

Universal Coding in Python and Node.js

by

Christopher Andrew Topalian

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Dedicated to God the Father

node.js

Universal Coding Style

Node.js Universal Coding Style

In this project folder, we have 4 files:

// getTime12.js

// getTime24.js

// Time.js

// usesClassTime.js

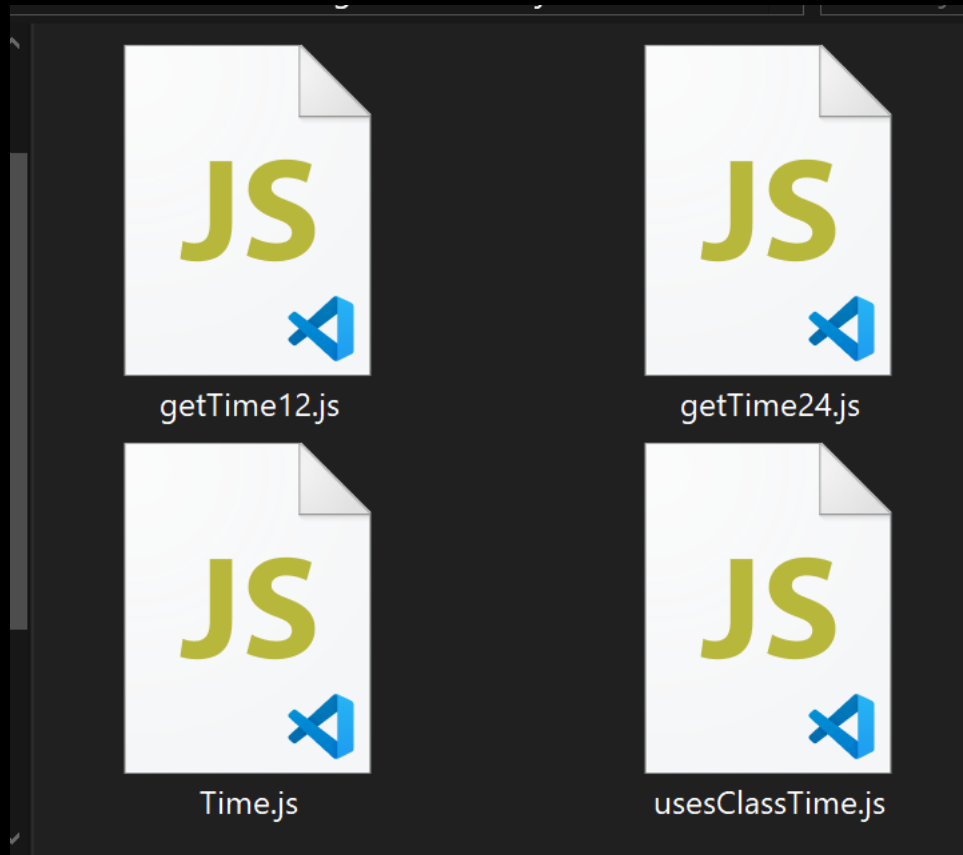
getTime12.js is a function

getTime24.js is a function

Time.js is a class that imports our functions

usesClassTime.js uses our Time.js class

We achieve a very pure functional style of coding and enable namespace for our functions using our class import method.



In this project folder, we have 4 files:

// getTime12.js

// getTime24.js

// Time.js

// usesClassTime.js

```
// getTime12.js
```

```
function getTime12()  
{
```

```
    // new date object for current date and time  
    let now = new Date();
```

```
    // time as 12 hour format AM/PM
```

```
    let hours = now.getHours();  
    let minutes = now.getMinutes();  
    let seconds = now.getSeconds();  
    let ampm;
```

```
    // determine AM or PM
```

```
    if (hours >= 12)  
    {  
        ampm = 'PM';  
    }
```

```
else
```

```
{
```

```
    ampm = 'AM';
```

```
}
```

```
// convert to 12 hour format
```

```
hours = hours % 12;
```

```
if (hours === 0)
```

```
{
```

```
    // the hour 0 should be 12
```

```
    hours = 12;
```

```
}
```

```
// pad minutes with leading zeros if needed
```

```
if (minutes < 10)
```

```
{
```

```
    minutes = '0' + minutes;
```

```
}

// pad seconds with leading zeros if needed
if (seconds < 10)
{
    seconds = '0' + seconds;
}

// return formatted time
return hours + ':' + minutes + ':' + seconds
+ ' ' + ampm;
}

if (require.main === module)
{
    console.log(getTime12());
}
```



```
module.exports = getTime12;
```

```
//----//
```

```
/*
```

```
4:15:30 PM
```

```
*/
```

```
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```

