

        mywindow.document.write('<h4>' + document.title  + '</h4>');


//mywindow.document.write(document.getElementById(whichDiv).innerHT
ML);
        mywindow.document.write(theDetails);
        //mywindow.print();
        //mywindow.close();
    }

    //Wherever the Player is located, put this message upon start
    function startMessage()
    {
       let startingText = document.createElement("div");
       startingText.style.position="absolute";
       startingText.style.left= ourPlayer.x + 190 +'px';
       startingText.style.top= ourPlayer.y - 127 + 'px';
       startingText.style.color="white";
       startingText.style.zIndex="998";
       startingText.style.fontFamily="exo";
       startingText.style.fontWeight="bold";
       startingText.style.fontSize="13pt";
       startingText.style.background="black";
       startingText.style.textAlign="center";
       startingText.style.border = "solid 2px rgba(100,100,255,1.0)";
       startingText.style.width= 400 +'px';
       startingText.style.height= 285 +'px';
```

```
        startingText.style.paddingLeft="20px";
        startingText.style.paddingRight="20px";
        startingText.style.paddingTop="4px";
        startingText.innerHTML+= '<div><hr><span style="color:rgb(255,
255, 255);">College of Scripting Music & Science<br>Dedicated to God the
Father</span><hr><span style="color:rgb(126, 203, 255)">TOPALIAN
GAME ENGINE</span><br><span style="font-family:exo; font-style:italic;
line-height:20px"">W is Up, S is Down, A is Left, D is Right <br>Numbers 1
to 9 Changes Speed<br>0 - + BackSpace Home End for FASTER SPEEDS
<br> N for transparent, M for solid<br>Z for Player Menu<br> Chrome
Browser Loads the FASTEST <br></span><a
href="https://github.com/ChristopherTopalian/TopalianGameEngineDataNavi
gator" target="_blank">Christopher Topalian DataNavigator Code
Here</a><button onclick=removeElement("startingMessage");
class="ourButton">Remove</button></div>';

        startingText.id = "startingMessage";

        //startingText.innerHTML += '<button
onclick=removeElement("startingMessage");
class="ourButton">Remove</button>';

        document.body.append(startingText);
    }

    function gameEngineMessageStays()
    {
        let startingText = document.createElement("div");
        startingText.style.position="absolute";
        startingText.style.left= 100 +'px';
        startingText.style.top= 80 + 'px';
        startingText.style.color="white";
        startingText.style.zIndex="998";
        startingText.style.fontFamily="exo";
        startingText.style.fontWeight="bold";
        startingText.style.fontSize="large";
```

```
        startingText.style.background="black";
        startingText.style.textAlign="center";
        startingText.style.border = "solid 2px rgba(100,100,255,1.0)";
        startingText.style.width= 400 +'px';
        startingText.style.height= 305 +'px';
        startingText.style.paddingLeft="20px";
        startingText.style.paddingRight="20px";
        startingText.style.paddingTop="4px";
        startingText.innerHTML+= '<div><hr><span style="color:rgb(255,
255, 255)">College of Scripting Music & Science<br>Dedicated to God the
Father</span><hr><span style="color:rgb(126, 203, 255)">TOPALIAN
GAME ENGINE</span><br><span style="font-family:exo; font-
style:italic">W is Up, S is Down, A is Left, D is Right <br>Numbers 1 to 9
Changes Speed<br>0 - + BackSpace Home End for FASTER SPEEDS <br>
N for transparent, M for solid<br>Z for Player Menu<br> Chrome Browser
Loads the FASTEST <br></span><a
href="https://github.com/ChristopherTopalian/TopalianGameEngineDataNavi
gator" target="_blank">Christopher Topalian DataNavigator Code
Here</a><hr></div>';
        startingText.id = "gameEngineMessageStays";

        document.body.append(startingText);
    }

    function playerMenu()
    {
        let theMenu = document.createElement("div");
        theMenu.style.position="absolute";
        theMenu.style.left= ourPlayer.x - 285 +'px';
        theMenu.style.top= ourPlayer.y - 127 + 'px';
        theMenu.style.color="white";
        theMenu.style.zIndex="998";
        theMenu.style.fontFamily="exo";
        theMenu.style.fontWeight="bold";
        theMenu.style.fontSize="large";
        theMenu.style.background="black";
```

```
        theMenu.style.textAlign="center";
        theMenu.style.border = "solid 2px rgba(100,100,255,1.0)";
        theMenu.style.width= 400 +'px';
        theMenu.style.height= 195 +'px';
        theMenu.style.paddingLeft="20px";
        theMenu.style.paddingRight="20px";
        theMenu.style.paddingTop="4px";
        theMenu.innerHTML+= '<div><hr><span style="color:rgb(255, 255,
255)">MENU OPTIONS</span><hr><span style="color:rgb(126, 203,
255;font-family:exo; font-style:italic">SECTIONS<br></span><button
onclick="scrollToSection(\'javascript\');"
class=\'ourButton\'>JAVASCRIPT</button><button
onclick="scrollToSection(\'electronics\');"
class=\'ourButton\'>ELECTRONICS</button><button
onclick="scrollToSection(\'inventions\');"
class=\'ourButton\'>INVENTIONS</button><button
onclick="scrollToSection(\'boxing\');"
class=\'ourButton\'>BOXING</button><button
onclick="scrollToSection(\'news\');"
class=\'ourButton\'>NEWS</button><hr></div>';

        theMenu.id = "playerMenu";

        //theMenu.innerHTML += '<button
onclick=removeElement(\"+theMenu.id+'\');
class="ourButton">Remove</button>';

        theMenu.innerHTML += '<button
onclick=removeElement("playerMenu");
class="ourButton">Remove</button>';

        document.body.append(theMenu);
    }

    //Send Player to New Location Based On Choice from playerMenu
    function scrollToSection(theSection)
```

```
{
   if (theSection=="boxing")
   {
      ourPlayer.x = 100;
      ourPlayer.y = 37222;
      //Boxing Section locations will be in an array soon. For now, we use
the values, but note, when new rows are added, it requires new values for the
whole section section.

