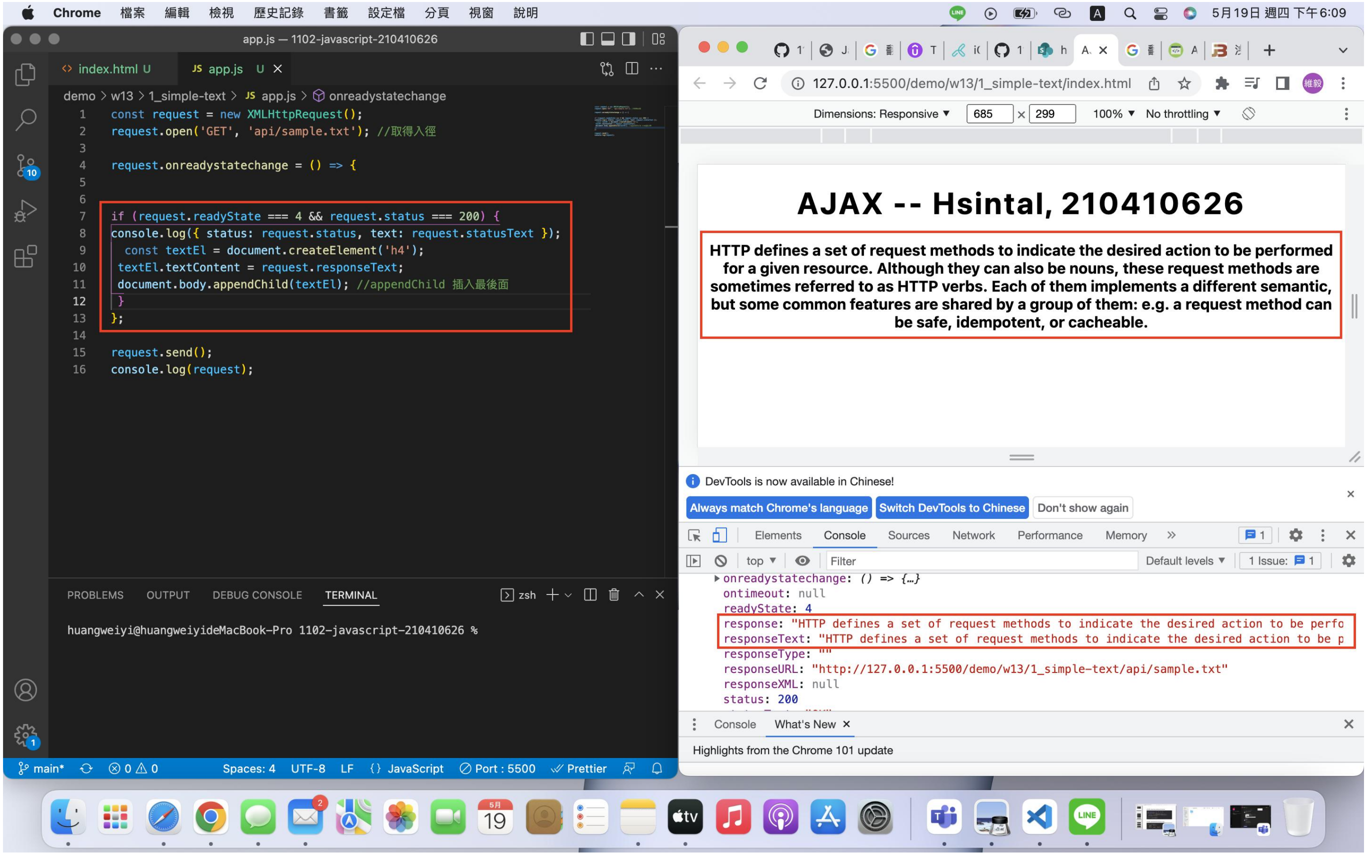
w13-p1: use xhr object to get sample.txt, and show it on webpage


