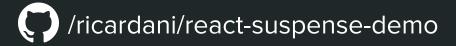
# Let's get lazy with React

A look into React newer features



# react@experimental react-dom@experimental

Strict Mode

**Error Boundaries** 

**Code Splitting** 

Strict Mode

**Error Boundaries** 

Code Splitting

Suspense for Data Fetching



Strict Mode

**Error Boundaries** 

**Code Splitting** 



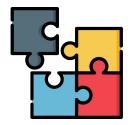
Suspense for Data Fetching





**Error Boundaries** 

**Code Splitting** 

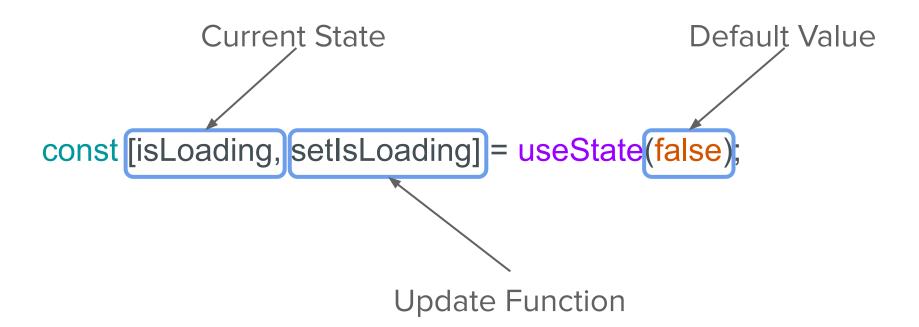




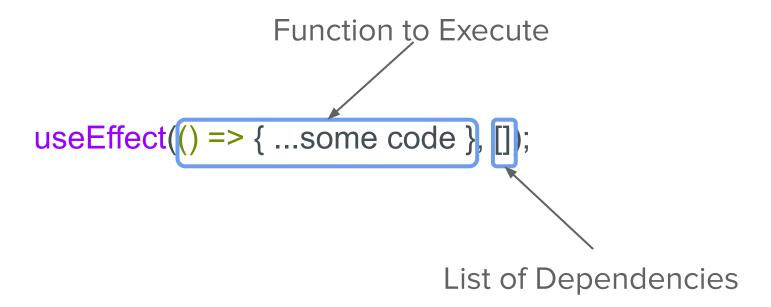
Suspense for Data Fetching



const [isLoading, setIsLoading] = useState(false);



```
useEffect(() => { ...some code }, []);
```



# Demo Project

# Strict Mode

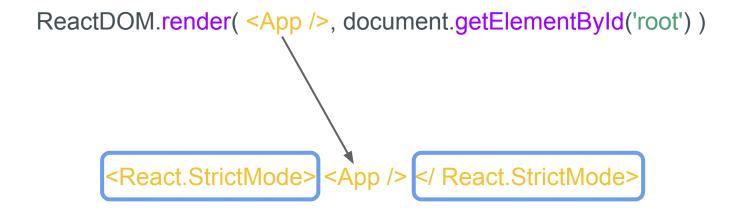
#### Strict Mode

## **Highlights Potential Problems**

Unsafe Lifecycles

Legacy and Deprecated Code

#### Strict Mode



# What happens when an error occurs inside of a component?

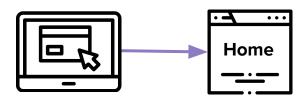
```
// These functions are called when an error has been thrown in a child component
static getDerivedStateFromError(error) {
 // Returns a new state
componentDidCatch(error, errorInfo) {
  // Used to log more information about the error
```