      removeElement("playerMenu"); //remove menu, choice was made
      removeElement("playerMenu"); //fix in progress
   }
   if (theSection=="javascript")
   {
      ourPlayer.x = 331;
      ourPlayer.y = 16925; //Javascript Section

      removeElement("playerMenu"); //remove menu, choice was made
      removeElement("playerMenu");
   }
   if (theSection=="electronics")
   {
      ourPlayer.x = 392;
      ourPlayer.y = 9703; //Electronics Section

      removeElement("playerMenu"); //remove menu, choice was made
      removeElement("playerMenu");
   }
   if (theSection=="inventions")
   {
      ourPlayer.x = 406;
      ourPlayer.y = 11504; //Inventions Section

      removeElement("playerMenu"); //remove menu, choice was made
      removeElement("playerMenu");
   }
```

```
        if (theSection=="news")
        {
            ourPlayer.x = 282;
            ourPlayer.y = 585; //Inventions Section

            removeElement("playerMenu"); //remove menu, choice was made
            removeElement("playerMenu");
        }
    }

    function removeElement(theElement)
    {
        if(theElement)
        {
            document.getElementById(theElement).remove();
        }
    }

    //We are using this SORT FUNCTION BELOW to sort many of the
arrays!
    //But, you can also use the spreadsheet tools to sort the data.
    //Either way is fine.
    //For Ascending order use a.date - b.date
    //For Descending order use b.date - a.date
    function sortIt()
    {
        ////Sort By Date//// ASCENDING means a.date - b.date
        theNews.sort(function(a,b){return new Date(a.date) - new
Date(b.date);});

        ////Sort By Date//// DESCENDING means b.date - a.date
        //theNews.sort(function(a,b){return new Date(b.date) - new
Date(a.date);});

        ////Sort By Date//// ASCENDING
```

```
        evidence.sort(function(a,b){return new Date(a.date) - new
Date(b.date);});

        ////Sort By Date//// ASCENDING
        videoEvidence.sort(function(a,b){return new Date(a.date) - new
Date(b.date);});

        ////Sort By Date//// ASCENDING
        //socialMediaEvidence.sort(function(a,b){return new Date(a.date) -
new Date(b.date);});

        ////Sort By Date//// DESCENDING
        boxingVideos.sort(function(a,b){return new Date(b.date) - new
Date(a.date);});

        //////Sort By Date//// ASCENDING
        //collegeVideos.sort(function(a,b){return new Date(a.date) - new
Date(b.date);});

        //////Sort By Date//// DESCENDING by using b.date - a.date
        collegeVideos.sort(function(a,b){return new Date(b.date) - new
Date(a.date);});

        ////Sort By Date//// ASCENDING
        ourVideoFiles.sort(function(a,b){return new Date(a.date) - new
Date(b.date);});

        ////Sort by Multiple Criteria, category and name////
        javascriptLanguage.sort(function(a, b)
        {
           return a.category.localeCompare(b.category) || b.name - a.name;
        });

        ////Sort by Multiple Criteria, category and name////
        lindenLanguage.sort(function(a, b)
        {
```

```
            return a.category.localeCompare(b.category) || b.name - a.name;
        });

        ////Sort by one number only, number////
        theNotes.sort(function(a, b)
        {
            return a.number.localeCompare(b.number, 'en-US',
{numeric:"true"}); //|| b.note - a.note;
        });

        ////Sort by one number only, probability////
        socialMediaEvidence.sort(function(a, b)
        {
            return a.probability.localeCompare(b.probability, 'en-US',
{numeric:"true"}); //|| b.title - a.title;
        });

        //To sort by additional criteria, just use another ||

        ////Sort By Date//// ASCENDING
        scienceImages.sort(function(a,b){return new Date(a.date) - new
Date(b.date);});
    }

    /* The Keyboard Letter Codes that are Being Pressed */
    let keyboard = {};
        keyboard.UP = 87;    //87 is w, 38 is up arrow
        keyboard.DOWN = 83;  //83 is s, 40 is down arrow
        keyboard.LEFT = 65;  //65 is a, 37 is left arrow
        keyboard.RIGHT = 68; //68 is d, 39 is right arrow

    /* Player's start position and id */
    let ourPlayer = {
        x: 420,
        y: 16485,
        speedMultiplier: 14,
```

```
    playerId: document.getElementById("thePlayer")
};
//37610 //8165 //37190 //4536 //29821 // 17830 //7354 //14508

//Key Press Detection
//document.body.onkeyup =
//document.body.onkeydown = function(e){

function theControls(e)
{
    if(e.keyCode == 90) //Letter z
    {
        playerMenu(); //open player menu of locations
    }
    if(e.keyCode == 77) //Letter m
    {
        ourPlayer.playerId.style.opacity="1.0";
    }
    if(e.keyCode == 78) //Letter n
    {
        ourPlayer.playerId.style.opacity="0.2";
        ourPlayer.playerId.innerHTML= "";
    }
    if(e.keyCode == 192) //tilda
    {
        ourPlayer.speedMultiplier=1;
        ourPlayer.playerId.innerHTML="Speed 1";
    }
    if(e.keyCode == 49 || e.keyCode == 97) //number 1, or numpad 1
    {
        ourPlayer.speedMultiplier=2;
        ourPlayer.playerId.innerHTML="Speed 2";
    }
    if(e.keyCode == 50 || e.keyCode == 98) //number 2
    {
        ourPlayer.speedMultiplier=3;
```

```
    ourPlayer.playerId.innerHTML="Speed 3";
}
if(e.keyCode == 51 || e.keyCode == 99) //number 3
{
    ourPlayer.speedMultiplier=4;
    ourPlayer.playerId.innerHTML="Speed 4";
}
if(e.keyCode == 52 || e.keyCode == 100) //number 4
{
    ourPlayer.speedMultiplier=5;
    ourPlayer.playerId.innerHTML="Speed 5";
}
if(e.keyCode == 53 || e.keyCode == 101) //number 5
{
    ourPlayer.speedMultiplier=10;
    ourPlayer.playerId.innerHTML="Speed 10";
}
if(e.keyCode == 54  || e.keyCode == 102) //number 6
{
    ourPlayer.speedMultiplier=15;
    ourPlayer.playerId.innerHTML="Speed 15";
}
if(e.keyCode == 55 || e.keyCode == 103) //number 7
{
    ourPlayer.speedMultiplier=20;
    ourPlayer.playerId.innerHTML="Speed 20";
}
if(e.keyCode == 56 || e.keyCode == 104) //number 8
{
    ourPlayer.speedMultiplier=25;
    ourPlayer.playerId.innerHTML="Speed 25";
}
if(e.keyCode == 57 || e.keyCode == 105) //number 9
{
    ourPlayer.speedMultiplier=30;
    ourPlayer.playerId.innerHTML="Speed 30";
```