```
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```

```
// https://github.com/ChristopherTopalian
```

```
//
```

```
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n
```

```
//
```

```
https://sites.google.com/view/CollegeOfScript  
ing
```

```
// getTime24.js
```

```
function getTime24()  
{
```

```
    // new date object for current date and time  
    let now = new Date();
```

```
    // time as 12 hour format AM/PM
```

```
    let hours = now.getHours();  
    let minutes = now.getMinutes();  
    let seconds = now.getSeconds();
```

```
    if (hours === 0)
```

```
    {
```

```
        // the hour 0 should be 12
```

```
        hours = 12;
```

```
    }
```

```
// pad minutes with leading zeros if needed
if (minutes < 10)
{
    minutes = '0' + minutes;
}

// pad seconds with leading zeros if needed
if (seconds < 10)
{
    seconds = '0' + seconds;
}

// return formatted time
return hours + ':' + minutes + ':' + seconds;
}

if (require.main === module)
{
```

```
console.log(getTime24());  
}
```

```
module.exports = getTime24;
```

```
//----//
```

```
/*  
19:10:55  
*/
```

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

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

```
// Time.js
```

```
const getTime12 = require('./getTime12.js');  
const getTime24 = require('./getTime24.js');
```

```
// class that uses imported functions
```

```
class Time  
{  
  static getTime12()  
  {  
    return getTime12();  
  }  
  
  static getTime24()  
  {  
    return getTime24();  
  }  
}
```

```
module.exports = Time;
```

```
//----//
```

```
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```

```
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```

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//
```

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```

```
// usesClassTime.js
```

```
const Time = require('./Time.js');
```

```
console.log(Time.getTime12());
```

```
console.log(Time.getTime24());
```

```
process.stdin.resume();
```

```
process.stdin.once('data', function()
```

```
{
```

```
    process.exit();
```

```
});
```

```
//----//
```

```
/*
```

```
7:15:47 PM
```

```
19:15:47
```


***/**

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python

Universal Coding Style

Python Universal Coding Style

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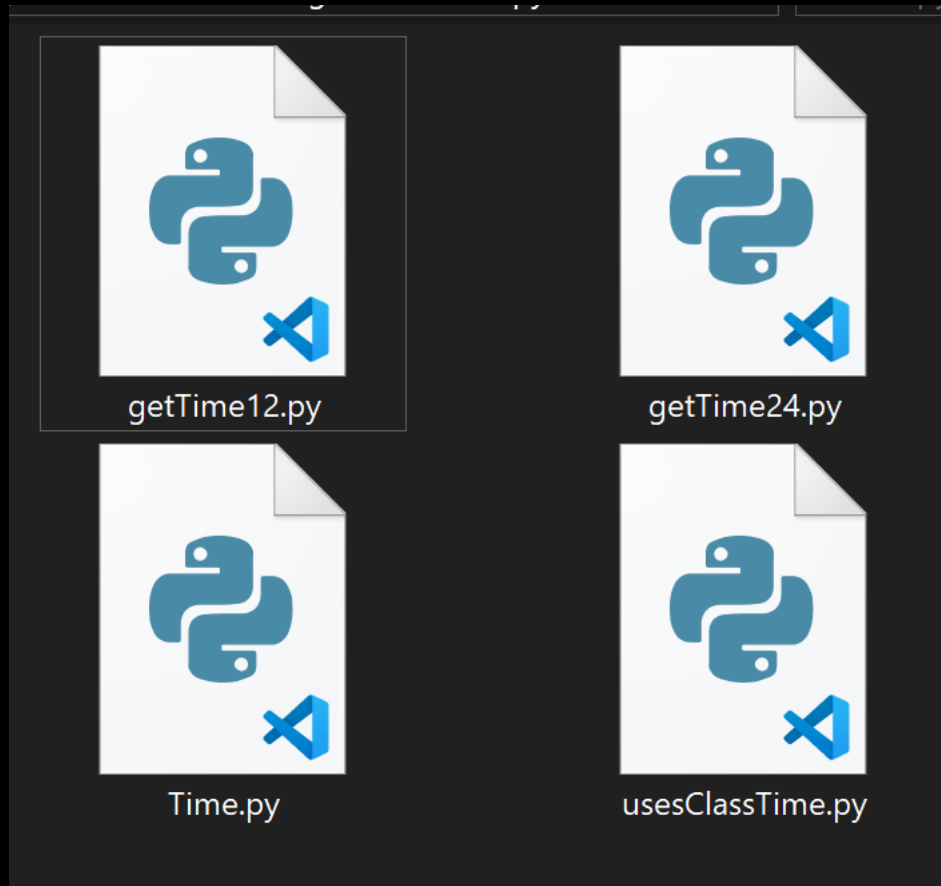
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In this project folder, we have 4 files:

// getTime12.py

// getTime24.py

// Time.py

// usesClassTime.py

```
# getTime12.py
```

```
import datetime as dt
```

```
def getTime12():  
    now = dt.datetime.now()  
    currentTime = now.strftime("%I:%M:%S  
%p")  
    return currentTime
```

```
##
```

```
if __name__ == "__main__":  
    print(getTime12())  
    input("")
```

```
####
```

'''

05:43:07 PM

'''

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```
# getTime24.py
```

```
import datetime as dt
```

```
def getTime24():  
    now = dt.datetime.now()  
    currentTime = now.strftime("%H:%M:%S")  
    return currentTime
```

```
##
```

```
if __name__ == "__main__":  
    print(getTime24())  
    input("")
```

```
####
```

```
'''
```

