

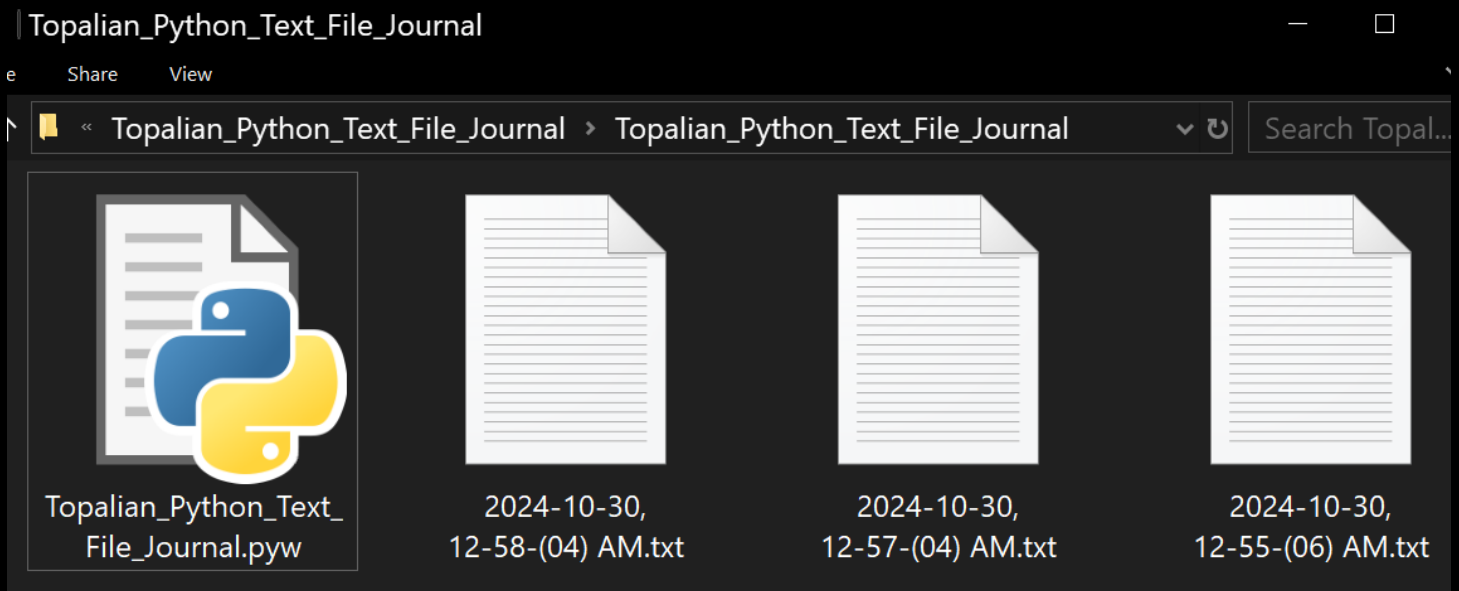
Topalian Python Text File Journal

by

Christopher Andrew Topalian

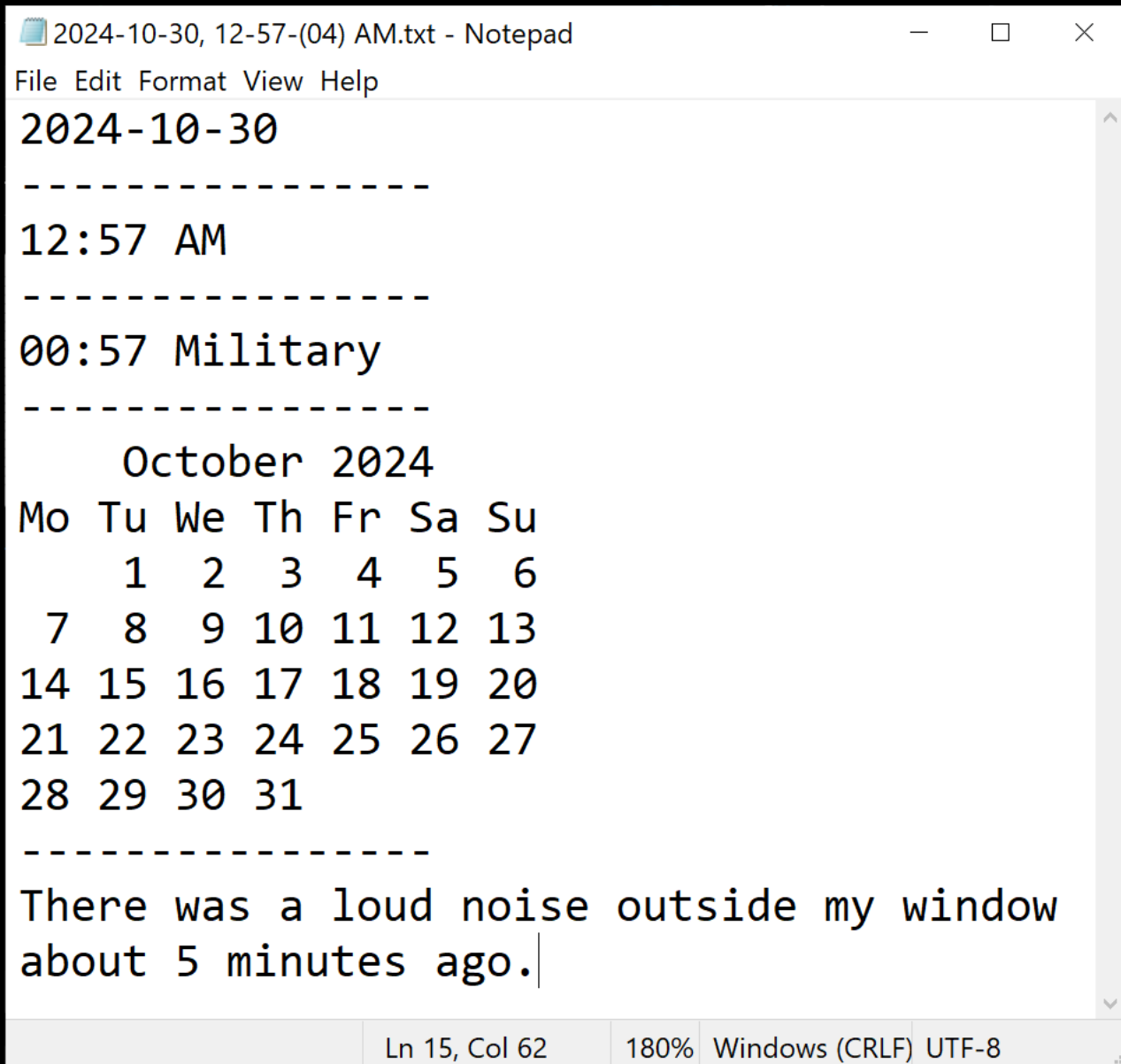
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Dedicated to God the Father



We double click the **Topalian_Python_Text_File_Journal.pyw** file to create a journal entry, which consists of a txt file with date, time in 12 and 24 hour format, and a calendar of that month.

Everytime that we double click the python file, it will create a new txt file Journal Entry.



