

# **Co možná nevíte o React Dev Tools**



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## Software Engineer @ Outreach

- [jukben.codes](https://jukben.codes)
- [github.com/jukben](https://github.com/jukben)

# Agenda

1. (Ne)zábavná teorie
2. Live demo



Čenglish

Bůh dal lidem kód, d'ábel debugger.

– ChatGPT 3.5



```
function MyButton() {  
    return <button>I'm a button</button>;  
}  
debugger;
```

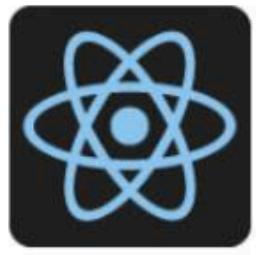
A stylized illustration of a man in a dark suit and tie, looking slightly upwards and to the right. He has short, dark hair with a small red streak. Numerous green US dollar bills are falling from the top left towards him, some landing on his shoulder and others floating in the air. The background is a solid dark blue.

**efektivní debugování = profit**

```
function somethingCrazy() {  
    let result = "";  
  
    for (let i = 0; i < 5; i++) {  
        if (i === 0 || i === 1) {  
            for (let j = 0; j < 2; j++) {  
                console.log("tady jssem");  
                result += i === 1 ? "e" : "r";  
            }  
        } else if (i === 2) {  
            result += "a";  
        } else if (i === 3) {  
            result += "c";  
        } else if (i === 4) {  
            result += "t";  
        }  
    }  
  
    return result;  
}
```



