

# Your Next Week

Tuesday June 30

*6:30 PM*

- **DUE Class 27 Lab**
- **DUE Class 27 Code Challenge**
- **DUE Class 28 Reading**
- **Class 28A**

Wednesday July 1

*6:30 PM*

- **Class 28B**

*MIDNIGHT*

- **DUE Class 28 Learning Journal**

Thursday July 2

*6:30 PM*

- **Co-working**

Friday July 3

Saturday July 4

- **HOLIDAY: NO CLASS**

Sunday July 5

*MIDNIGHT*

- **DUE CCW #2 Job Search, Interviews, Offers**
- **DUE CCW #2 Mock Interviews**
- **DUE Class 28 Feedback**

Monday July 6

Tuesday July 7

*6:30 PM*

- **DUE Class 28 Lab**
- **DUE Class 28 Code Challenge**
- **DUE Class 29 Reading**
- **Class 29A**

# What We've Covered

<i>Module 01</i> Javascript Fundamentals and Data Models  <i>C01 — Node Ecosystem, TDD, CI/CD</i> <i>C02 — Classes, Inheritance, Functional Programming</i> <i>C03 — Data Modeling &amp; NoSQL Databases</i> <i>C04 — Advanced Mongo/Mongoose</i> <i>C05 — DSA: Linked Lists</i>	<i>Module 02</i> API Servers  <i>C06 — HTTP and REST</i> <i>C07 — Express</i> <i>C08 — Express Routing &amp; Connected API</i> <i>C09 — API Server</i> <i>C11 — DSA: Stacks and Queues</i>	<i>Module 03</i> Auth/Auth  <i>C10 — Authentication</i> <i>C12 — OAuth</i> <i>C13 — Bearer Authorization</i> <i>C14 — Access Control (ACL)</i> <i>C15 — DSA: Trees</i>	<i>Module 04</i> Realtime  <i>C16 — Event Driven Applications</i> <i>C17 — TCP Server</i> <i>C18 — Socket.io</i> <i>C19 — Message Queues</i> <i>C20 — Midterms Prep</i>  <i>Midterms</i>
<i>Module 05</i> React Basics  <i>C21 — Component Based UI</i> <i>C22 — React Testing and Deployment</i> <i>C23 — Props and State</i> <i>C24 — Routing and Component Composition</i> <i>C25 — DSA: Sorting and HashTables</i>	<i>Module 06</i> Advanced React  <i>C26 — Hooks API</i> <i>C27 — Custom Hooks</i> <b>C28 — Context API</b> <i>C29 — Application State with Redux</i> <i>C30 — DSA: Graphs</i>	<i>Module 07</i> Redux State Management  <i>C31 — Combined Reducers</i> <i>C32 — Asynchronous Actions</i> <i>C33 — Additional Topics</i> <i>C34 — React Native</i> <i>C35 — DSA: Review</i>	<i>Module 08</i> UI Frameworks  <i>C36 — Gatsby and Next</i> <i>C37 — JavaScript Frameworks</i> <i>C38 — Finals Prep</i>  <i>Finals</i>

# Lab 27 Review

# Code Challenge 27

## Review

# Class 28

---

## Context API

seattle-javascript-401n16



# What is Context?

- What “`this`” refers to
  - The class
  - The function
  - The object
- In the case of React, we usually need “`this`” for referring to “`this.state`” in classes
- React has an actual Context object we can create, which lets us share state in a new way!





# The Problem

- The current only way to share state is to pass `Parent` -> `Child` props
- This can be tedious if there is a long chain of descendants that need that state:

`A` (provides state) ->

`B` (sends state) ->

`C` (sends state) ->

`D` (consumes state)

- Wouldn't it be nice if you could just have the state sent to all descendants automatically?

`A` (provides state) ->

`B` -> `C` -> `D` (consumes state)





# Why is this Useful?

- It allows you to create global settings / theme variables
- Any component can access things like local language, theme color, etc without you having to pass down so many props
- Allows for cleaner sharing of stateful data
  - Values passed DON'T have to be stateful though!
- You can have multiple contexts! One for theme colors, one for language, etc





# UseContext

```
const value = useContext(myContext);
```

- Here, `value` is going to be whatever you set the Provider's `value` prop to be (usually `this.state`)
- `myContext` is the `React.CreateContext()` initially created (usually in the same file as the Provider)

# Lab 28 Overview