2024-10-30, 12-57-(04) AM.txt - Notepad

File Edit Format View Help

2024-10-30

12:57 AM

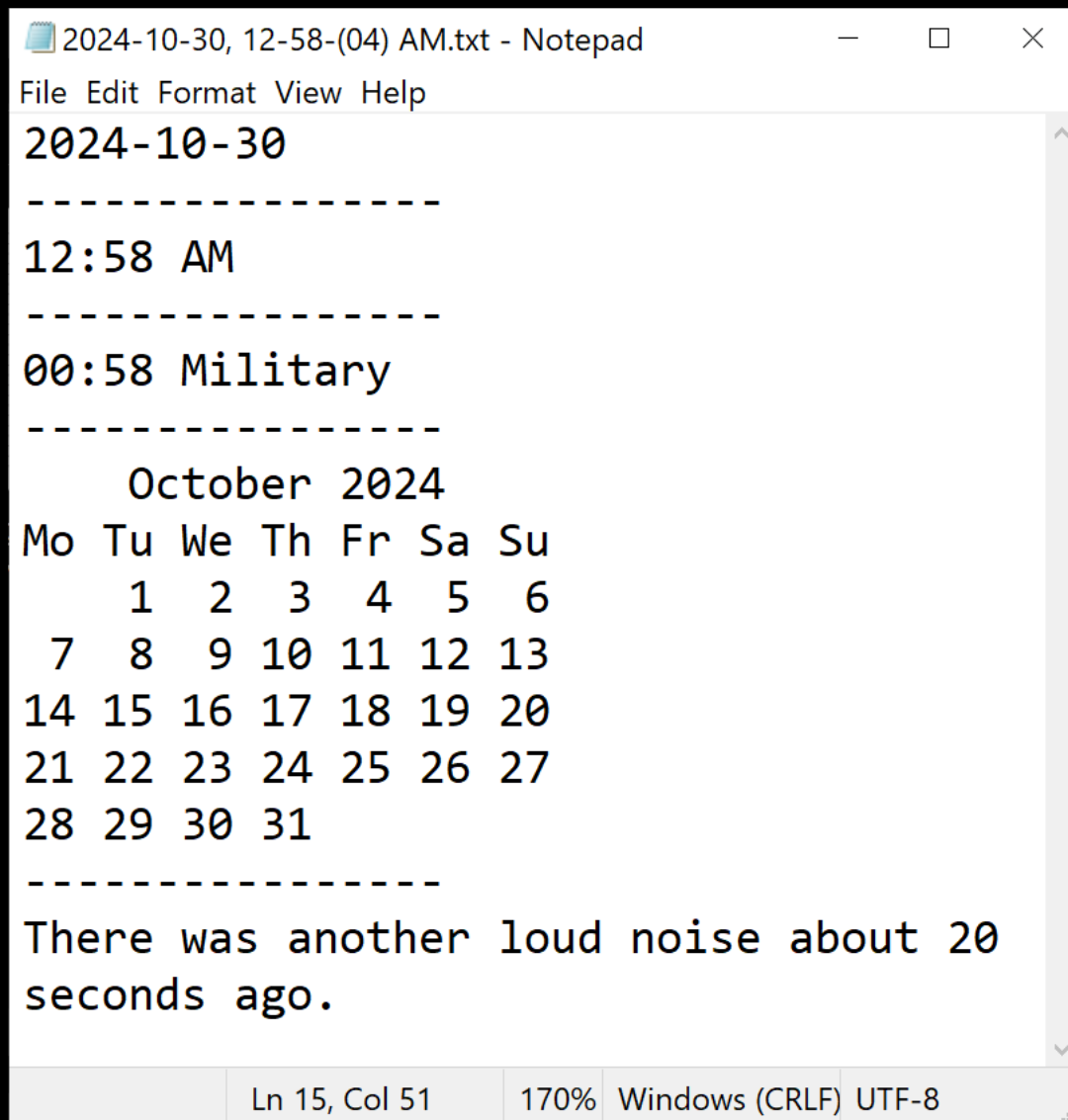
00:57 Military

October 2024

Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

There was a loud noise outside my window
about 5 minutes ago.

Ln 15, Col 62 180% Windows (CRLF) UTF-8



2024-10-30, 12-58-(04) AM.txt - Notepad

File Edit Format View Help

2024-10-30

12:58 AM

00:58 Military

October 2024

Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

There was another loud noise about 20 seconds ago.

Ln 15, Col 51 170% Windows (CRLF) UTF-8

```
# Topalian_Python_Text_File_Journal.pyw
```

```
from datetime import datetime
import calendar
import os
```

```
def makeCalendar(year, month):
    # create a text calendar
    # with Monday as first day of week
    cal =
calendar.TextCalendar(calendar.MONDAY)

    # format specified month as text
    calendarText = cal.formatmonth(year, month)

    return calendarText
```

```
####
```

```
def makeFileWithData():
    # get current date and time
    now = datetime.now()

    # format date YYYY-MM-DD (2024-10-27)
    dateString = now.strftime("%Y-%m-%d")
```

```

# format time AM/PM (02:30 PM)
timeAmPm = now.strftime("%I:%M %p")

# format time military (14:30)
timeMilitary = now.strftime("%H:%M")

timeForTxtName = now.strftime("%I-%M-
(%S) %p")
nameOfFile = dateString + ', ' +
timeForTxtName

# open main output file
with open(nameOfFile + ".txt", "w") as file:
    # write date, time, and calendar
information to file
    file.write(dateString + "\n")
    file.write("-----\n")
    file.write(timeAmPm + "\n")
    file.write("-----\n")
    file.write(timeMilitary + " Military\n")
    file.write("-----\n")
    file.write(makeCalendar(now.year,
now.month))
    file.write("-----")

```

####

makeFileWithData()

####

'''

2024-10-27

02:02 PM

14:02 Military

October 2024

Mo	Tu	We	Th	Fr	Sa	Su
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

'''

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Topalian_Python_Text_File_Journal.pyw

Version 001 - (2024-10-30)

<https://github.com/ChristopherTopalian>

<https://github.com/ChristopherAndrewTopalian>

<https://sites.google.com/view/CollegeOfScripting>

What if we want to Save our Journal Entries in a Specific Folder?

