

W04-P1: P4_xx -- Counter Demo

The screenshot shows a browser window displaying a "Counter" application. The counter value is "-1". Below it are three buttons: "DECREASE", "RESET", and "INCREASE". The browser's developer tools are open, showing the DOM tree, the JavaScript file "p4_31.js", and the console tab.

DOM Tree:

```

<span id="value">0</span>
  +-- btns > NodeList(3)
    +-- <button>DECREASE</button>
    +-- <button>RESET</button>
    +-- <button>INCREASE</button>
  
```

JavaScript (p4_31.js):

```

// 多個用 all; class 用 .btn
const btns = document.querySelectorAll('.btn');

// console.log('value', value);
// console.log('btns', btns);

// forEach 監聽每個(); => {}; e: 每一個事件
// e.currentTarget: 抓到你所點的位置："滑鼠事件"
// e.currentTarget.classList: 脳成一個陣列
btns.forEach(btn => {
  btn.addEventListener('click', (e) => {
    console.log(e, e.currentTarget.classList);
    const styles = e.currentTarget.classList;
    // If 訊音 decrease 就 -1, If 訊音 reset 就歸 0
    if (styles.contains('decrease')) {
      count--;
    } else if (styles.contains('reset')) {
      count = 0;
    } else if (styles.contains('increase')) {
      count++;
    }
    // If count > 0, 顏色改成綠色
    if (count > 0) {
      value.style.color = 'green';
    } else if (count === 0) {
      value.style.color = '#222';
    } else if (count < 0) {
      value.style.color = 'red';
    }

    //.textContent 顯示內容; 把 value 的值換成 count
    value.textContent = count;
  });
});
  
```

Console Tab:

```

Live reload enabled.
e > DOMTokenList(2) ['btn', 'decrease', value: 'btn decrease']
e > DOMTokenList(2) ['btn', 'reset', value: 'btn reset']
e > DOMTokenList(2) ['btn', 'increase', value: 'btn increase']
e > DOMTokenList(2) ['btn', 'reset', value: 'btn reset']
e > DOMTokenList(2) ['btn', 'decrease', value: 'btn decrease']
  
```

The screenshot shows a browser window with a tab titled "P4_31 - Counter". The page displays a counter value of "-1" in a red-bordered box, with three buttons below it: "DECREASE", "RESET", and "INCREASE". The browser's developer tools are open, showing the element tree and styles panel. The styles panel highlights a rule for the span element with id="value": `span#value {color: red;}`. The source code in VS Code is also visible, with several lines highlighted in red boxes:

```

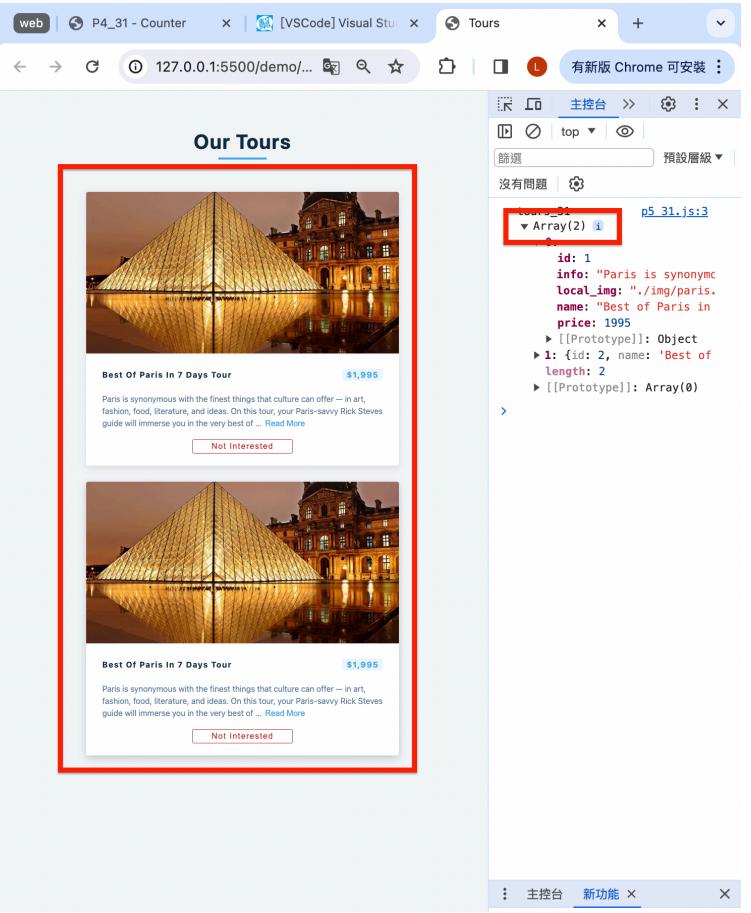
//多個用all;class用.btn
const btns = document.querySelectorAll('.btn');
console.log('value', value);
console.log('btns', btns);
//forEach監聽每一個(); => {}; e:每一個事件
//e.currentTarget:抓到你所點的位置，“滑鼠事件”
//e.currentTarget.classList:弄成一個陣列
btns.forEach((btn) => {
  btn.addEventListener('click', (e) => {
    console.log('e', e.currentTarget.classList);
    const styles = e.currentTarget.classList;
    //if 按decrease時-1 if 有令reset解體
    if (styles.contains('decrease')) {
      count--;
    } else if (styles.contains('reset')) {
      count = 0;
    } else if (styles.contains('increase')) {
      count++;
    }
    //if count>0,顏色改綠色
    if (count > 0) {
      value.style.color = 'green';
    } else if (count === 0) {
      value.style.color = '#222';
    } else if (count < 0) {
      value.style.color = 'red';
    }
    //textContent顯示內容;把value的值換成count
    value.textContent = count;
  });
});