19:30:10

'''

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Time.py

from getTime12 import getTime12
from getTime24 import getTime24

class Time:
 getTime12 = getTime12
 getTime24 = getTime24

##

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n

```
# usesClassTime.py
```

```
import Time
```

```
print(Time.getTime12())
```

```
print(Time.getTime24())
```

```
input("")
```

```
####
```

```
'''
```

```
07:35:41 PM
```

```
19:35:41
```

```
'''
```

```
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```

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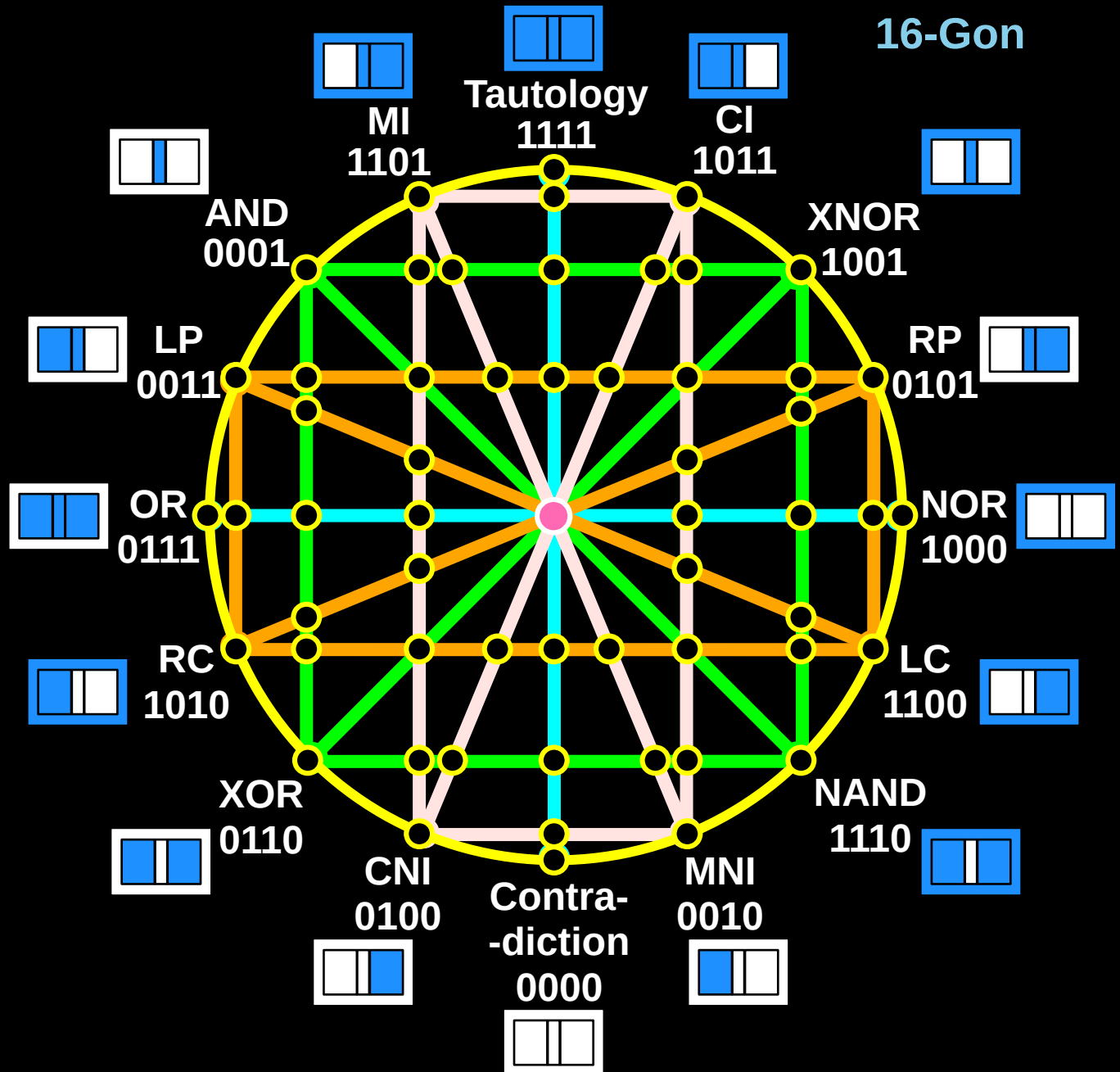
#

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True Artificial Intelligence System



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College of Scripting Music & Science.**

**Always remember, that each time you write a script
with a pencil and paper, it becomes imprinted so
deeply in memory that the material and methods are
learned extremely well.**

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

**Write and Type every example that you find.
Keep all of your scripts organized.**

**Every script that you create increases your
programming abilities.**

**SEEING CODE, is one thing,
but WRITING CODE is another.**

Write it, Type it, Speak it, See it, Dream it.

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