We can make a folder named **text**, and save our text files to this folder.

| Topalian_Python_Text_File_Journal_(Save_to_Specified_Folder)

e Share View

Topalian_Python_Text_File_Journal_(Save_to_Specified_Folder)



text



Topalian_Python_Text_F
ile_Journal_(Save_to_Sp
ecified_Folder).pyw

```
#  
Topalian_Python_Text_File_Journal_(Save_to_  
Specified_Folder).pyw
```

```
from datetime import datetime  
import calendar  
import os
```

```
def makeCalendar(year, month):  
    # create a text calendar  
    # with Monday as first day of week  
    cal =  
calendar.TextCalendar(calendar.MONDAY)  
    # format specified month as text  
    return cal.formatmonth(year, month)
```

```
####
```

```
def makeFileWithData():  
    # get current date and time  
    now = datetime.now()  
  
    # format date and time strings  
    dateString = now.strftime("%Y-%m-%d")  
    timeAmPm = now.strftime("%I:%M %p")
```

```

timeMilitary = now.strftime("%H:%M")
timeForTxtName = now.strftime("%I-%M-
(%S) %p")
nameOfFile = dateString + ' ' +
timeForTxtName

```

```

# create path to text folder
textFolder =
os.path.join(os.path.dirname(__file__), 'text')

```

```

# make sure that text folder exists
os.makedirs(textFolder, exist_ok = True)

```

```

# define full path for file inside text folder
filePath = os.path.join(textFolder,
nameOfFile + ".txt")

```

```

# open main output file
with open(filePath, "w") as file:
    # write date, time, and calendar
information to file
    file.write(dateString + "\n")
    file.write("-----\n")
    file.write(timeAmPm + " Am/Pm\n")
    file.write("-----\n")
    file.write(timeMilitary + " Military\n")

```

```

file.write("-----\n")
file.write(makeCalendar(now.year,
now.month))
file.write("-----")

```

```
####
```

```
makeFileWithData()
```

```
####
```

```
'''
```

```
2024-10-27
```

```
-----
```

```
02:02 PM
```

```
-----
```

```
14:02 Military
```

```
-----
```

```
October 2024
```

```
Mo Tu We Th Fr Sa Su
```

```
1 2 3 4 5 6
```

```
7 8 9 10 11 12 13
```

```
14 15 16 17 18 19 20
```

```
21 22 23 24 25 26 27
```

```
28 29 30 31
```

```
-----
```

'''

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#

Topalian_Python_Text_File_Journal_(Save_to_Specified_Folder).pyw

Version 001 - (2024-10-30)

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<https://sites.google.com/view/CollegeOfScripting>

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

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

// HowToCombineTextFilesOneFolder.js

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

We open our folder of text files in command prompt by typing cmd in the address bar of the folder of text files.

cmd
press Enter

This opens our folder in the Command prompt.

We type in the words
copy *.txt main.txt
press Enter

This creates a new file that is named main.txt
This new file contains all .txt files in ONE file.
The original files are kept the same.
The original files are not changed by the process.

After we activate our script and make our main.txt file, we notice that there is a junk character at the end of the main.txt script that we have to delete.

In VSCode the character might be called SUB

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



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

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

As we can see, the junk character is removed.

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

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

// HowToCombineTxtFilesMultipleFolders.js TUTORIAL:

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

Getting things ready:

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

Step One: Open our folder

Step Two: Type in the address bar of the folder, `cmd` and then press Enter

This opens our folder in the command prompt

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

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

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

Happy Scripting :-)

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

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

// HowToCombineTxtFilesUsingBatFile.js

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

The Command Prompt Method

or

The .bat File Method

The .bat file method is very easy.

We double click the bat file, which we locate in our text file folder, and it will make a main.txt file, which includes all .txt files in the folder, including all .txt files in all subdirectories of our folder.

This is a very easy way to combine our .txt files, because we can double click the .bat file anytime, and it will again generate the main.txt file, which includes all .txt files in the folder, including all .txt files in all subdirectories of our folder.

