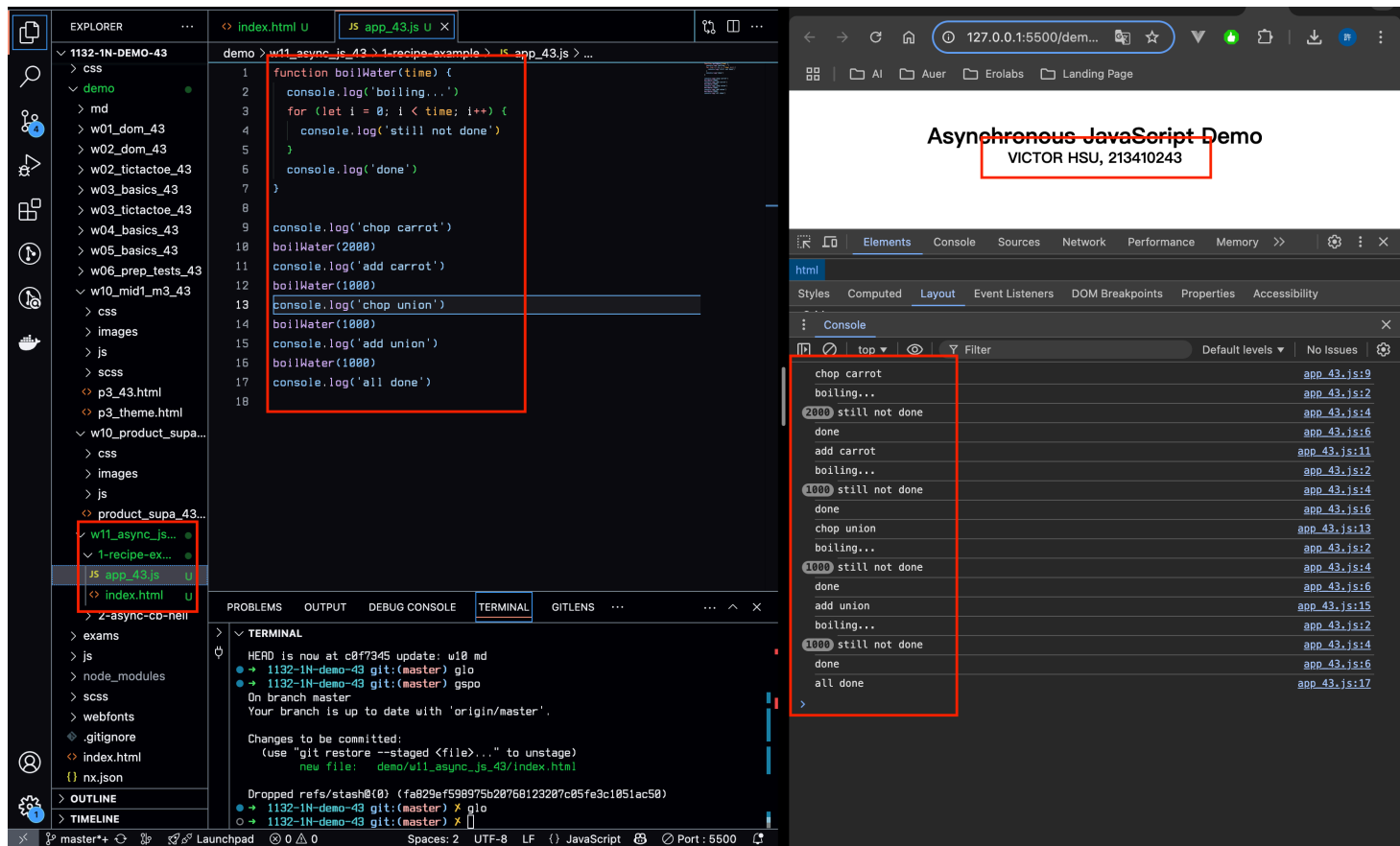


## Vercel URL

## => Synchronous demo



## => Asynchronous demo

The image shows a development environment with VS Code on the left and a web browser on the right. In VS Code, the file explorer on the left shows a project structure with files like `app_43.js` and `index.html`. The main editor displays the code in `app_43.js`, which defines a `boilWater` function using `setTimeout` to simulate asynchronous operations. The code is as follows:

```
1 function boilWater(time) {
2   console.log('boiling...')
3   setTimeout(() => {
4     console.log('add carrot')
5     console.log('boiling...')
6     setTimeout(() => {
7       console.log('done')
8       console.log('chop union')
9       console.log('boiling...')
10      setTimeout(() => {
11        console.log('done')
12        console.log('add union')
13        console.log('boiling...')
14        setTimeout(() => {
15          console.log('done')
16          console.log('all done')
17        }, 1000)
18      }, 1000)
19    }, 1000)
20  }, time)
21  console.log('done')
22 }
23
24 console.log('chop carrot')
25 boilWater(2000)
26 // console.log('add carrot')
27 // boilWater(1000)
28 // console.log('chop union')
29 // boilWater(1000)
30 // console.log('add union')
31 // boilWater(1000)
32 // console.log('all done')
33
```

The browser on the right shows the page title "Asynchronous JavaScript Demo" and the URL `127.0.0.1:5500/dem...`. The console displays the sequence of log messages: "chop carrot", "boiling...", "done", "add carrot", "boiling...", "done", "chop union", "boiling...", "done", "add union", "boiling...", "done", and "all done".

c2a057e victor\_xu

Thu May 1 19:28:01 2025 +0800

W11-P1: Synchronous vs. Asynchr

# W11-P2: Asynchronous DOM demo

The screenshot displays a web development environment with three main components:

- Code Editor:** Shows the `index.html` file with the following JavaScript code:

```
1 const heading1 = document.querySelector('.one')
2 const heading2 = document.querySelector('.two')
3 const heading3 = document.querySelector('.three')
4 const heading4 = document.querySelector('.four')
5
6 const btn = document.querySelector('.btn')
7
8 btn.addEventListener('click', () => {
9   setTimeout(() => {
10     heading1.style.color = 'red'
11     setTimeout(() => {
12       heading2.style.color = 'green'
13       setTimeout(() => {