Někdy je třeba trochu  
těžkotonáznější  
technika



# React Developer Tools

Featured



1,434

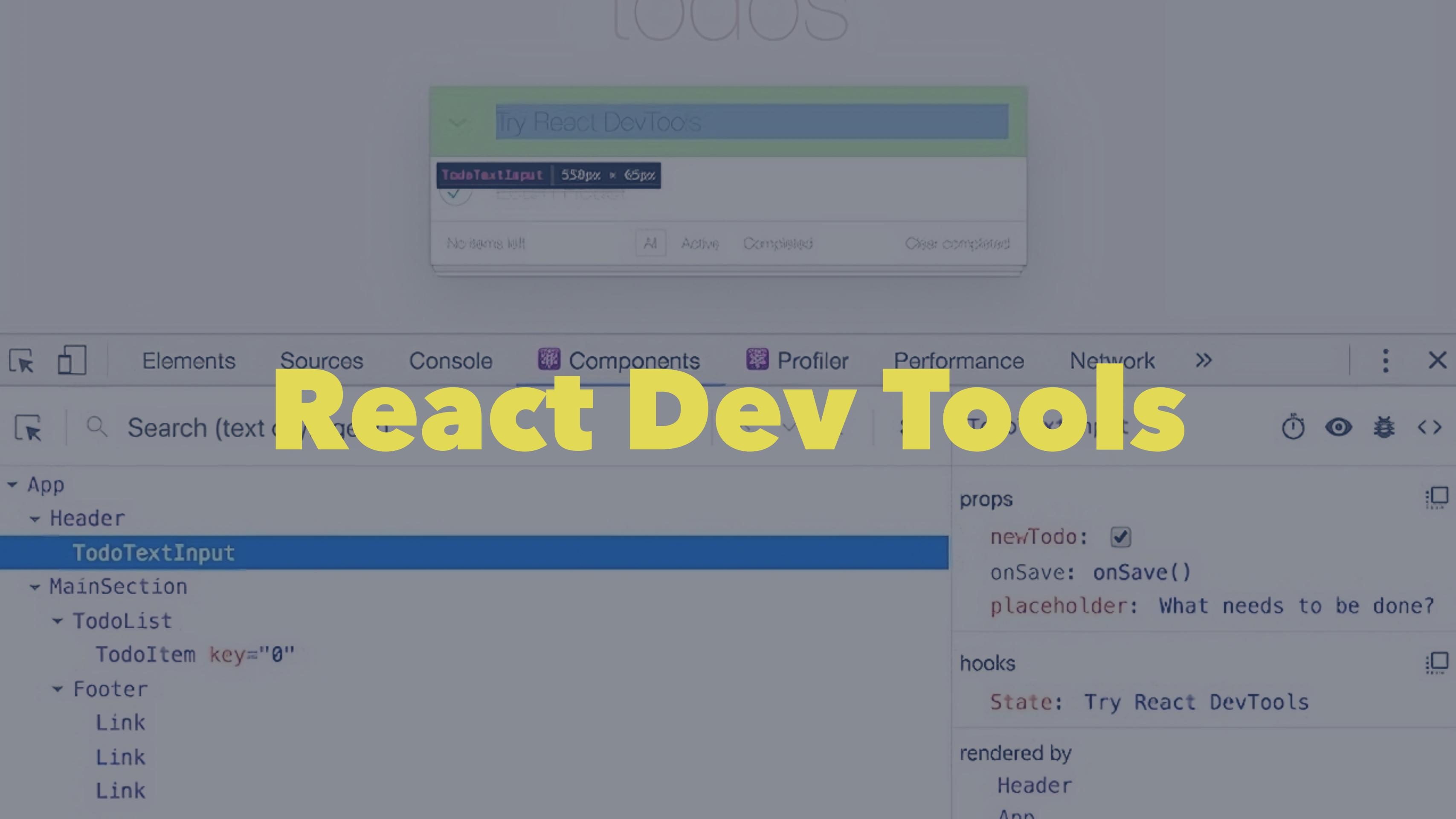


[Developer Tools](#)

4,000,000+ users

# Co pro to potřebujeme?

- Bežet aplikaci v **Dev mode** 
- Defaultní podpora v Create React App, Next.js,...
- ESBUILD (jsxDev)
- Babel (@babel/preset-react)



# React Dev Tools

# Trochu React teorie

# Úvod do JSX

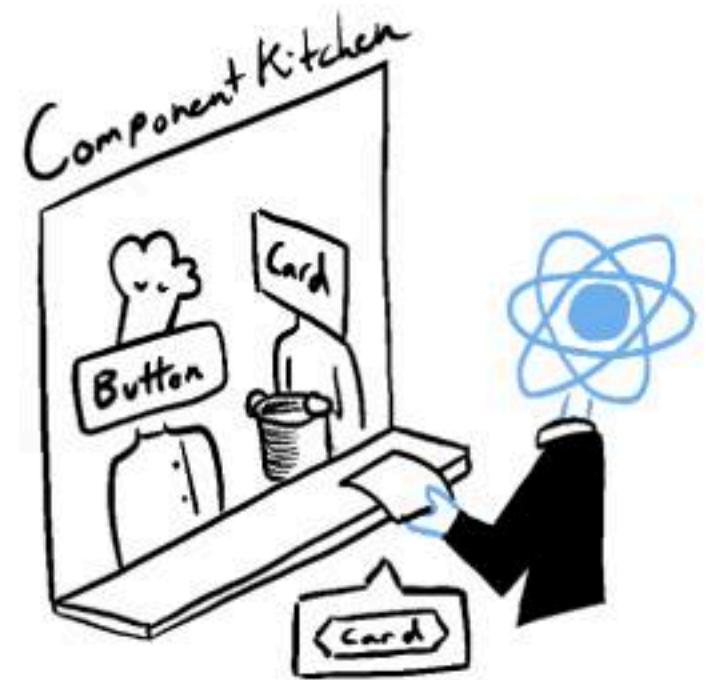
