NodeJS初探

NodeJS介紹、express.js 入門

Week 7

NodeJS初探

- · NodeJS
 - ·脫離瀏覽器執行JavaScript的環境
- · npm
 - · node package manager

Terminal / Cmd 簡單操作

- · cd my-work
 - · 切換到 my-work 資料夾底下工作
- · cd ...
 - ·切換到上一層資料夾工作
- · mkdir test-dir
 - ·新增一個叫做 test-dir 的資料夾

NodeJS初探

- ·打開一個新的js檔案
- ·用 console.log 搭配迴圈印出一些文字
- · 在 cmd 用 nodejs 執行你剛剛的檔案 (node aa.js)

讀取檔案

```
var fs = require('fs');
var data = fs.readFileSync('data.txt', 'utf-8');
console.log(data);
```

讀取檔案

```
var fs = require('fs');
var readline = require('readline');
var reader = readline.createInterface({
    input: fs.createReadStream('numbers.txt')
});
var sum = 0;
reader.on('line', function(line) {
    var n = parseInt(line, 10);
    sum += n;
    console_log('讀到了一個數字:' + n);
    console.log('目前總和:' + sum);
});
console.log('sum1 = ' + sum);
reader.on('close', function(line) {
    console.log('sum2 = ' + sum);
});
```

寫入檔案

```
var fs = require('fs');
var outfile = fs.createWriteStream('output.txt');
var data = '';
for(var i = 0; i < 20; i++) {
    var n = Math.floor(Math.random() * 20);
    data += n + ' \n';
outfile.write(data);
outfile.close();
```

題入檔案

我覺得這樣好麻煩 QQ

npm install buffered-writer

寫入檔案

```
var buffered writer = require ("buffered-writer");
var writer = buffered writer.open ("lines.txt");
for(var i = 0; i < 10; i++) {
    writer.write(i + '\n');
writer.close();
```

```
var readline = require('readline');
var reader = readline.createInterface({
    input: process.stdin,
    output: process.stdout
});
var magic = Math.floor(Math.random() * 30);
function play guess number()
    reader.question('猜一個數字:', function(line) {
        var n = parseInt(line);
        if(n == magic){
            console.log('猜對囉!');
            reader.close();
            return;
        } else if(n > magic) {
            console.log('猜太大了');
        } else if (n < magic) {</pre>
            console.log('猜太小了');
        play guess number();
    });
play_guess_number();
```

有黑片葉性懂嗎?

可是這就是 JavaScript QAQ

npm install readline-sync

```
var readline = require('readline-sync');
var magic = Math.floor(Math.random() * 30);
function play guess number()
    while(true) {
        var n = parseInt(readline.question('Guess a number: '));
        if(n == magic){
            console.log('猜對囉!');
            break;
        } else if(n > magic) {
            console.log('猜太大了');
        } else if (n < magic) {</pre>
            console.log('猜太小了');
play guess number();
```

require?

引用 NodeJS 內建程式庫以及外部程式的方法,可以引入內建的程式庫,或是透過 npm install 安裝的外部程式庫

require!

接下來請新增兩個檔案,放在同一個資料夾執行

myadd.js

```
function add2numbers(a, b)
{
    return a + b;
}
module.exports = add2numbers;
```

use-add.js

```
var add2numbers = require('./myadd.js');
console.log('1 + 1 = ' + add2numbers(1, 1));
```