```

b3be9ac 陳亮瑜 Thu Mar 14 19:09:11 2024 +0800 git log --pretty=format:%h%x09%an%x09%ad%

W04-P2: P5_xx -- Tours display two fixed data

- data.js 資料還沒進來，但因為 data.js 裡面有兩筆資料，所以會顯示兩筆，只是內容還是 p5_31.js 中 return 裡夾的資料



2a0e9e6 陳亮瑜 Thu Mar 14 19:56:26 2024 +0800 ### W04-P2: P5_xx -- Tours display two f

W04-P3: P5_xx -- Display 5 tours from data_xx.js (json array)

- 把資料用 `const { id, info, local_img, name, price } = tour` 解構，用`$()`放進程式

VSCode screenshot showing the code for `p5_31.js` and the browser output.

```

1 import { tours_31 } from './data_31.js';
2
3 console.log('tours_31', tours_31);
4
5 const section = document.querySelector('.section-center');
6
7 //toursInfo陣列
8 //map處理陣列,把陣列裡資料一個一個讀進去
9 //({}):每一個變數資料,自己設的
10 // ``:夾字串,網頁資料
11 const displayTours_31 = () => {
12   const toursInfo = tours_31
13   .map((tour) => {
14     const { id, info, local_img, name, price } = tour;
15     return `
16       <article class="single-tour">
17         <img src=${local_img} alt=${name}/>
18         <footer>
19           <div class="tour-info">
20             <h4>${name}</h4>
21             <h4 class="tour-price">$${price}</h4>
22           </div>
23           <p>
24             ${info}
25             <button>read more</button>
26           </p>
27           <button class="delete-btn">not interested</button>
28         </footer>
29       </article>
30     `;
31   })
32   .join('');
33   //inner一個網頁進來section
34   section.innerHTML = toursInfo;
35 };
36
37 //擺進html .section-center
38 window.addEventListener('DOMContentLoaded', () => {
39   | displayTours_31();
40 });
41

```

The browser shows two tour cards:

- Best Of Paris In 7 Days Tour**: \$1995. Description: Paris is synonymous with the finest things that culture can offer – in art, fashion, food, literature, and ideas. On this tour, your Paris-savvy Rick Steves guide will immerse you in the very best of ... [Read More](#)
- Best Of Ireland In 14 Days Tour**: \$3985. Description: Paris is synonymous with the finest things that culture can offer – in art, fashion, food, literature, and ideas. On this tour, your Paris-savvy Rick Steves guide will immerse you in the very best of ... [Read More](#)

DevTools sidebar shows the `tours_31` array structure.