```
function App() {  
  return <h1>Hello World</h1>;  
}
```

```
import { jsxDev as _jsxDev } from "react/jsx-runtime";

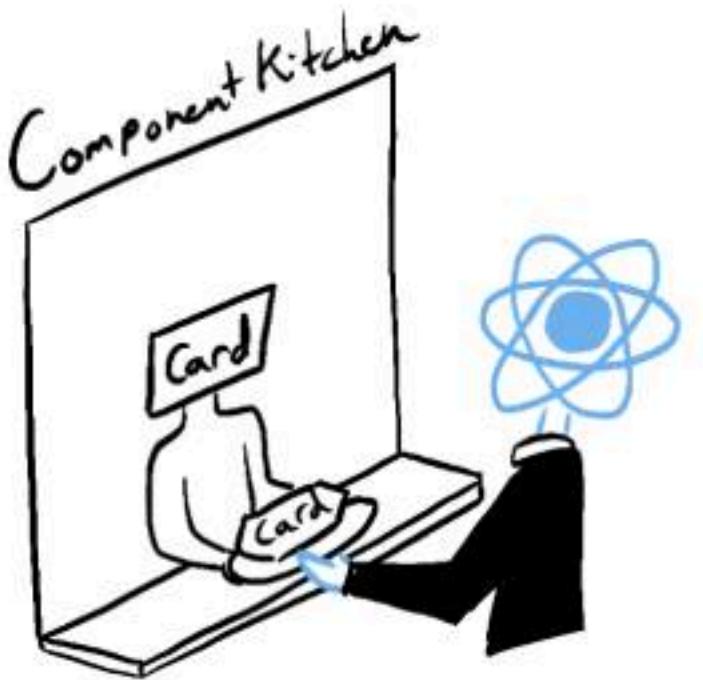
function App() {
  return _jsxDev(
    "button",
    { children: "I'm a button" },
    void 0,
    false,
    {
      fileName: _jsxFileName,
      lineNumber: 1,
      columnNumber: 1,
    },
    this
  );
}
```