```
    }
    if(e.keyCode == 48 || e.keyCode == 96) //number 0
    {
       ourPlayer.speedMultiplier=50;
       ourPlayer.playerId.innerHTML="Speed 50";
    }
    if(e.keyCode == 189) //dash
    {
       ourPlayer.speedMultiplier=100;
       ourPlayer.playerId.innerHTML="Speed 100";
    }
    if(e.keyCode == 187) //+
    {
       ourPlayer.speedMultiplier=200;
       ourPlayer.playerId.innerHTML="Speed 200";
    }
    if(e.keyCode == 8) //back space button
    {
       ourPlayer.speedMultiplier=400;
       ourPlayer.playerId.innerHTML="Speed 400";
    }
    if(e.keyCode == 36) //Home Button
    {
       ourPlayer.speedMultiplier=800;
       ourPlayer.playerId.innerHTML="Speed 800";
    }
    if(e.keyCode == 35) //End Button
    {
       ourPlayer.speedMultiplier=1600;
       ourPlayer.playerId.innerHTML="Speed 1600";
    }

    //Find out which key was pressed
    let theKeyCode = e.keyCode || e.which;
    keyboard[theKeyCode] = e.type == 'keydown';
};
```

```
/* Character Movement Updating */
let movePlayer = function(theX, theY){
  ourPlayer.x += (theX||0) * ourPlayer.speedMultiplier;
  ourPlayer.y += (theY||0) * ourPlayer.speedMultiplier;

  ourPlayer.playerId.style.left = ourPlayer.x + 'px';
  ourPlayer.playerId.style.top = ourPlayer.y + 'px';
};

/* Player Controls */
let playerMotion = function(){
   if(keyboard[keyboard.LEFT]){
      movePlayer(-1,0);
     // ourPlayer.playerId.style.backgroundPosition=-2;
      //Note: need to simplify for logical backgroundPosition coordinates.
   }
   if(keyboard[keyboard.RIGHT]){
      movePlayer(1,0);
     // ourPlayer.playerId.style.backgroundPosition=302;
   }
   if(keyboard[keyboard.UP]){
      movePlayer(0,-1);
     // ourPlayer.playerId.style.backgroundPosition=97;
   }
   if(keyboard[keyboard.DOWN]){
      movePlayer(0,1);
      //ourPlayer.playerId.style.backgroundPosition=625;
   }
};

function getAllInfo(theId)
{
   theId = document.getElementById(theId);
   let theRect = theId.getBoundingClientRect();
   return theRect;
```

```
}
//console.log(JSON.stringify(getAllInfo('boxOne')));

function getPos(theId)
{
   theId = document.getElementById(theId);
   let theRect = theId.getBoundingClientRect();
   let theRectY = theId.getBoundingClientRect().top + window.scrollY;

   let posXY = {
      x:parseInt(theRect.x) + parseInt(theRect.width)/2 + window.scrollX,
      y:parseInt(theRectY) + parseInt(theRect.height)/2
   };
   return posXY;
}

//Camera Follows the Player
function scrollIt()
{
  ourPlayer.playerId.scrollIntoView({block: "center", inline: "center"});
}

//Get Size of the id
function getSize(theId)
{
   theId = document.getElementById(theId);
   let theRect = theId.getBoundingClientRect();

   let sizeXY = {
      x: parseInt(theRect.width),
      y: parseInt(theRect.height)
   };
   return sizeXY;
}

// Position and Size Objects according to if condition
```

```
// not used in this tutorial
function posSizeObject(whichArray)
{
   for(let i = 0; i < whichArray.length; i++)
   {
       if(whichArray[i].kind == "box" || whichArray[i].kind =="tile")
       {
           let d = document.getElementById(whichArray[i].id);
           d.style.position = "absolute";
           d.style.left = whichArray[i].xPos +'px';
           d.style.top = whichArray[i].yPos +'px';
           d.style.width = whichArray[i].width +'px';
           d.style.height = whichArray[i].height +'px';
       }
   }
}

////Get the Position of the mouse arrow////
function mousePos(theEvent)
{
   let mouseX = theEvent.pageX;
   let mouseY = theEvent.pageY;
   let mousePos = "Mouse" + "<br>" + "X " + mouseX + "<br>"+ "Y " +
mouseY;
       console.log(mousePos);
   ourPlayer.playerId.innerHTML= mousePos;
}

function makeLine(theYPos, sector, ourMessage)
{
   let makeLine = document.createElement("div");
   makeLine.style.position="absolute";
   makeLine.style.left= 0 +'px';
   makeLine.style.top= theYPos + 'px';
   makeLine.style.color="white";
   makeLine.style.zIndex="10";
```

```
        makeLine.style.fontFamily="exo";
        makeLine.style.fontWeight="bold";
        makeLine.style.fontSize="large";
        makeLine.style.background="black";
        makeLine.style.textAlign="center";
        makeLine.style.border = "solid 2px rgba(100,100,255,1.0)";
        makeLine.style.width= 1000 +'px';
        makeLine.style.height= 25 +'px';
        makeLine.style.paddingLeft="20px";
        makeLine.style.paddingRight="20px";
        makeLine.style.paddingTop="4px";
        makeLine.innerHTML= ourMessage;
        makeLine.id = "sector" + sector;

        document.body.append(makeLine);
    }

let yPos= 500; //Content starts at y Position of 500
//Content is Positioned in Rows Based on the Functions Place in the Array
function contentContainer()
{
   let contentArray =
   [
      function(){ newsRow(100, yPos, 800, 250, theNews, "news")},
      //theX, theY, sizeX, sizeY,whichArray, criteria1

      function(){ evidenceRow(100,yPos,700,300, evidence, "fact")},
      //theX, theY, sizeX, sizeY,whichArray, criteria1

      function(){ socialMediaEvidenceRow(100, yPos, 700, 500,
socialMediaEvidence, "twitter")},
      //theX, theY, sizeX, sizeY,whichArray, criteria1

      function(){ detailsRow(100, yPos, 700, 500, socialMediaEvidence,
"twitter")},
      //theX, theY, sizeX, sizeY, whichArray, criteria1
```