14         heading3.style.color = 'blue'
15         setTimeout(() => {
16           heading4.style.color = 'purple'
17         }, 500)
18       }, 1000)
19     }, 2000)
20   }, 1000)
21 })
22
```
- Browser:** Displays the rendered page titled "Asynchronous JavaScript Demo". It features a red-bordered box containing the text:

VICTOR HSU, 213410243

hello world

hello people

hello Javascript

hello Async JS

click me
- Terminal:** Shows the output of the following commands:

```
git restore --staged <file>... to unstage
new file: demo/w11_async_js_43/index.html
Dropped refs/stash@{0} (fa829ef598975b20768123207c05fe3c1051ac58)
1132-IN-demo-43 git:(master) X glo
1132-IN-demo-43 git:(master) X ga demo/w11_async_js_43
1132-IN-demo-43 git:(master) X gcm 'W11-P1: Synchronous vs. Asynchronous'
[master c2a057e] W11-P1: Synchronous vs. Asynchronous
4 files changed, 85 insertions(+)
create mode 100644 demo/w11_async_js_43/1-recipe-example/app_43.js
create mode 100644 demo/w11_async_js_43/1-recipe-example/index.html
create mode 100644 demo/w11_async_js_43/2-async-cb-hell/app_43.js
create mode 100644 demo/w11_async_js_43/2-async-cb-hell/index.html
1132-IN-demo-43 git:(master) X
```

d40d35b victor\_xu

Thu May 1 19:54:24 2025 +0800

W11-P2: Asynchronous DOM demo

# W11-P3: Use Promise to do W11-P2

The screenshot displays a web development environment with a code editor on the left and a browser on the right. The code editor shows a file named `app_43.js` with the following JavaScript code:

```
1 const heading1 = document.querySelector('.one')
2 const heading2 = document.querySelector('.two')
3 const heading3 = document.querySelector('.three')
4 const heading4 = document.querySelector('.four')
5
6 const btn = document.querySelector('.btn')
7
8 const addColor = (t, e, color) => {
9   return new Promise((resolve, reject) => {
10     if (e) {
11       setTimeout(() => {
12         e.style.color = color
13         resolve()
14       }, t)
15     } else {
16       reject(new Error('there is no such element $e'))
17     }
18   })
19 }
20
21 btn.addEventListener('click', () => {
22   addColor(1000, heading1, 'red')
23   .then(() => {
24     return addColor(2000, heading2, 'green')
25   })
26   .then(() => {
27     return addColor(1000, heading3, 'blue')
28   })
29   .then(() => {
30     return addColor(500, heading4, 'purple')
31   })
32   .catch(console.error)
33 })
34
```