Chrome 檔案 編輯 檢視 歷史記錄 書籤 設定檔 分頁 視窗 說明
5月19日 週四 下午6:09
app.js — 1102-javascript-210410626
index.html U
app.js U
demo > w13 > 1_simple-text > app.js > onreadystatechange
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
main* ⊗ 0 ⚠ 0 Spaces: 4 UTF-8 LF {} JavaScript Port : 5500 Prettier
127.0.0.1:5500/demo/w13/1_simple-text/index.html
Dimensions: Responsive 685 × 299 100% No throttling
DevTools is now available in Chinese!
Always match Chrome's language
Switch DevTools to Chinese
Don't show again
Elements Console Sources Network Performance Memory
top Filter Default levels 1 Issue: 1
Console What's New
Highlights from the Chrome 101 update

```javascript
const request = new XMLHttpRequest();
request.open('GET', 'api/sample.txt'); //取得入徑

request.onreadystatechange = () => {


if (request.readyState === 4 && request.status === 200) {
console.log({ status: request.status, text: request.statusText });
  const textEl = document.createElement('h4');
 textEl.textContent = request.responseText;
 document.body.appendChild(textEl); //appendChild 插入最後面
 }
};

request.send();
console.log(request);
```

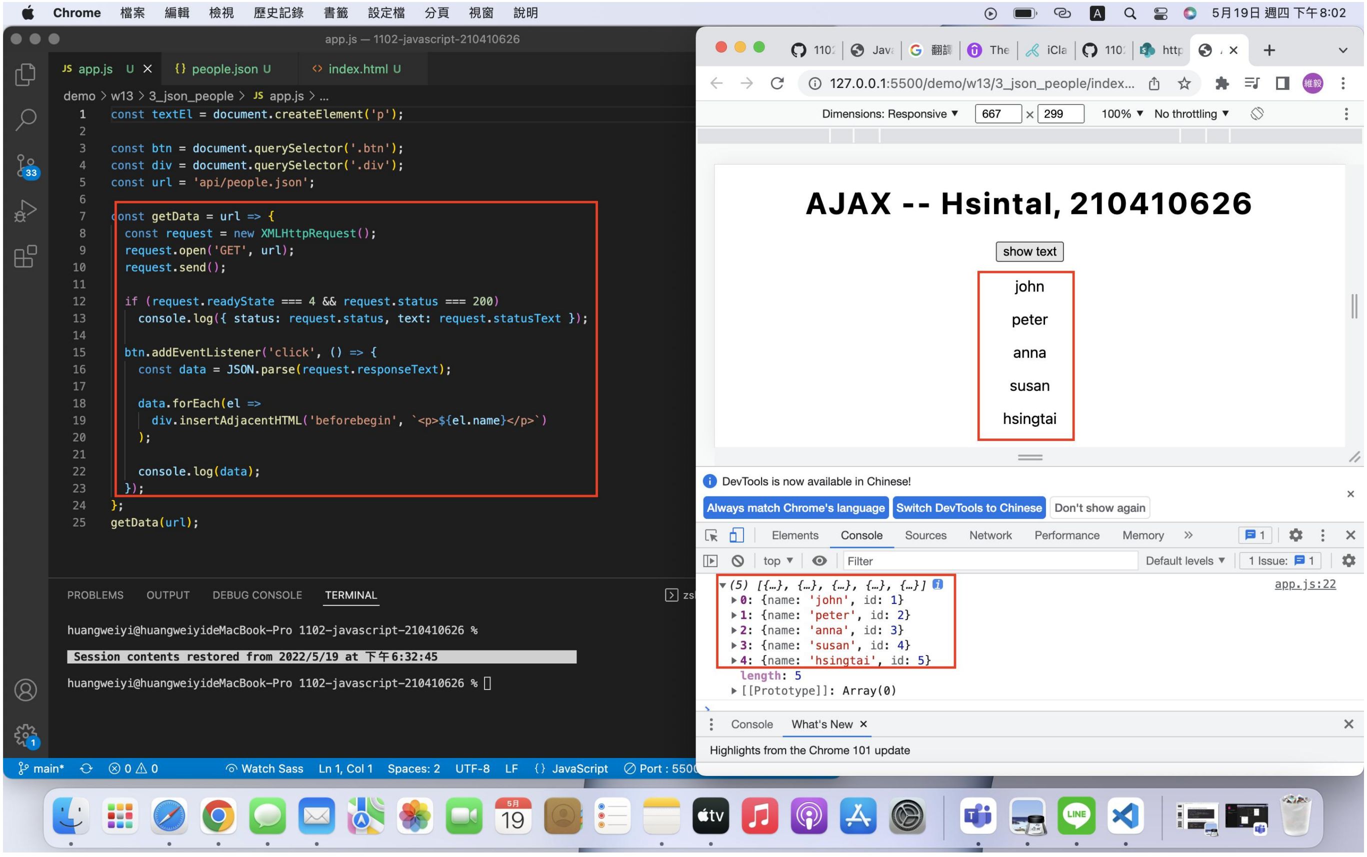
```
huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %
```