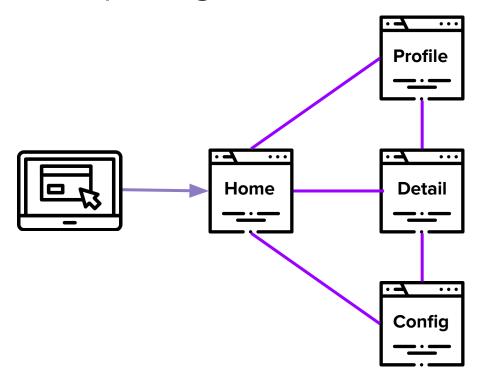
```
// These functions are called when an error has been thrown in a child component
static getDerivedStateFromError(error) {
 // Returns a new state
componentDidCatch(error, errorInfo) {
                                                 No Hook Version
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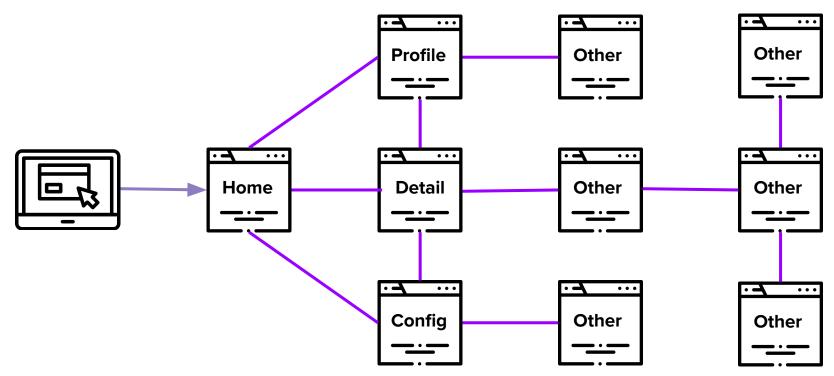
Why should we use code splitting?







https://reactjs.org/docs/code-splitting.html

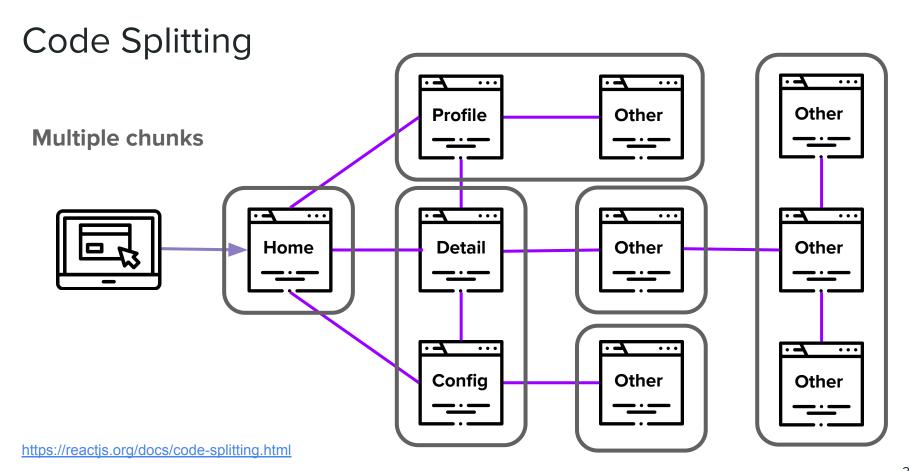


https://reactjs.org/docs/code-splitting.html

Code Splitting **Other Profile** Other Single bundle Other Home **Detail Other** Config **Other** Other https://reactjs.org/docs/code-splitting.html

Code Splitting **Other Profile** Other Single bundle Other Home **Detail Other** Config **Other** Other https://reactjs.org/docs/code-splitting.html

Code Splitting **Profile Other** Other Single bundle Other Home **Detail Other** Config **Other** Other https://reactjs.org/docs/code-splitting.html



How do you do it?

# Cons

## Cons

- Handling lazy components
- A request for each chunk
- More Loading screens

Cons Pros

- Handling lazy components
- A request for each chunk
- More loading screens

## Cons

- Handling lazy components
- A request for each chunk
- More loading screens

## Pros

- Reduced bundle size
- Faster first page impression



# Suspense for Data Fetching

# Suspense for Data Fetching



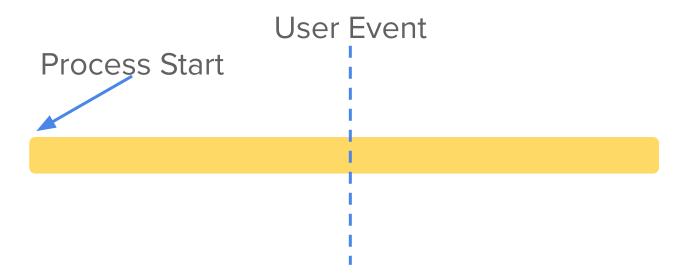
# Why not use Suspense for data fetching?



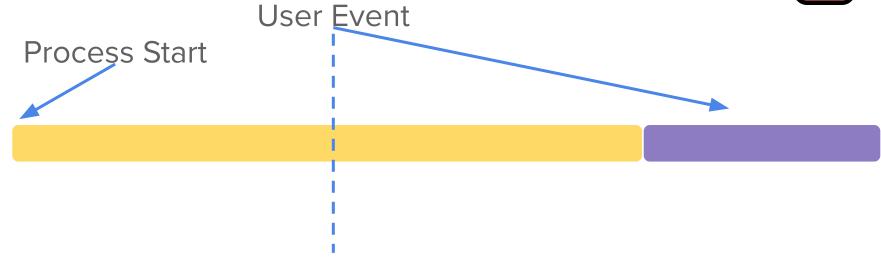


Process Start

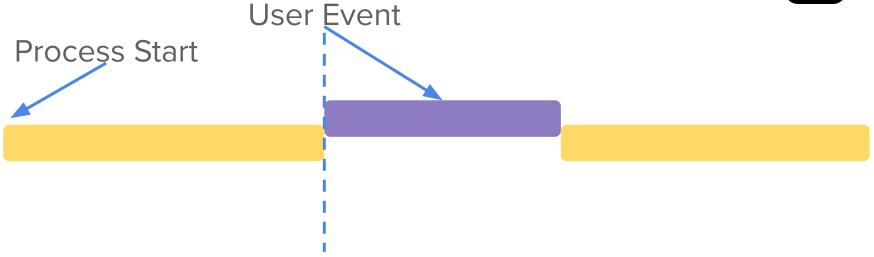














Can work on multiple tasks and switch between them

Can partially render a tree without committing the result

Does not block the main thread



ReactDOM.render( < App />, document.getElementById('root') )



Enable Concurrent Mode

ReactDOM.createRoot( document.getElementById('root') ).render( <App /> )



SuspenseList

useTransition

useDeferredValue

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