```
        function(){ evidenceWithImageRow(100,yPos,1250,600, evidence,
"fact")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1

        function(){ makeWebsitesOrVideos(100,yPos,700,500, videoEvidence,
"youtubeVideo")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1

        function(){ makeVideos(100, yPos, 800, 600, videoEvidence,
"exercise")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1

        function(){ makeVideos(100, yPos, 800, 600, videoEvidence, "mask")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1

        function(){ makeVideosOnlineStartEnd(100, yPos, 800, 600,
videoEvidence, "youtubeVideo", "exercise")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

        ////////TECH
        function(){ makeVideosMultiFilters(100, yPos, 800, 600,
collegeVideos,"youtubeVideo", "javascript")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

        function(){ makeVideosMultiFilters(100, yPos, 800, 600,
collegeVideos,"youtubeVideo", "papercliptronics")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

        function(){ makeVideosMultiFilters(100, yPos, 800, 600,
collegeVideos,"youtubeVideo", "breadboard")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

        function(){ makeVideosOnlineStartEnd(100, yPos, 600, 500, techVideos,
"youtubeVideo", "electric motor")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2
```

```
    function(){ makeVideosOnlineStartEnd(100, yPos, 600, 500, techVideos,
"youtubeVideo", "water pump")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){  makeVideosOnlineStartEnd(100, yPos, 600, 500,
techVideos, "youtubeVideo", "air pump")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){  makeVideosOnlineStartEnd(100, yPos, 600, 500,
techVideos, "youtubeVideo", "microphone")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ scienceImagesAndLink(100, yPos, 600, 600, scienceImages,
"electricity", "electron flow")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    //LANGUAGE
    function(){ languageRowEASY(100, yPos, 400, 500, lindenLanguage,
"in progress", "function")},
    //whichArray, theX, theY, sizeX, sizeY, criteria

    function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "array", "function")},
    //whichArray, theX, theY, sizeX, sizeY, criteria

    function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "string", "function")},
    //whichArray, theX, theY, sizeX, sizeY, criteria

    function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "math", "function")},
    //whichArray, theX, theY, sizeX, sizeY, criteria

    function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "date", "function")},
```

```
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "boolean", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "global", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "number", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "regular expression", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "classes", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "error", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "json", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "console", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "history", "function")},
```

```
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "storage", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "geolocation", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        function(){ languageRowEASY(100, yPos, 400, 500,
javascriptLanguage, "string", "function")},
        //whichArray, theX, theY, sizeX, sizeY, criteria

        //COLLEGE
        function(){ collegeBooksRow(100, yPos, 400, 400, collegeBooks)},
        //theX, theY, sizeX, sizeY, whichArray

        function(){ collegeLinksRow(100, yPos, 300, 50, collegeLinks)},
        //theX, theY, sizeX, sizeY, whichArray

        //PERSONAL
        function(){  makeVideosUsingVideoFile(100, yPos, 790, 445,
ourVideoFiles,"personal", "personal")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2)

        function(){ notesRow(100, yPos, 400, 400, theNotes, "note")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1

        function(){ notesWithTextAreaRow(100, yPos, 600, 500, theNotes,
"note")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1

        //BOXING
        function(){  makeVideosMultiFilters(100, yPos, 800, 600,
boxingVideos,"boxing", "furyWilder1")},
```

```
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

        function(){ makeVideosMultiFilters(100, yPos, 800, 600, boxingVideos,
"boxing", "furyWilder2")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2
    ];

    for (i = 0; i < contentArray.length; i++)
    {
        contentArray[i]();
        yPos = yPos + 900;
    }
    //contentArray[0]();

    //spacer sector 1 line
    makeLine(yPos, 1, "Cross this Line to ADD Boxing Content");
}

function boxingContainer()
{
    let boxingContentArray =
    [
        //SHOW ALL VIDEOS of array bdaBoxingComments.
        function(){ makeVideosOnlineStartEndTIMECODEShowAll(100, yPos,
800, 600, bdaBoxingComments, "youtubeVideo")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1

        //Show Selected Videos of array bdaBoxingComments
        function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Bucho", "size excuse")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

        function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "BDA", "size excuse")},
        //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2
```

```
    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Recognize", "size excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Bucho", "shoulder excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "BDA", "shoulder excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Recognize", "shoulder excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Gonzalo", "shoulder excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Bucho", "judges excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "BDA", "judges excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Recognize", "judges excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Precise", "judges excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2
```

```
    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Recognize", "promoter excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Apology", "compubox excuse")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "BDA", "funny")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Bucho", "funny")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Recognize", "funny")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Pete", "funny")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Precise", "funny")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "BDA", "attacks person")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Bucho", "attacks person")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2
```

```
    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Recognize", "attacks person")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Apology", "attacks person")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Dee", "attacks person")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Precise", "attacks person")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Bucho", "mockery")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Recognize", "mockery")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Dee", "mockery")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Pete", "mockery")},
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2

    function(){ makeVideosOnlineStartEndTIMECODE(100, yPos, 800,
600, bdaBoxingComments, "Precise", "low blow excuse")}
    //theX, theY, sizeX, sizeY, whichArray, criteria1, criteria2
  ];
```

```
    for (i = 0; i < boxingContentArray.length; i++)
    {
        boxingContentArray[i]();
        yPos = yPos + 900;
    }
}

        //// When the Page Loads ////
        function whenLoaded()
        {
            playerMenu();

            sortIt(); //sorts the arrays

            contentContainer(); //loads starting content to the page

            gameEngineMessageStays(); //opens message at yPos 100

            startMessage();          //opens message near player

            //console.log(yPos);

            window.addEventListener("click", mousePos, false);
            window.addEventListener("keydown", theControls, false);
            window.addEventListener("keyup", theControls, false);
        }

        //Load Content based on the player's position.
        let sector1 = 0;
        function wasLineCrossed()
        {
            //player speed can be Extremely fast, so we allow large range of Y
value to be able to trigger the event
            if(sector1==0)
            {
```