Happy Scripting :-)

:: Topalian_Combine_txt_Files_All_Folders.bat

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

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

@echo off

:: set the output file name

set "output=main.txt"

:: clear existing output file

type nul > "%output%"

:: loop through all txt files in subdirectories

for /r %%i in (*.txt) do (

:: append content of each file to output file

type "%%i" >> "%output%"

)

echo "Text files combined into %output% successfully."

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

**This version will successfully
combine a single folder of txt
files.**

**It also works to combine txt files
in all subdirectories.**

// Topalian_Combine_txt_Files.js

```
let fs = require('fs');
let path = require('path');

function combineTextFiles(directory,
textFileName)
{
    let outputFilePath = path.join(directory,
'main.txt');

    let fileContents = [];

    function traverseFolder(folder)
    {
        let files = fs.readdirSync(folder);

        for (let i = 0; i < files.length; i++)
        {
            let file = files[i];

            let filePath = path.join(folder, file);

            let stats = fs.statSync(filePath);

            if (stats.isDirectory())
```

```

    {
        traverseFolder(filePath);
    }
    else if (path.extname(filePath) === '.txt')
    {
        let content = fs.readFileSync(filePath,
'utf8');

        // check if file is not script file itself
        if (filePath !== textFileName)
        {
            fileContents.push(content);
        }
    }
}
}

traverseFolder(directory);

fs.writeFileSync(outputFilePath,
fileContents.join('\n'), 'utf8');

console.log(`Combined $
{fileContents.length} .txt files into $
{outputFilePath}`);
}

```

```
// get current directory of script  
let currentDirectory = process.cwd();
```

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

```
combineTextFiles(currentDirectory,  
textFileName);
```

How to Combine .txt files into one main.txt file using Python

**This version will successfully
combine a single folder of txt
files.**

**It also works to combine txt files
in all subdirectories.**

Topalian_Combine_txt_Files.py

```
import os
```

```
def combineTextFiles(directory, textFileName):  
    outputFilePath = os.path.join(directory,  
    'main.txt')
```

```
    fileContents = []
```

```
def traverseFolder(folder):
```

```
    for root, dirs, files in os.walk(folder):
```

```
        for file in files:
```

```
            filePath = os.path.join(root, file)
```

```
            if filePath != textFileName and
```

```
filePath.endswith('.txt'):
```

```
                with open(filePath, 'r',
```

```
encoding='utf-8') as f:
```

```
                    fileContents.append(f.read())
```

```
traverseFolder(directory)
```

```
with open(outputFilePath, 'w',  
encoding='utf-8') as f:
```

```
    f.write('\n'.join(fileContents))
```

```
    print(f"Combined {len(fileContents)} .txt files  
into {outputFilePath}")
```

```
# get current directory of script  
currentDirectory =  
os.path.dirname(os.path.abspath(__file__))
```

```
# get filename of script  
textFileName = os.path.abspath(__file__)
```

```
combineTextFiles(currentDirectory,  
textFileName)
```

What other file types can we combine?

We have combined .txt files in this book, but we might choose to instead combine:

.py or .js or .html

This is very useful for book making.

In each of the scripts shown in this book, we can manually change the parts where it says .txt, with .py, if we wanted to, for instance, copy all .py files into one main.py file.

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

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

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

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

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

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

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

```
function combineJSFiles(directory,  
scriptFilename)  
{  
  let outputPath = path.join  
(directory, 'main.js');  
  
  let fileContents = [];
```

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

We Find 1 of the spaces.

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

We highlight 1 space with our mouse arrow:

```
function combineJSFiles(directory,
scriptFilename)
```

```
{
```

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

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

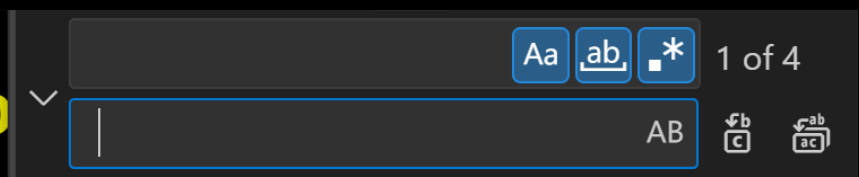
We press Control + H to open the Find/Replace feature and Replace All with our own Space

```
function comb
scriptFilename)
```

```
{
```