AJAX -- Hsintal, 210410626

HTTP defines a set of request methods to indicate the desired action to be performed for a given resource. Although they can also be nouns, these request methods are sometimes referred to as HTTP verbs. Each of them implements a different semantic, but some common features are shared by a group of them: e.g. a request method can be safe, idempotent, or cacheable.

```
▸ onreadystatechange: () => {…}
  ontimeout: null
  readyState: 4
  response: "HTTP defines a set of request methods to indicate the desired action to be perfo
  responseText: "HTTP defines a set of request methods to indicate the desired action to be p
  responseType: ""
  responseURL: "http://127.0.0.1:5500/demo/w13/1_simple-text/api/sample.txt"
  responseXML: null
  status: 200
```

w13-p2: use xhr object to get people.json, and show it on webpage


Chrome 檔案 編輯 檢視 歷史記錄 書籤 設定檔 分頁 視窗 說明
5月19日 週四 下午8:02
app.js — 1102-javascript-210410626
app.js U
people.json U
index.html U
demo > w13 > 3_json_people > app.js > ...
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
main* ⊗ 0 ⚠ 0 Watch Sass Ln 1, Col 1 Spaces: 2 UTF-8 LF {} JavaScript Port : 5500
127.0.0.1:5500/demo/w13/3_json_people/index...
Dimensions: Responsive 667 × 299 100% No throttling
DevTools is now available in Chinese!
Always match Chrome's language
Switch DevTools to Chinese
Don't show again
Elements Console Sources Network Performance Memory
top Filter Default levels 1 Issue: 1
Console What's New
Highlights from the Chrome 101 update

```javascript
const textEl = document.createElement('p');

const btn = document.querySelector('.btn');
const div = document.querySelector('.div');
const url = 'api/people.json';

const getData = url => {
  const request = new XMLHttpRequest();
  request.open('GET', url);
  request.send();

  if (request.readyState === 4 && request.status === 200)
    console.log({ status: request.status, text: request.statusText });

  btn.addEventListener('click', () => {
    const data = JSON.parse(request.responseText);

    data.forEach(el =>
      div.insertAdjacentHTML('beforebegin', `<p>${el.name}</p>`)
    );

    console.log(data);
  });
};
getData(url);
```

```
huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %

 Session contents restored from 2022/5/19 at 下午6:32:45

huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %
```