```
            if(Math.floor(getPos("thePlayer").y) > yPos &&
Math.floor(getPos("thePlayer").y) < yPos+40)
            {
               ourPlayer.playerId.innerHTML = yPos + " Crossed";
               boxingContainer(); //loads the boxing content
               removeElement("sector1"); //removes the line
               sector1=1; //only allow content to be added one time
            }
         }
      }

      function doThisLoop()
      {
         playerMotion();
         scrollIt();
         wasLineCrossed();
         requestAnimationFrame(doThisLoop);
      }
      doThisLoop();

      //Update the Position of the player
      movePlayer();

</script>
</body>
</html>
```

CODE TopalianData.js

```
//Dedicated to God the Father
//All Rights Reserved Christopher Topalian Copyright 2020
//THIS IS THE DATA (CONTENT) that we are using for the Topalian Game Engine Data Navigator

//This File is Saved as TopalianData.js

//Make sure that you only use Straight Single Quotes in the titles, names, headlines, etc!
//Make sure there are NO Double Quotes in titles,names,headlines, etc.
//Also make sure there are NO Curly Quotes, neither single or double

//Remember, it is the Straight Double Quotes that contain the strings, so we cannot use double quotes in the titles, or else they would end the strings before we wanted the strings to be ended!

//To play an embedded video with a Start and End Time
    //add this to the end of the url  ?start=5&end=125
    //for example
    //https://www.youtube.com/embed/YOVpxpQhJB4?start=5&end=268
    //or
    //you can choose to set only the start time   ?start=5
    //for example
    //https://www.youtube.com/embed/YOVpxpQhJB4?start=5
    //or
    //you can choose to set only the end time   ?end=5
    //for example
    //https://www.youtube.com/embed/YOVpxpQhJB4?end=5

let scienceImages =
[
```

```
  {  title:"Electricity is the flow of electrons around a circuit",
     date:"10/07/2020 12:00 AM",

url:"http://ffden-2.phys.uaf.edu/webproj/211_fall_2016/Sterling_Stasak/
Sterling_Stasak/Physics%20of%20Electricity.html",
     image:"https://cdn4.explainthatstuff.com/electronflow.png",
     info:"website",  tag:"electricity",description:"electron flow"},

{    title:"What is Electric Current? Definition & Direction of flow of
current",  date:"08/01/2018 12:00 AM",
     url:"https://www.youtube.com/watch?v=kAL17fHlv4U",
     image:"https://i.ytimg.com/vi/kAL17fHlv4U/maxresdefault.jpg",
     info:"youtubeVideo", tag:"electricity",description:"electron flow"},

{    title:"Current Electricity and Electrical Potential",  date:"09/08/2010
12:00 AM",  url:"http://paulzhang-sph3u.blogspot.com/2010/09/current-
electricity-and-electrical.html",

image:"https://1.bp.blogspot.com/_kJYnXmViRmg/TIl-IlFDpsI/AAAAAAA
AAAQ/fWFfGCZBiXI/s1600/electric+current.jpg",  info:"website",
     tag:"electricity",description:"electron flow"},

{    title:"Electricity Simplified",  date:"01/01/2001 12:00 AM",
     url:"https://docireport.org/2013/08/17/electricity-simplified/",
     image:"https://docireport.files.wordpress.com/2013/08/electron-
flow.jpg",  info:"website",  tag:"electricity",description:"electron flow"},

{    title:"DIY - How to Build a mini electric motor",  date:"07/27/2017
12:00 AM",  url:"https://www.youtube.com/watch?v=Xnc4oLHZ438",
     image:"https://i.ytimg.com/vi/Xnc4oLHZ438/maxresdefault.jpg",
     info:"youtubeVideo", tag:"electricity",description:"electric motor"},

{    title:"Rotation electric motor, easy homemade",  date:"02/04/2013
12:00 AM",  url:"https://www.youtube.com/watch?v=WKklyuzghQg",
     image:"https://i.ytimg.com/vi/WKklyuzghQg/maxresdefault.jpg",
     info:"youtubeVideo", tag:"electricity",description:"electric motor"},
```

```
{       title:"How to make an electric motor homemade",         date:"08/10/2014
12:00 AM",       url:"https://www.youtube.com/watch?v=kkXUmex-fy4",
        image:"https://i.ytimg.com/vi/kkXUmex-fy4/maxresdefault.jpg",
        info:"youtubeVideo", tag:"electricity",description:"electric motor"}
];

let theNews =
[
   { headline:"Bill Gates Met With Jeffrey Epstein Many Times, Despite His
Past", date:"10/12/2019 12:00 AM",
url:"https://www.nytimes.com/2019/10/12/business/jeffrey-epstein-bill-
gates.html", tag:"news", description:"epstein"},

   { headline:"CDC Finds Another 5,000+ NYC Deaths in March and April
With Potential COVID-19 Links", date:"05/11/2020 12:00 AM",
url:"https://www.nbcnewyork.com/news/local/cdc-finds-another-5000-nyc-
deaths-in-march-and-april-with-potential-covid-19-links/2411670/",
tag:"news", description:"pandemic"},

   { headline:"Ghislaine Maxwell was a faithful lapdog’ to Jeffrey Epstein,
wanted to marry him, royal cousin claims", date:"07/06/2020 12:00 AM",
url:"https://www.foxnews.com/entertainment/ghislaine-maxwell-jeffrey-
epstein-christina-oxenberg-prince-andrew", tag:"news",
description:"epstein"},

   { headline:"Twitter cracks down on QAnon, will ban thousands of
accounts", date:"07/21/2020 12:00 AM",
url:"https://fortune.com/2020/07/21/twitter-qanon-accounts-banned-
crackdown/", tag:"news", description:"qanon"}
];

let videoEvidence =
[
```

```
    { title:"Event 201 Pandemic Exercise: Highlights Reel", date:"11/04/2019
12:00 AM", url:"https://www.youtube.com/embed/AoLw-Q8X174?
start=5&end=300", tag:"youtubeVideo", description:"exercise"},

    { title:"Video footage shows massive explosion in Tianjin, China",
date:"08/12/2015 12:00 AM",
url:"https://www.youtube.com/embed/qARRLogg38k", tag:"youtubeVideo",
description:"important"},