VSCode screenshot showing the code for `p5_31.js` and the browser output.

```

1 //HTML要記得寫<script type="module" src="./p5_31.js"></script>
2 export const tours_31 = [
3   {
4     id: 1,
5     name: 'Best of Paris in 7 Days Tour',
6     info: 'Paris is synonymous with the finest things that culture can offer – in art, fashion, food, literature, and ideas. On this tour, your Paris-savvy Rick Steves guide will immerse you in the very best of ... Read More',
7     local_img: './img/paris.jpg',
8     price: 1995,
9   },
10   {
11     id: 2,
12     name: 'Best of Ireland in 14 Days Tour',
13     info: 'Paris is synonymous with the finest things that culture can offer – in art, fashion, food, literature, and ideas. On this tour, your Paris-savvy Rick Steves guide will immerse you in the very best of ... Read More',
14     local_img: './img/ireland.jpeg',
15     price: 3985,
16   },
17   {
18     id: 3,
19     name: 'Best of Salzburg & Vienna in 8 Days Tour',
20     info: 'Let's go where classical music, towering castles, and the hills meet! This tour takes you through Austria's most beautiful landscapes, from the Alpine peaks to the rolling vineyards of the Wachau Valley. You'll discover the beauty of the Salzburg Opera House, the Hofburg Palace in Vienna, and the charming towns of Hallstatt and St. Wolfgang. Along the way, you'll experience the rich history and culture of this stunning region. Book now and start planning your adventure today!',
21     local_img: './img/vienna.jpeg',
22     price: 2695,
23   },
24   {
25     id: 4,
26     name: 'Best of Rome in 7 Days Tour',
27     info: 'Let's go where classical music, towering castles, and the hills meet! This tour takes you through Austria's most beautiful landscapes, from the Alpine peaks to the rolling vineyards of the Wachau Valley. You'll discover the beauty of the Salzburg Opera House, the Hofburg Palace in Vienna, and the charming towns of Hallstatt and St. Wolfgang. Along the way, you'll experience the rich history and culture of this stunning region. Book now and start planning your adventure today!',
28     local_img: './img/italy.jpeg',
29     price: 2095,
30   },
31   {
32     id: 5,
33     name: 'Best of Poland in 10 Days Tour',
34     info: 'Let's go where classical music, towering castles, and the hills meet! This tour takes you through Austria's most beautiful landscapes, from the Alpine peaks to the rolling vineyards of the Wachau Valley. You'll discover the beauty of the Salzburg Opera House, the Hofburg Palace in Vienna, and the charming towns of Hallstatt and St. Wolfgang. Along the way, you'll experience the rich history and culture of this stunning region. Book now and start planning your adventure today!',
35     local_img: './img/poland.jpeg',
36     price: 2595,
37   },
38 ];
39

```

The browser shows five tour cards:

- Best Of Paris In 7 Days Tour**: \$1995. Description: Paris is synonymous with the finest things that culture can offer – in art, fashion, food, literature, and ideas. On this tour, your Paris-savvy Rick Steves guide will immerse you in the very best of ... [Read More](#)
- Best Of Ireland In 14 Days Tour**: \$3985. Description: Paris is synonymous with the finest things that culture can offer – in art, fashion, food, literature, and ideas. On this tour, your Paris-savvy Rick Steves guide will immerse you in the very best of ... [Read More](#)
- Best Of Salzburg & Vienna In 8 Days Tour**: \$2695. Description: Let's go where classical music, towering castles, and the hills meet! This tour takes you through Austria's most beautiful landscapes, from the Alpine peaks to the rolling vineyards of the Wachau Valley. You'll discover the beauty of the Salzburg Opera House, the Hofburg Palace in Vienna, and the charming towns of Hallstatt and St. Wolfgang. Along the way, you'll experience the rich history and culture of this stunning region. [Read More](#)
- Best Of Rome In 7 Days Tour**: \$2095. Description: Let's go where classical music, towering castles, and the hills meet! This tour takes you through Austria's most beautiful landscapes, from the Alpine peaks to the rolling vineyards of the Wachau Valley. You'll discover the beauty of the Salzburg Opera House, the Hofburg Palace in Vienna, and the charming towns of Hallstatt and St. Wolfgang. Along the way, you'll experience the rich history and culture of this stunning region. [Read More](#)
- Best Of Poland In 10 Days Tour**: \$2595. Description: Let's go where classical music, towering castles, and the hills meet! This tour takes you through Austria's most beautiful landscapes, from the Alpine peaks to the rolling vineyards of the Wachau Valley. You'll discover the beauty of the Salzburg Opera House, the Hofburg Palace in Vienna, and the charming towns of Hallstatt and St. Wolfgang. Along the way, you'll experience the rich history and culture of this stunning region. [Read More](#)

DevTools sidebar shows the `tours_31` array structure.