AJAX -- Hsintal, 210410626

show text

john

peter

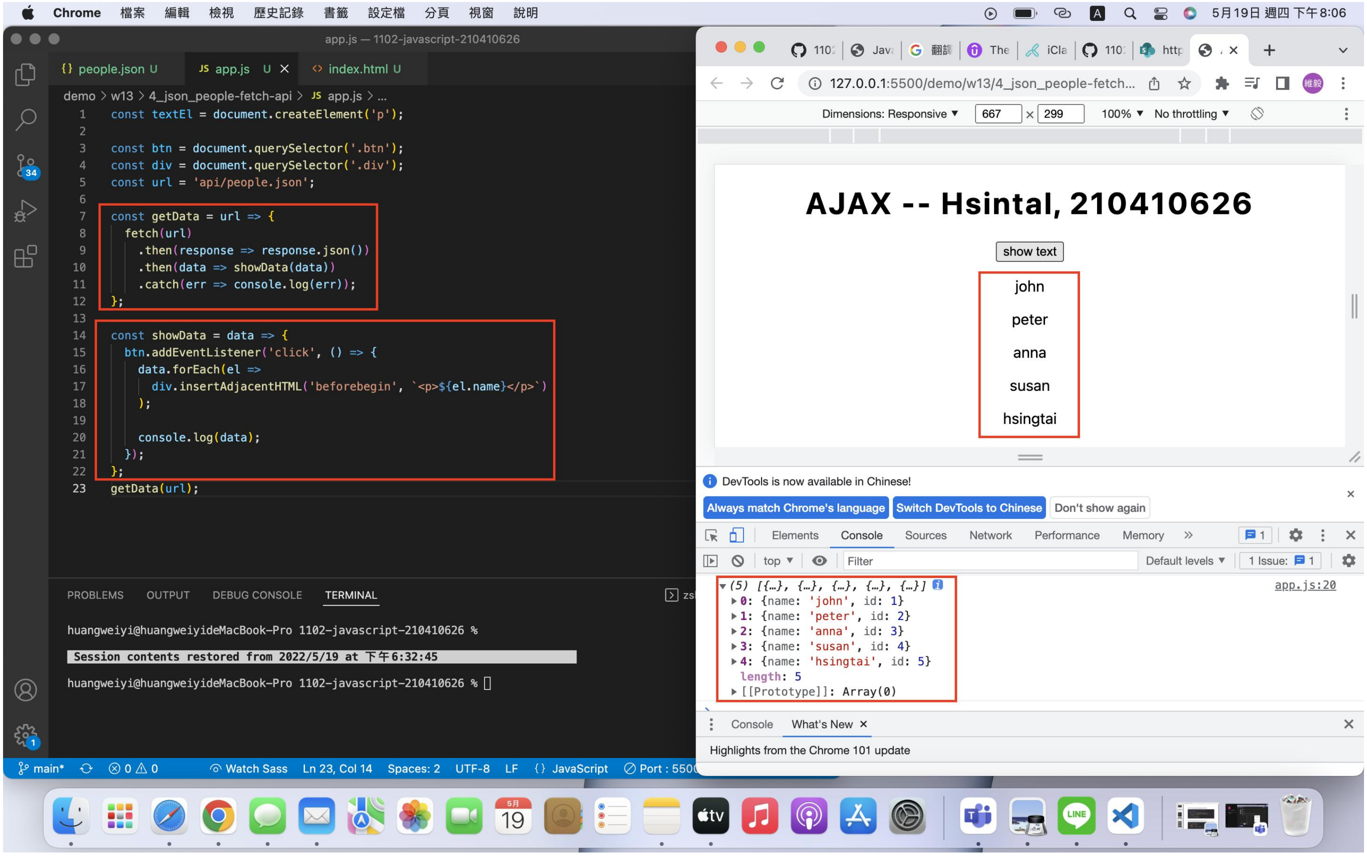
anna

susan

hsingtai

```
▾(5) [{…}, {…}, {…}, {…}, {…}]                                   app.js:22
  ▸0: {name: 'john', id: 1}
  ▸1: {name: 'peter', id: 2}
  ▸2: {name: 'anna', id: 3}
  ▸3: {name: 'susan', id: 4}
  ▸4: {name: 'hsingtai', id: 5}
   length: 5
  ▸[[Prototype]]: Array(0)
```

w13-p3: use fetch api to get people.json, and show it on webpage



Chrome 檔案 編輯 檢視 歷史記錄 書籤 設定檔 分頁 視窗 說明
5月19日 週四 下午8:06
app.js — 1102-javascript-210410626
people.json U
app.js U
index.html U
demo > w13 > 4_json_people-fetch-api > app.js > ...
127.0.0.1:5500/demo/w13/4_json_people-fetch...
Dimensions: Responsive 667 × 299 100% No throttling
DevTools is now available in Chinese!
Always match Chrome's language
Switch DevTools to Chinese
Don't show again
Elements Console Sources Network Performance Memory
top Filter Default levels 1 Issue: 1
Console What's New
Highlights from the Chrome 101 update
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
main* 0 0 Watch Sass Ln 23, Col 14 Spaces: 2 UTF-8 LF JavaScript Port : 5500

```javascript
const textEl = document.createElement('p');

const btn = document.querySelector('.btn');
const div = document.querySelector('.div');
const url = 'api/people.json';

const getData = url => {
  fetch(url)
    .then(response => response.json())
    .then(data => showData(data))
    .catch(err => console.log(err));
};

const showData = data => {
  btn.addEventListener('click', () => {
    data.forEach(el =>
      div.insertAdjacentHTML('beforebegin', `<p>${el.name}</p>`)
    );

    console.log(data);
  });
};
getData(url);
```

```
huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %
 Session contents restored from 2022/5/19 at 下午6:32:45
huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %
```