    { title:"Najaf , Iraq explosion video", date:"08/06/2020 12:00 AM",
url:"https://www.youtube.com/embed/YARLD34YiAY", tag:"youtubeVideo",
description:"important"}
];

let evidence =
[
    { title:"Wuhan China manufactured Adrenochrome", date:"07/17/2018
12:00 AM", url:"https://www.ncbi.nlm.nih.gov/pcsubstance/?term=
%223B+Scientific+(Wuhan)+Corp%22%5BSourceName%5D+AND+
%22Adrenochrome%22", info:"They have made Adrenochrome in Wuhan
China for a long time.",
image:"https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/
wuhan-adrenochrome-002_orig.png", tag:"fact",
description:"medicalArticle"},

    { title:"Digital Immunity Proof", date:"03/25/2020 12:00 AM",
url:"https://youtu.be/QFlNPE-H3u8", info:"Mass vaccination followed by
Digital Immunity Proof",
image:"https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/bill-
gates-digital-immunity-proof_orig.png", tag:"fact", description:"vaccines"},

    { title:"Bill Clinton visited Jeffrey Epstein's private island, unsealed court
documents suggest", date:"07/31/2020 12:00 AM",
url:"https://www.foxnews.com/us/bill-clinton-visited-jeffrey-epsteins-private-
island-unsealed-court-documents-suggest", info:"Witness stated that Bill
Clinton Visited Jeffrey Epsteins island",
```

```
image:"https://pbs.twimg.com/media/EeN7Qo5X0AAhLyJ?
format=png&name=900x900", tag:"fact", description:"epstein"}
];

let socialMediaEvidence =
[
   { title:"Bill Clinton reported by witness to be present with Epstein on
Epstein island.", date:"07/31/2020 02:05 AM",
url:"https://twitter.com/ISCResearch/status/1289079824439554048",
info:"Witness Testimony",
image:"https://pbs.twimg.com/media/EeO7QzFXoAA8Jlo?
format=jpg&name=900x900", tag:"twitter", description:"epstein",
probability:"98"},

   { title:"When did Donald Trump flirt with you? He didnt.",
date:"07/31/2020 02:12 AM",
url:"https://twitter.com/ISCResearch/status/1289081444686614528",
info:"testimony",
image:"https://pbs.twimg.com/media/EeO8vRRWoAAI9MO?
format=jpg&name=small", tag:"twitter", description:"epstein",
probability:"97"},

   { title:"MIT Technology Review @techreview", date:"07/31/2020 02:55
PM", url:"https://twitter.com/techreview/status/1289273594761994241",
info:"The pandemic has rapidly grown the presence of QAnon and the spread
of its conspiracy theories. If we stand any hope of stopping it, online
platforms must do much more than fact checks and account bans.",
image:"https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/
mit_orig.jpg", tag:"twitter", description:"censorship", probability:"99"}
];

let theNotes =
[
   { note:"Here is a simple Note.", date:"08/22/1998 12:00 AM", number:"1",
tag:"note"},
```

```
    { note:"Here is the second note.", date:"02/29/2018 12:00 AM",
number:"2", tag:"note"},

    { note:"Here is the third note.", date:"02/29/2020 12:00 AM", number:"3",
tag:"note"},

    { note:"Here is the fourth note.", date:"10/16/2020 10:19 AM", number:"4",
tag:"note"}
];

let javascriptLanguage =
[
    { category:"array", name:"concat()", description:"Join two or more Arrays",
syntax:"array1.concat(array2, array3);", useage:"var combinedArray =
theNotes.concat(theNews, evidence);",
url:"https://www.w3schools.com/jsref/jsref_concat_array.asp", type:"returns
an array object", tag:"function", language:"JavaScript"},

    { category:"array", name:"copyWithin()", description:"Copies array entries
to another position in array and replaces the existing",
syntax:"array.copyWithin(target, start, end);", useage:"theNotes.copyWithin(2,
0, 2);", url:"https://www.w3schools.com/jsref/jsref_copywithin.asp",
type:"returns an array", tag:"function", language:"JavaScript"},

    { category:"array", name:"entries()", description:"In Progress", syntax:"In
Progress", useage:"In Progress",
url:"https://www.w3schools.com/jsref/jsref_entries.asp", type:"In Progress",
tag:"function", language:"JavaScript"}
];

let lindenLanguage =
[
    { name:"llAbs", description:"Tells you the absolute value of any integer
number", syntax:"llAbs(integer number);", useage:"llAbs(-3);",
url:"https://wiki.secondlife.com/wiki/LlAbs", type:"returns an integer",
tag:"function", category:"math", language:"Linden"},
```

```
    { name:"llAcos", description:"Tells you the ArcCosine of a number",
syntax:"llAcos(float number);", useage:"llAcos(0.7);",
url:"https://wiki.secondlife.com/wiki/LlAcos", type:"returns a float, in
radians", tag:"function", category:"math", language:"Linden"}
];

let boxingVideos =
[
{ title:"Tyson Fury HOLDING WHILE HITTING", date:"03/11/2020 12:00
AM", url:"https://www.youtube.com/embed/vJ7x7Iq7b0U", tag:"boxing",
description:"furyWilder2"},

{ title:"Tyson Fury BEHIND THE HEAD 2", date:"03/11/2020 12:00 AM",
url:"https://www.youtube.com/embed/G5A6zvTt3Uw", tag:"boxing",
description:"furyWilder2"},

{ title:"Tyson Fury BEHIND THE HEAD 3, HOLDING WHILE HITTING
2", date:"03/12/2020 12:00 AM",
url:"https://www.youtube.com/embed/pvph9__goiI", tag:"boxing",
description:"furyWilder2"}
];

let collegeVideos =
[
    { title:"Not Freezing Detector Circuit on a Breadboard", date:"09/25/2020
12:00 AM", url:"https://www.youtube.com/embed/wbN4MG-J_R4",
tag:"youtubeVideo", description:"breadboard"},

    { title:"Heat Detector Circuit on a Breadboard", date:"09/26/2020 12:00
AM", url:"https://www.youtube.com/embed/kQ_mVFj1u-Y",
tag:"youtubeVideo", description:"breadboard"},