<https://reactjs.org/blog/2020/09/22/introducing-the-new-jsx-transform.html>

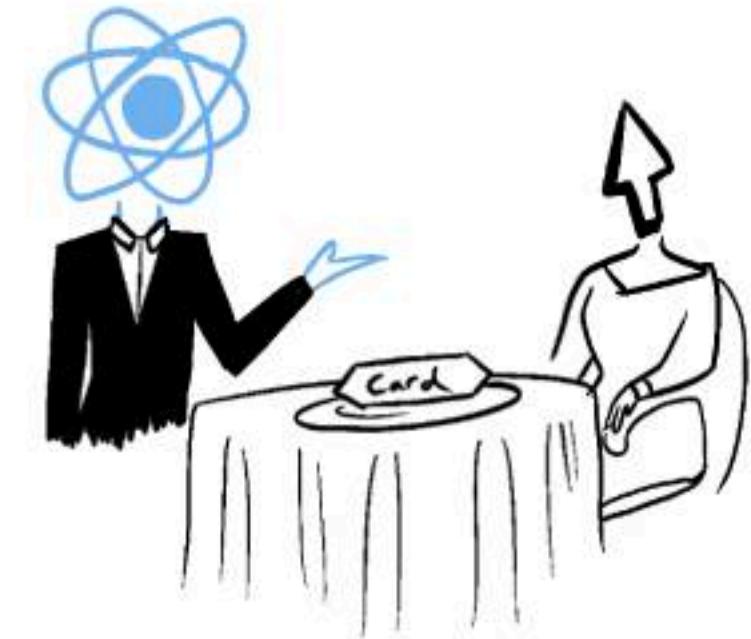
# Render a Commit



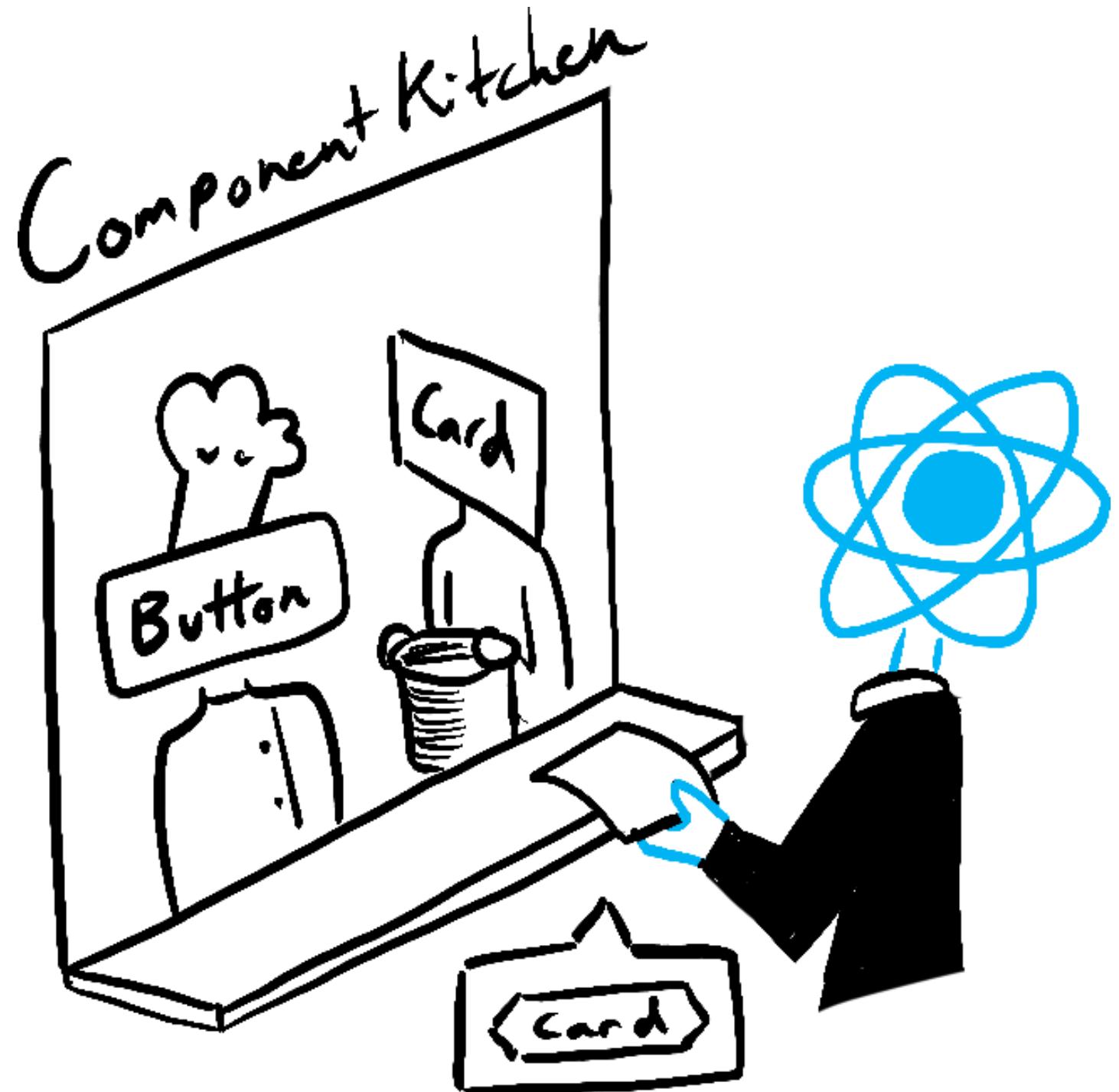
Trigger



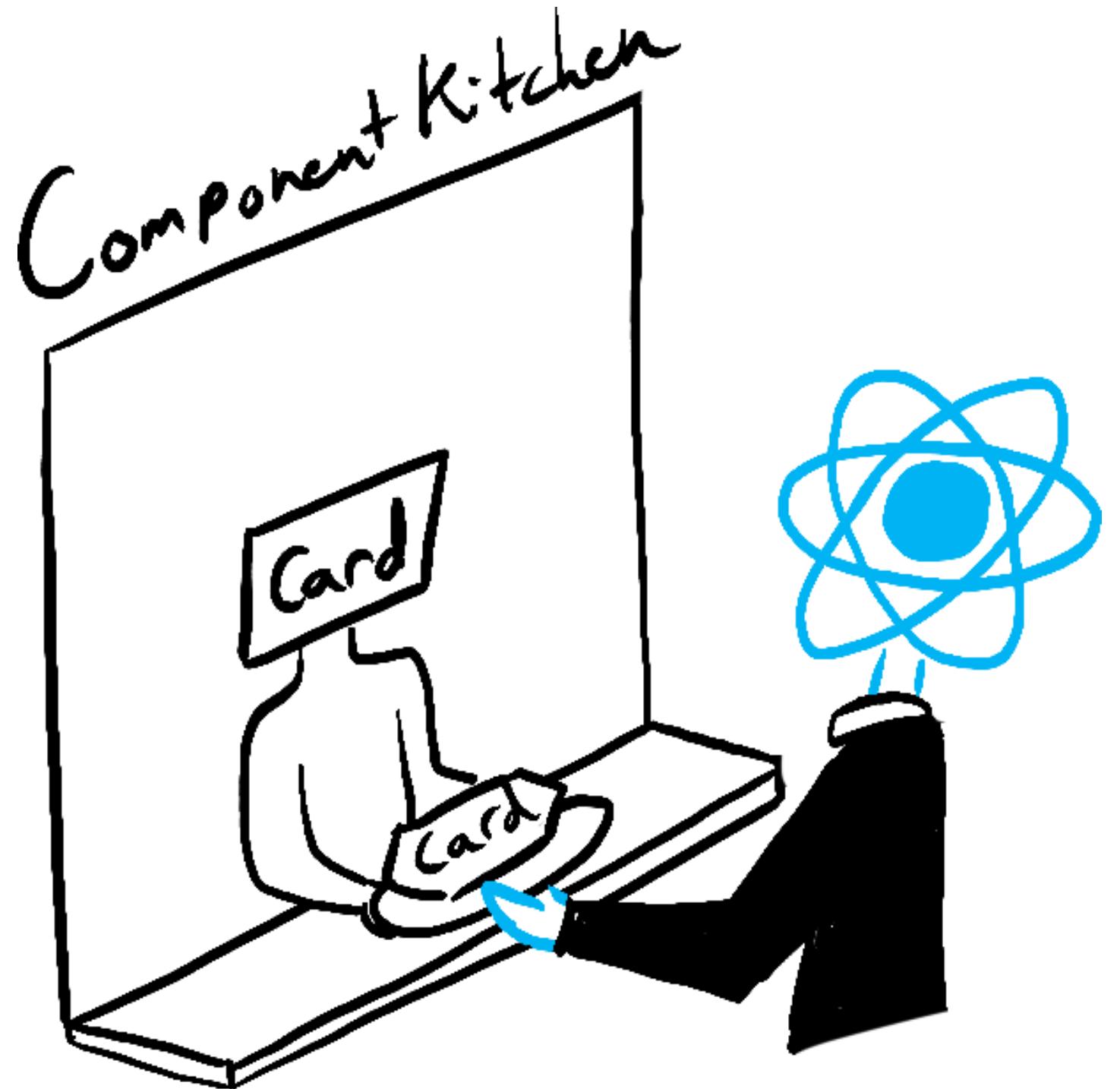
Render



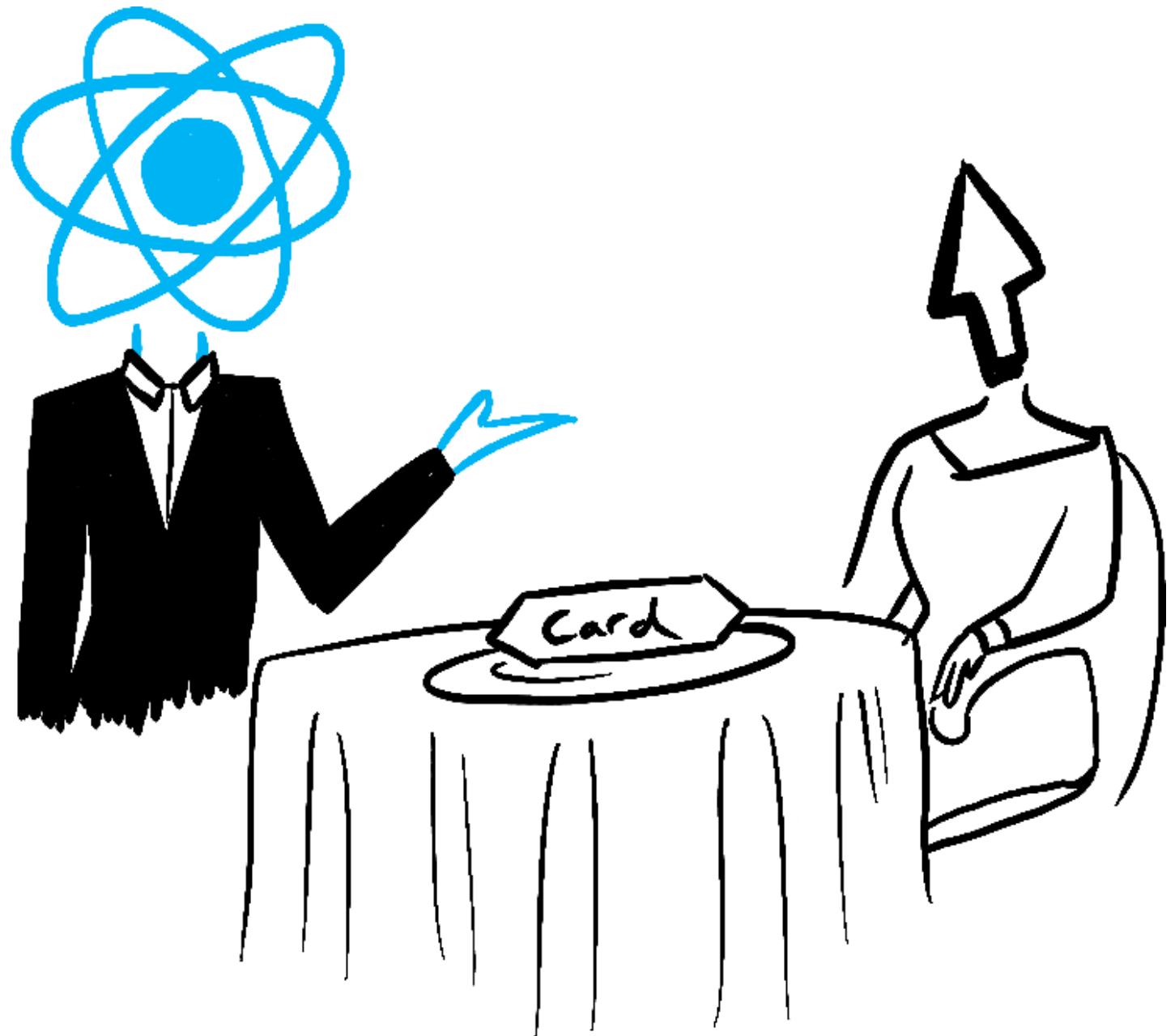
Commit



- **Triggering** a render  
(delivering the guest's order to the kitchen)
  - It's the component's initial render.
  - The component's (or one of its ancestors') state has been updated.  
Re-renders when state updates



- **Rendering** the component (preparing the order in the kitchen)
  - On initial render, React will call the root component.
  - For subsequent renders, React will call the function component whose state update triggered the render.



- **Committing** to the DOM  
(placing the order on the table)
  - For the initial render, React will use the `appendChild()` DOM API to put all the DOM nodes it has created on screen.
  - For re-renders, React will apply the minimal necessary operations (calculated while rendering!) to make the DOM match the latest rendering output.



# (React) Dev Tools to nekončí

# Díky! 🙌

## Q&A

# Resources

- [React Developer Tools](#)
- [Chrome DevTools](#)
- [LocatorJS](#)
- [Create React App](#)
- <https://react.dev/learn/render-and-commit>
- <https://react.dev/learn/react-developer-tools>
- <https://github.com/jukben/todo-react>