W04-P4: P6_xx -- BMI Compute with Suggestion

=> bmiDataCalc(bmi_data_xx);

The screenshot shows a development environment with two main windows. On the left is a VSCode editor window titled 'p6_31.js' containing JavaScript code. A red box highlights the section of code that defines the `bmiDataCalc` function and its execution. On the right is a Chrome browser window displaying the results of the code execution. The title bar of the browser says 'P6_31: BMI With Suggestion'. Below the title, it shows the name 'Liang Yu Chen 208410331'. The browser's developer tools are open, specifically the 'Console' tab, which contains the output of the console logs. A red box highlights the output text, which includes four BMI calculations for different height and weight pairs, each followed by a message indicating the BMI value.

```
import { bmi_data } from './data_31.js';
//import bmi_data_31 from './data_31.js'; //會出錯
let bmi_data_31 = bmi_data;
console.log('bmi_data', bmi_data_31);

//same-->const bmiCalc_31 = (height, weight) => {
function bmiCalc_31(height, weight) {
    return weight / (height * height);
}

//顯示bmiCalc_31計算結果
function bmiCalcResult_31(height, weight) {
    let bmi = bmiCalc_31(height, weight).toFixed(2);
    console.log(`For (h,w) = (${height}, ${weight}), the BMI = ${bmi}`);
}

function bmiDataCalc(data) {
    data.forEach(function (item) {
        bmiCalcResult_31(item.height, item.weight);
    });
}

//bmiCalcResult_31(1.75, 55);
//bmiCalcResult_31(1.75, 70);
//bmiCalcResult_31(1.75, 85);

bmiDataCalc(bmi_data_31);

///////////////////////////////
//建立建議標準
function bmi_normal_low(height) {
    return 18.5 * height * height;
}
function bmi_normal_height(height) {
    return 24 * height * height;
}

//顯示bmiCalc_31建議結果
function bmiCalcSuggestion_31(height, weight) {
    let bmi = bmiCalc_31(height, weight).toFixed(2);
    if (bmi < 18.5) {
        let normal_low = bmi_normal_low(height);
        console.log(`For (h,w) = (${height}, ${weight}), the BMI = ${bmi}. Suggestion: Normal low limit is ${normal_low}`);
    }
}
```

P6_31: BMI With Suggestion
Liang Yu Chen 208410331

```
bmi_data ▶ (3) [ { ... }, { ... }, { ... } ]
For (h,w) = (1.75,55), the BMI = 17.96
For (h,w) = (1.75,70), the BMI = 22.86
For (h,w) = (1.75,85), the BMI = 27.76
```

=> bmiDataCalcSuggestion(bmi_data_xx);

The screenshot shows a browser window with the URL `127.0.0.1:5500/de...`. The page title is "P6_31: BMI With Suggestion". Below it, the name "Liang Yu Chen 208410331" is displayed. The main content area contains the following text:

```
P6_31: BMI With Suggestion
Liang Yu Chen 208410331

For (h,w) = (1.75,55), the BMI = 17.96 which is 1.66 kg lower than normal
For (h,w) = (1.75,70), the BMI = 22.86 which is normal
For (h,w) = (1.75,85), the BMI = 27.76 which is 11.50 kg higher than normal
```

Below the browser window is a terminal window showing the command:

```
git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2024-03-13"
```

526cd2f 陳亮瑜 Thu Mar 14 21:22:52 2024 +0800 ### W04-P4: P6_xx -- BMI Compute with Su

W04-Log:

```
git log --pretty=format:"%h%x09%an%x09%ad%x09%s" --after="2024-03-13"
```

526cd2f 陳亮瑜 Thu Mar 14 21:22:52 2024 +0800 ### W04-P4: P6_xx -- BMI Compute with Su
964d1aa 陳亮瑜 Thu Mar 14 20:26:10 2024 +0800 ## W04-P3: P5_xx -- Display 5 tours from
2a0e9e6 陳亮瑜 Thu Mar 14 19:56:26 2024 +0800 ### W04-P2: P5_xx -- Tours display two f
b3be9ac 陳亮瑜 Thu Mar 14 19:09:11 2024 +0800 git log --pretty=format:%h%x09%an%x09%ad%