    { title:"Make Video Games from Spreadsheet Data!", date:"08/16/2020
12:00 AM", url:"https://www.youtube.com/embed/Q4tPG-cwiWE",
tag:"youtubeVideo", description:"javascript"}
```

```
];

let collegeLinks =
[
   { name:"Javascript",
url:"https://collegeofscripting.weebly.com/javascript.html", },

   { name:"JavaScript Bookmarklets",
url:"https://collegeofscripting.weebly.com/bookmarklets.html", },

   { name:"LSL Scripting Book",
url:"https://collegeofscripting.weebly.com/lsl-scripting-book.html", }
];

let collegeBooks =
[
   { name:"Papercliptronics",
image:"https://m.media-amazon.com/images/I/51cdZyRYXVL._SX260_.jpg",
url:"https://www.amazon.com/Papercliptronics-Homemade-Electronic-
Circuits-Paperclips/dp/1658209303/ref=sr_1_2?
keywords=papercliptronics&qid=1582048776&sr=8-2"},

   { name:"LSL Book",
image:"https://images-na.ssl-images-amazon.com/images/I/41YE35agtNL._S
Y498_BO1,204,203,200_.jpg", url:"https://www.amazon.com/LSL-Scripting-
Book-Computer-Programming/dp/B084DG7ZFD/ref=sr_1_fkmr0_1?
keywords=lsl+scripting&qid=1582049598&sr=8-1-fkmr0"},

   { name:"Topalian Game Engine Data Navigator", image:"https://m.media-
amazon.com/images/I/41kybfYNoYL.jpg",
url:"https://www.amazon.com/dp/B08JK7D67L"},

   { name:"JavaScript Bookmarklet Advanced Programming",
image:"https://images-na.ssl-images-amazon.com/images/I/51lot64KYcL._SX
384_BO1,204,203,200_.jpg", url:"https://www.amazon.com/JavaScript-
Bookmarklet-Advanced-Programming-Interfaces/dp/B088JFN2BL"},
```

```
    { name:"JavaScript Video Investigator", image:"https://m.media-
amazon.com/images/I/51EeQ4sNVnL._SY346_.jpg",
url:"https://www.amazon.com/CREATING-JAVASCRIPT-APPLICATIONS-
Video-Investigator/dp/B088N5G5GV"},

    { name:"JavaScript Missing Persons Database", image:"https://m.media-
amazon.com/images/I/519eyD-37lL.jpg",
url:"https://www.amazon.com/CREATING-JAVASCRIPT-APPLICATIONS-
Missing-Database/dp/B088N4XYDY"},

    { name:"True Artificial Intelligence", image:"https://m.media-
amazon.com/images/I/414nBuW6oaL._SY346_.jpg",
url:"https://www.amazon.com/dp/B08975HFJK"},

    { name:"Real Logic", image:"https://m.media-amazon.com/images/I/414T-
Y2usWL.jpg", url:"https://www.amazon.com/Real-Logic-Evidence-
Foundation-Reason-ebook/dp/B08JQPZT6H/"},

    { name:"Mind Simulation Science",
image:"https://m.media-amazon.com/images/I/41cfXtacGvL.jpg",
url:"https://www.amazon.com/Mind-Simulation-Science-Foundation-
Intelligence-ebook/dp/B08K7L9F3Q"},

    { name:"Human Safety Manual",
image:"https://m.media-amazon.com/images/I/51RzxUVo7FL.jpg",
url:"https://www.amazon.com/Human-Safety-Manual-Christopher-Topalian-
ebook/dp/B08B515RPL"}
];

let ourVideoFiles =
[
    { title:"Central Records Complex Opens to House FBI Files", type:"mp4",
date:"08/14/2020 12:00 AM", url:"https://www.youtube.com/watch?
v=WsOFxqB3U3A",
url2:"https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/
```

```
central_records_complex_opens_to_house_fbi_files.mp4", tag:"personal",
description:"personal", starttime:"00:00:05", endtime:"00:00:10",
kind:"video"},

    { title:"FBI Special Agents Your Expertise Fits", type:"mp4",
date:"03/10/2020 12:00 AM", url:"https://www.youtube.com/watch?
v=8C973Mi8caQ",
url2:"https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/
fbi_special_agents_your_expertise_fits.mp4", tag:"personal",
description:"personal", starttime:"00:00:11", endtime:"00:00:17",
kind:"video"},

    { title:"Video Simulation Team", type:"mp4", date:"04/26/2011 12:00 AM",
url:"https://www.youtube.com/watch?v=84bIBZFFVYk",
url2:"https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/
video_simulation_team.mp4", tag:"personal", description:"personal",
starttime:"00:00:00", endtime:"00:00:20", kind:"video"},
];

let techVideos =
[
{ title:"How To Make a Water Pump From DC Motor at Home | DC Motor
Ideas", date:"03/31/2020 12:00 AM",
url:"https://www.youtube.com/embed/qnhReMd7dAk", tag:"youtubeVideo",
description:"water pump"},

{ title:"Simple Homemade DIY Water PUMP", date:"09/22/2020 12:00 AM",
url:"https://www.youtube.com/embed/9fwo_VEMKos", tag:"youtubeVideo",
description:"water pump"},

{ title:"How To Make Water Pump 12V At
Home/Centrifugal/WaterProof/PROPELLER BIG 60mm/775/288W/V14",
date:"08/11/2020 12:00 AM", url:"https://www.youtube.com/embed/JS828t-
63HI", tag:"youtubeVideo", description:"water pump"}
];
```

```
let bdaBoxingComments =
[
{       title:"Lomachenko fans making excuses like the LDBC/Wilder
fanboys?", date:"10/21/2020 12:00 AM",
        url:"https://www.youtube.com/embed/JZpvDUeUU24",
        tag:"youtubeVideo",   startTime:"00:04:20", endTime:"00:05:20",
        description:"shoulder excuse",     words:"BDA cites the shoulder injury
excuse. BDA attempts to excuse the excuse by citing the source of the
report.",     name:"BDA",     },

{       title:"Lomachenko fans making excuses like the LDBC/Wilder
fanboys?", date:"10/21/2020 12:00 AM",
        url:"https://www.youtube.com/embed/JZpvDUeUU24",
        tag:"youtubeVideo",   startTime:"00:04:44", endTime:"00:05:44",
        description:"funny",   words:"Bucho claims that he found NO channels
making excuses for Lomachenko. Bucho name calls any person making
excuses for Lomachenko, as PSYCHOS. Bucho says there are a lot of
PSYCHOS and redefines channels to mean: MAJOR Boxing Channels.",
        name:"Bucho",   },

