

JavaScript Introduction(2)

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Function

```
1 function foo () {  
2     // statement  
3 }  
4
```

```
1 let bar = function () {  
2     // statements  
3 }  
4
```

Parameters

```
1 function foo (x) {  
2     return x * x;  
3 }  
4
```

Arrow Function

```
1 let bar = () => {  
2     // statements  
3 }  
/
```

Practice

- 費氏數列
- 尋找質數
- 巴斯卡三角形
- 輸出 2進位

Event

Mouse Events

- onclick
- ondbclick
- onmousedown
- Onmouseup

Keyboard Events

- onkeydown
- onkeyup
- onkeypress

More Event?

https://www.w3schools.com/tags/ref_eventattributes.asp

Dispatch Event

```
1 <html>
2   <head>
3     <script>
4       const foo = () => {
5         console.log(1);
6       };
7     </script>
9   </head>
10  <body>
11    <h1 onclick="console.log(0)">Click me</h1>
12    <h1 onclick="foo()">Click me</h1>
13  </body>
13 </html>
14
```

Interval

setInterval / clearInterval

```
1 function foo () {  
2     console.log('Hello world');  
3  
4 }  
5  
6 setInterval(foo, 5000);  
7
```

```
1 const temp = setInterval(function() {  
2     // do something...  
3 }, 10000);  
4  
5 clearInterval(temp);  
6
```


Timeout

setTimeout / clearTimeout

```
1 const temp = setTimeout(function() {  
2     // do something...  
3 }, 10000);  
4  
5 setTimeout(temp);  
6
```

Document Object Model

Element Selection

- body / head
- getElementById
- getElementsByClassName
- getElementsByTagName

Element methods

- childNodes
- firstChild
- lastChild
- hasChildNodes
- nextSibling
- parentNode

Element Operation

Change inner text / value

- innerHTML
- Attributes
- Styles

```
1 const el = document.getElementById('temp');
2 el.innerHTML = 'Hello world!';
3
4 const image = document.getElementsByClassName('foo');
5 image[1].src = './temp.img';
6
7 const text = document.getElementsByTagName('span');
8 text[0].style.color = 'blue';
9
```

Element Methods

- createElement
- appendChild
- removeChild
- replaceChild

Practice 1

<https://popcat.click/>

Practice 2

ToDo List

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