AJAX -- Hsintal, 210410626

show text

john

peter

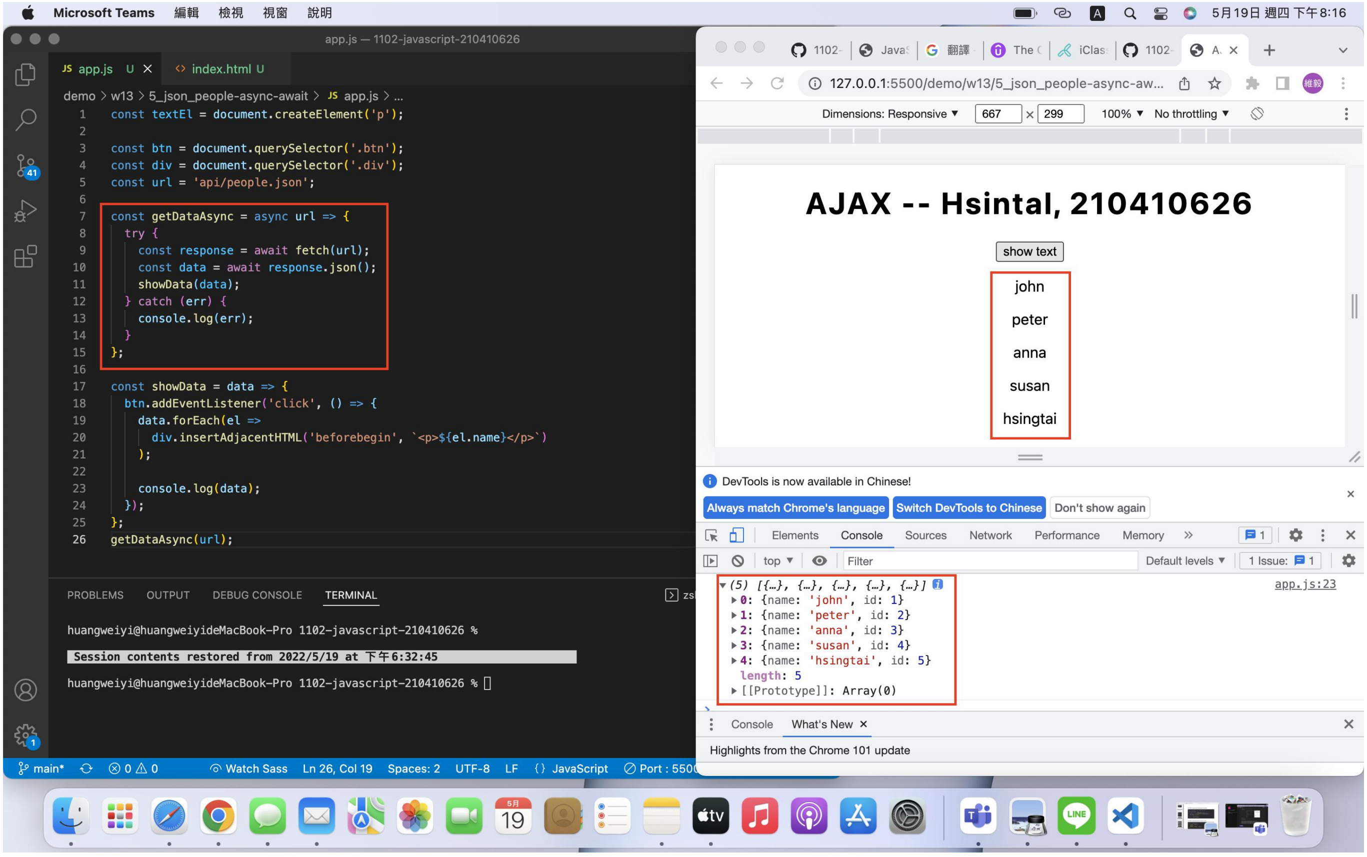
anna

susan

hsingtai

```
▼(5) [{…}, {…}, {…}, {…}, {…}]                     app.js:20
 ▶0: {name: 'john', id: 1}
 ▶1: {name: 'peter', id: 2}
 ▶2: {name: 'anna', id: 3}
 ▶3: {name: 'susan', id: 4}
 ▶4: {name: 'hsingtai', id: 5}
  length: 5
 ▶[[Prototype]]: Array(0)
```