The browser window shows the title "Asynchronous JavaScript Demo" and the author "VICTOR HSU, 213410243". The page content displays the following text:

hello world  
hello people  
hello Javascript  
hello Async JS

A "click me" button is visible at the bottom of the text area. The browser's developer tools are open, showing the "Elements" panel with the HTML structure:

```
<!DOCTYPE html>
<html lang="en">
  <head>
    </head>
  <body>
    </body>
</html>
```

The "Console" panel is also open, showing no errors.

f3b65e4 victor\_xu

Thu May 1 20:22:38 2025 +0800

W11-P3: Use Promise to do W11-P

# W11-P4: Use Async Await to do W11-P3

The screenshot displays a web development environment with a code editor, a file explorer, and a browser window.

**File Explorer:** The file explorer on the left shows a project structure. The file `5-dom-promise` is selected, and its contents are displayed in the code editor.

**Code Editor:** The code editor shows the following JavaScript code:

```
5
6 const btn = document.querySelector('.btn')
7
8 const addColor = (t, e, color) => {
9   return new Promise((resolve, reject) => {
10     if (e) {
11       setTimeout(() => {
12         e.style.color = color
13         resolve()
14       }, t)
15     } else {
16       reject(new Error('there is no such element $(e)'))
17     }
18   })
19 }
20
21 const displayColor = async () => {
22   try {
23     await addColor(1000, heading1, 'red')
24     await addColor(2000, heading2, 'green')
25     await addColor(1000, heading3, 'blue')
26     await addColor(500, heading4, 'purple')
27   } catch (error) {
28     console.error(error)
29   }
30 }
31
32 btn.addEventListener('click', async () => {
33   const result = await displayColor()
34   console.log('result', result)
35 })
```

**Browser Window:** The browser window shows the rendered page titled "Asynchronous JavaScript Demo". The page displays the following text:

VICTOR HSU, 213410243

hello world

hello people

hello Javascript

hello Async JS

A "click me" button is visible at the bottom of the text area.

**Console:** The console at the bottom shows the output of the code:

```
result undefined
app_43.js:34
```

971d9fd victor\_xu

Thu May 1 20:39:18 2025 +0800

W11-P4: Use Async Await to do W

# W11-P5: Change GitHub repo name, and Vercel URL

=> GitHub

The screenshot shows the GitHub repository page for 'vic0627 / 1132-1N-demo-victor-43'. The repository name '1132-1N-demo-victor-43' is highlighted with a red box. The 'About' section on the right also has a red box around the link '1132-1n-demo-victor-43.vercel.app'. The file list on the left includes 'css', 'demo', 'exams', 'js', 'scss', 'webfonts', '.gitignore', 'README.md', 'index.html', 'nx.json', and 'package.json'.

=> Vercel

The screenshot shows the Vercel dashboard for the project '1132-1n-demo-victor-43'. The project name is highlighted with a red box. The 'Production Deployment' section shows a deployment for '1132-1n-demo-43-avmi217fm-vic0627s-projects.vercel.app'. The 'Domains' section lists '1132-1n-demo-victor-43.vercel.app' with a red box around it. The deployment status is 'Ready' and the source is 'master'.

# W11-logs: git logs of W11

vic0627 / 1132-1N-demo-victor-43

Q

Type / to search

<>

Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Commits

master

All users

All time

Commits on May 1, 2025

W11-P4: Use Async Await to do W11-P3

victor\_xu committed 13 minutes ago · 0 / 1

971d9fd

<>

W11-P3: Use Promise to do W11-P2

victor\_xu committed 30 minutes ago

f3b65e4

<>

W11-P2: Asynchronous DOM demo

victor\_xu committed 1 hour ago

d48d35b

<>

W11-P1: Synchronous vs. Asynchronous

victor\_xu committed 1 hour ago

c2a057e

<>

Commits on Apr 27, 2025

update: w10 md

vic0627 committed 4 days ago · 1 / 1

c0f7345

<>

W10-P4: Upload 12 images to Supabase storage and show these remote images

vic0627 committed 4 days ago · 1 / 1

b3e5867

<>

W10-P3: Get 12 products from Supabase

vic0627 committed 4 days ago

df4be01

<>

W10-P2: Setup Supabase with project yourcode\_1n\_43

vic0627 committed 4 days ago

3927a6c

<>