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

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



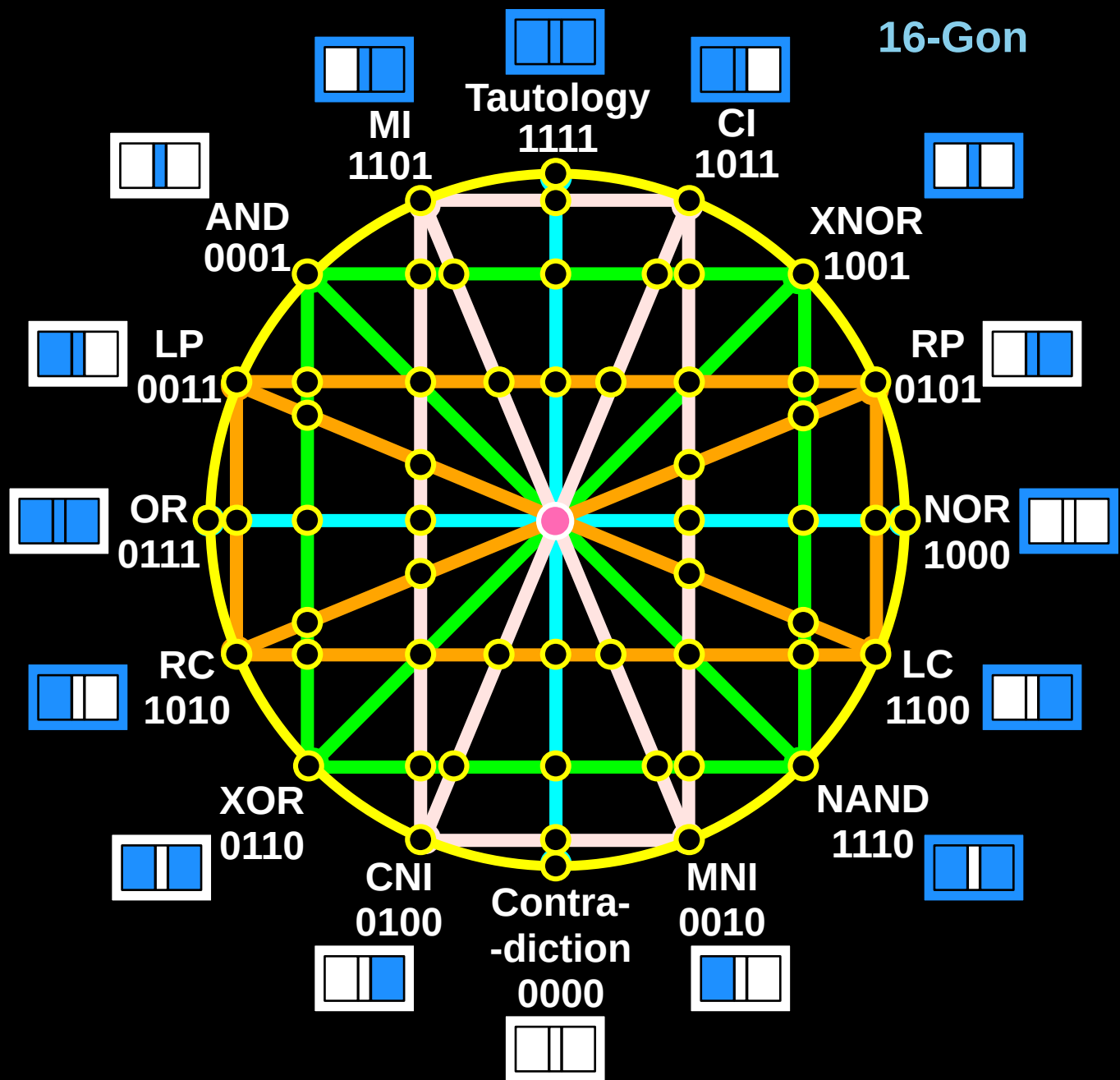
Here we see that the Find/Replace All has replaced the junk characters with our working spaces instead:

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

    let fileContents = [];
```

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

True Artificial Intelligence System



For More Tutorials:

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

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

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**This book is created by the
College of Scripting Music & Science.
Always remember, that each time you write a
script with a pencil and paper, it becomes
imprinted so deeply in memory that the
material and methods are learned extremely
well.**

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

**Write and Type every example that you find.
Keep all of your scripts organized.
Every script that you create increases your
programming abilities.
SEEING CODE, is one thing,
but WRITING CODE is another.
Write it, Type it, Speak it, See it, Dream it.**

CollegeOfScripting.weebly.com