w13-p4: use async/await to get people.json, and show it on webpage



Microsoft Teams 編輯 檢視 視窗 說明
5月19日 週四 下午8:16
app.js — 1102-javascript-210410626
app.js U
index.html U
demo > w13 > 5_json_people-async-await > app.js > ...
127.0.0.1:5500/demo/w13/5_json_people-async-aw...
Dimensions: Responsive 667 × 299 100% No throttling
DevTools is now available in Chinese!
Always match Chrome's language
Switch DevTools to Chinese
Don't show again
Elements Console Sources Network Performance Memory
top Filter Default levels 1 Issue: 1
Console What's New
Highlights from the Chrome 101 update
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
main* 0 0 Watch Sass Ln 26, Col 19 Spaces: 2 UTF-8 LF JavaScript Port : 5500

```javascript
const textEl = document.createElement('p');

const btn = document.querySelector('.btn');
const div = document.querySelector('.div');
const url = 'api/people.json';

const getDataAsync = async url => {
  try {
    const response = await fetch(url);
    const data = await response.json();
    showData(data);
  } catch (err) {
    console.log(err);
  }
};

const showData = data => {
  btn.addEventListener('click', () => {
    data.forEach(el =>
      div.insertAdjacentHTML('beforebegin', `<p>${el.name}</p>`)
    );

    console.log(data);
  });
};
getDataAsync(url);
```

```
huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %
 Session contents restored from 2022/5/19 at 下午6:32:45
huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %
```

