## **Preventing Unnecessary Renders**

Let's optimize our code!

WE'LL COVER THE FOLLOWING ^

• Memoizing The Callback

• Quick Quiz!

## Memoizing The Callback #

toggle acts as a callback function and it'll eventually be invoked by Expandable. Header. Let's prevent any future performance issues by memoizing the callback.

Not sure how useCallback works? Have a look at this cheatsheet.

Once we have both expanded and toggle created, we can expose these via the Provider's value prop.

```
import React, { createContext, useState, useCallback } from 'react'
const ExpandableContext = createContext()
```

This works, but the value reference will be different on every re-render causing the Provider to re-render its children.

Let's memoize the value.

we pass an array dependency [expanded, toggle] . This means that the memoized value remains the same unless the dependencies change.

We've done a great job so far!

## Quick Quiz! #

Before we move on, let's take a quick quiz on what we've covered so far!

1	What does memoization do in React?					
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In the next lesson, we'll discuss an approach for avoiding unnecessary state callbacks.