

Async/Await in React (Advanced)

You'll work with asynchronous data often in React, so it's good to know alternative syntax for handling promises: `async/await`. The following refactoring of the `handleFetchStories` function without error handling shows how:

```
const App = () => {  
  ...  
  
  const handleFetchStories = React.useCallback(async () => {  
  
    dispatchStories({ type: 'STORIES_FETCH_INIT' });  
  
    const result = await axios.get(url);  
  
    dispatchStories({  
      type: 'STORIES_FETCH_SUCCESS',  
      payload: result.data.hits,  
    });  
  
  }, [url]);  
  
  ...  
};
```

src/App.js

To use `async/await`, our function requires the `async` keyword. Once you start using the `await` keyword, everything reads like synchronous code. Actions after the `await` keyword are not executed until promise resolves, meaning the code will wait.

```
const App = () => {  
  ...  
  
  const handleFetchStories = React.useCallback(async () => {  
    dispatchStories({ type: 'STORIES_FETCH_INIT' });  
  
    try {  
      const result = await axios.get(url);
```

```
src/App.js
```

To include error handling as before, the `try` and `catch` blocks are there to help. If something goes wrong in the `try` block, the code will jump into the `catch` block to handle the error. `then / catch` blocks and `async/await` with `try / catch` blocks are both valid for handling asynchronous data in JavaScript and React.

```

0000  ä F   )   9 5 @ ° n PNG
IHDR   (-S  äPLTE""""""""2PX=r)7;*:>H¤-BGE8do5Xb6[eK®K`1MU
IHDR   ×@ÎÊ ePLTE""""""""2RZN¢¹J«3R(J-)59YÁbØKS4W`Q«ÄL?%
?^q÷ñíÛï.},isæÝ_TttÔ% 1#□/(ì□-[□□è`□è`ÌÒÚíÅðZ□d5□□□?îebZ¿P□i.Üæ□□□ìqî□+1°}Â5
IHDR   D¤Æ APLTE """"""""2RZVºÖ_ÔöU·Ñ=r$()')25]îíc□□
IHDR  @ @□ □.□ì □:PLTE """"""""
ßqç8Ù□´mKE±m£mÜü.yi!è°î¥Yiuë Äî_Äî?i÷□ý+ð□□ÄA□|□ù{□□´¿□_En□).□JED¤x□
0-çZ\TsOR*(□ ´©JJ□□□u□X/□4J□9□¡5·DEµ4kÇ4□&i¥v4Ú□¡Ð□□´vsf:àg,□çèBC»i$J□°îúí□□á□@
-e>û□°«çXõçí}\ß``ëÜÑ:□Äön´□øVÁv´î v1 □ë×ÄO@gv/Äb □ö\ô□C\í.□□%+0□□:□□□!□fê□!´óÅ JY·O□Ä□'

```

Exercises:

- Confirm the [changes from the last section](#).
- Read more about [data fetching in React](#).
- Read more about [async/await in JavaScript](#).