AJAX -- Hsintal, 210410626

show text

john

peter

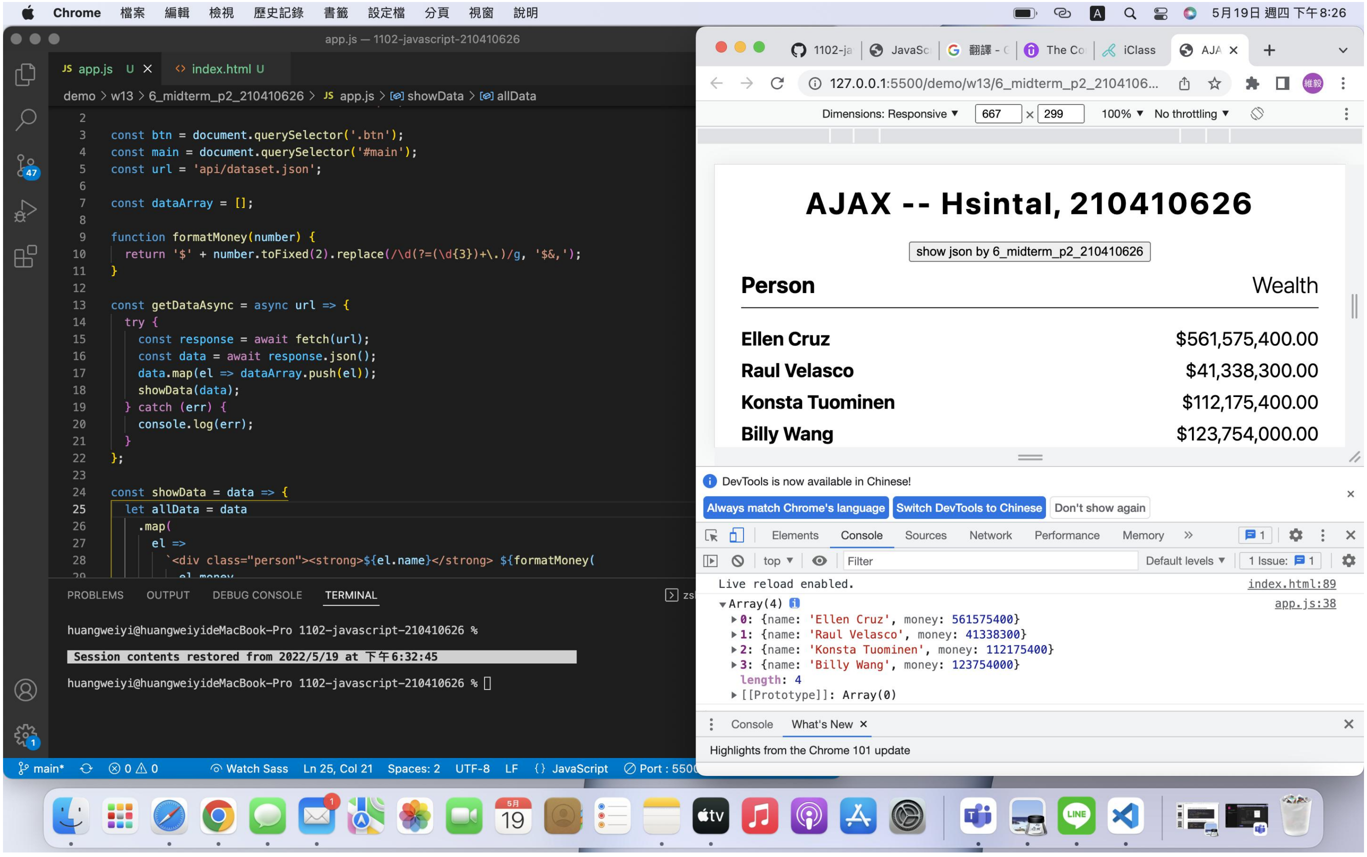
anna

susan

hsingtai

```
▼(5) [{…}, {…}, {…}, {…}, {…}]                     app.js:23
 ▶0: {name: 'john', id: 1}
 ▶1: {name: 'peter', id: 2}
 ▶2: {name: 'anna', id: 3}
 ▶3: {name: 'susan', id: 4}
 ▶4: {name: 'hsingtai', id: 5}
  length: 5
 ▶[[Prototype]]: Array(0)
```

w13-p5: w1-p5 (挑戰題)



app.js — 1102-javascript-210410626

demo > w13 > 6_midterm_p2_210410626 > app.js > showData > allData

```
const btn = document.querySelector('.btn');
const main = document.querySelector('#main');
const url = 'api/dataset.json';

const dataArray = [];

function formatMoney(number) {
  return '$' + number.toFixed(2).replace(/\d(?=(\d{3})+\.)/g, '$&,');
}

const getDataAsync = async url => {
  try {
    const response = await fetch(url);
    const data = await response.json();
    data.map(el => dataArray.push(el));
    showData(data);
  } catch (err) {
    console.log(err);
  }
};

const showData = data => {
  let allData = data
    .map(
      el =>
        `<div class="person"><strong>${el.name}</strong> ${formatMoney(
          el.money
```

```
huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %

 Session contents restored from 2022/5/19 at 下午6:32:45

huangweiyi@huangweiyideMacBook-Pro 1102-javascript-210410626 %
```

127.0.0.1:5500/demo/w13/6_midterm_p2_2104106...

Dimensions: Responsive 667 × 299 100% No throttling

AJAX -- Hsintal, 210410626

show json by 6_midterm_p2_210410626

Person	Wealth
Ellen Cruz	$561,575,400.00
Raul Velasco	$41,338,300.00
Konsta Tuominen	$112,175,400.00
Billy Wang	$123,754,000.00

DevTools is now available in Chinese!

```
Live reload enabled.                                                index.html:89
▼Array(4)                                                              app.js:38
  ▶0: {name: 'Ellen Cruz', money: 561575400}
  ▶1: {name: 'Raul Velasco', money: 41338300}
  ▶2: {name: 'Konsta Tuominen', money: 112175400}
  ▶3: {name: 'Billy Wang', money: 123754000}
   length: 4
  ▶[[Prototype]]: Array(0)
```

Highlights from the Chrome 101 update

Chrome 檔案 編輯 檢視 歷史記錄 書籤 設定檔 分頁 視窗 說明
5月19日 週四 下午8:26
app.js U
index.html U
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
main* 0 0 Watch Sass Ln 25, Col 21 Spaces: 2 UTF-8 LF JavaScript Port : 5500
Always match Chrome's language
Switch DevTools to Chinese
Don't show again
Elements Console Sources Network Performance Memory
top Filter Default levels 1 Issue: 1
Console What's New