{       title:"Lomachenko fans making excuses like the LDBC/Wilder
fanboys?", date:"10/21/2020 12:00 AM",
        url:"https://www.youtube.com/embed/JZpvDUeUU24",
        tag:"youtubeVideo",   startTime:"00:06:48", endTime:"00:07:48",
        description:"shoulder excuse",     words:"BDA cites the shoulder injury
excuse. BDA attempts to excuse the excuse by citing the source of the report.
BDA also attempts to excuse the excuse by claiming that the excuse had to be
announced or else Lomachenko HATERS, would call Lomachenko a LIAR,
for not citing the excuse.",  name:"BDA",     }
];
```

CODE TopalianSpreadsheetToJavascript017.html

```
<!-- Dedicated to God the Father -->
<!-- All Rights Reserved Christopher Topalian Copyright 2020 -->

<!-- Topalian Spreadsheet To Javascript -->

<!-- Open this page in your web browser -->
<!-- Paste your spreadsheet data into the text area -->

<!-- Copy the converted text that appears on the screen -->
<!-- Paste the converted text into TopalianData.js -->

<!-- The spreadsheet data we paste is ONE Array of Objects at a time
     which means one spreadsheet at time -->

<!-- For example, we can paste the spreadsheet named theNews into theNews
array of TopalianData.js. Then we would paste the videoEvidence spreadsheet
into the videoEvidence array of TopalianData.js. We update data one
spreadsheet at a time. We do this because each array is different and has
different requirements  -->

<!-- This script makes it very easy to add data to our game/website.
     We add the data to our spreadsheet, which we can sort anyway we want
using the spreadsheet tools. Then we just convert that spreadsheet data to
javascript format using this script here, and we paste the converted data into
our TopalianData.js file, one spreadsheet at a time into one array at a time -->

<!-- If your title or name has a double quote "  change the double quote to a
single quote instead, because we are already using double quotes to contain
each string -->

<!--     CORRECT:  "Earth 'seems' nice"
     NOT CORRECT:  "Earth "seems" nice"
```

as you can see, the double quote useage in the title, would have ended the string before the end of the actual title. -->

```
<html>
<head>
<style>

#pasteDataHere
{
   position:absolute;
   left: 100px;
   top: 120px;
       height: 25%;
       width: 80%;
       box-sizing: border-box;
       background-color: rgb(240,240,240);
       border-radius:6px;
       border:3px solid rgb(0,0,0);
       border-color: black;
       cursor:pointer;
       color:black;
       font-size:14px;
       padding:9px 9px;
       text-decoration:none;
}

#displayData
{
   position:absolute;
   left: 100px;
   top: 290px;
       height: 25%;
       width: 80%;
       box-sizing: border-box;
       background-color: rgb(240,240,240);
```

```
        border-radius:6px;
        border:3px solid rgb(0,0,0);
        border-color: black;
        cursor:pointer;
        color:black;
        font-size:14px;
        padding:9px 9px;
        text-decoration:none;
}

#copyButton
{
    position:absolute;
    left: 200px;
    top: 460px;
    width: 100px;
    background-color: rgb(0, 77, 129);
    font-family: exo black;
    font-size: 26px;
    color: white;
    border-radius: 7px;
}
#copyButton:hover
{
    background-color: rgb(36, 135, 201);
}

#titleText
{
    position:absolute;
    left: 100px;
    top: 20px;
    font-family: exo black;
    font-size: 40px;
    color: white;
}
```

```
#instructions
{
   position:absolute;
   left: 125px;
   top: 75px;
   font-family: tahoma;
   font-size: 26px;
   color: white;
}

body
{
   background: rgb(104, 104, 104);
   background-image:
url("https://collegeofscripting.weebly.com/uploads/6/4/4/8/64482293/stars-
nice_orig.png");
   background-repeat: repeat;
}

</style>
</head>

<body onload="whenLoaded();">

<script>

   function whenLoaded()
   {
     document.getElementById("pasteDataHere").addEventListener("input",
processSpreadsheetData, false);
   }

   function processSpreadsheetData()
   {
      let ourData = document.getElementById("pasteDataHere").value;
```

```
        ourData.trim();

        for (let j = 0; j < ourData.length; j++)
        {
           //ourData = ourData.replace("**", "\"");//replace ** with "
           ourData = ourData.replace(/\"\s/g,'\"'); //trim white space
           ourData = ourData.replace(/\s\"/g,'\"'); //trim white space
        }

        //var test =
document.getElementById("displayData").innerHTML=ourData.split(/},/
g).join('},'+ '<br><br>');
        var test =
document.getElementById("displayData").innerHTML=ourData.split(/},/
g).join('},'+ '\n');
    }

    function copyIt()
    {
        let copyText = document.getElementById("displayData");
        copyText.select();
        copyText.setSelectionRange(0, 1000000);
        document.execCommand("copy");
        alert("Successfully COPIED. \nNow PASTE it in TopalianData.js");
        //alert("Successfully Copied " + copyText.value);
    }

</script>

    <div id="titleText">Topalian Spreadsheet To Javascript Converter</div>
    <div id="instructions">Paste Data Into the Text Area Below</div>

    <textarea id="pasteDataHere" placeholder="Paste Here" rows="4"
cols="50" type="text">
    </textarea>
```

```
    <br>

    <button id="copyButton" onclick="copyIt();">COPY</button>

    <textarea id="displayData"></textarea>
</body>
</html>
```

Dedicated to God the Father

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

We have taught over 2 million people how to program computers for free in a virtual world named Second Life for over a decade.

Feel free to visit the college and learn scripting in a 3d Virtual World.

Remember to check the GitHub for the App's latest Version:
https://github.com/ChristopherTopalian/TopalianGameEngineDataNavigator

and also check the ScriptingCollege Youtube channel for more instruction on how to use the application:
www.youtube.com/ScriptingCollege

HAPPY SCRIPTING!

Always Remember that the more Code that you Write with a Pencil and Paper and Type with your Keyboard, the deeper you will learn computer programming!