Jan 28, 2022

# Context

provides  a way to pass data through the component tree

# Today's Agenda

1. Introduction to the Session
2. Let's understand context
3. Hands on
4. Summary and Q&A

# Introduction

I'm Anil, the facilitator for this session.

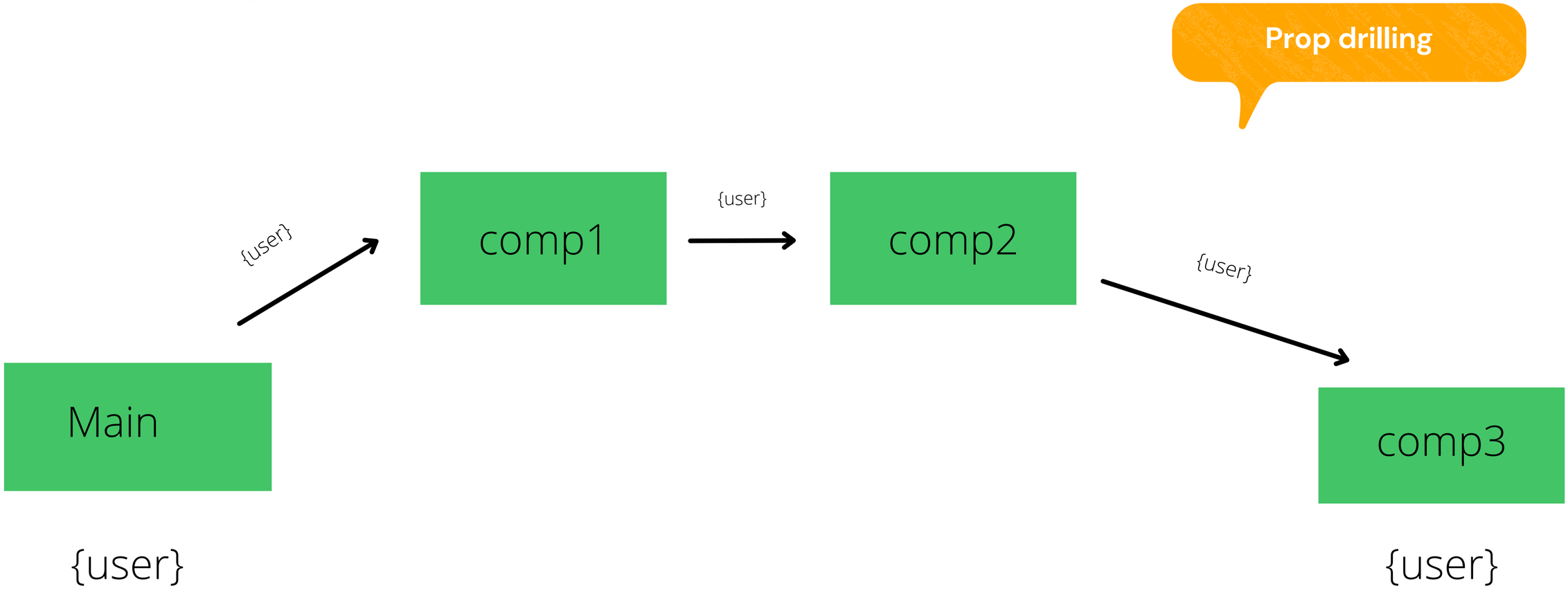
The goal of our session is to turn chaos into clarity. As facilitators, our role is to keep the session on track and to ensure everyone participates in the discussion.

Anil

Are you ready?

# Let's Begin!

# Problem Statement:



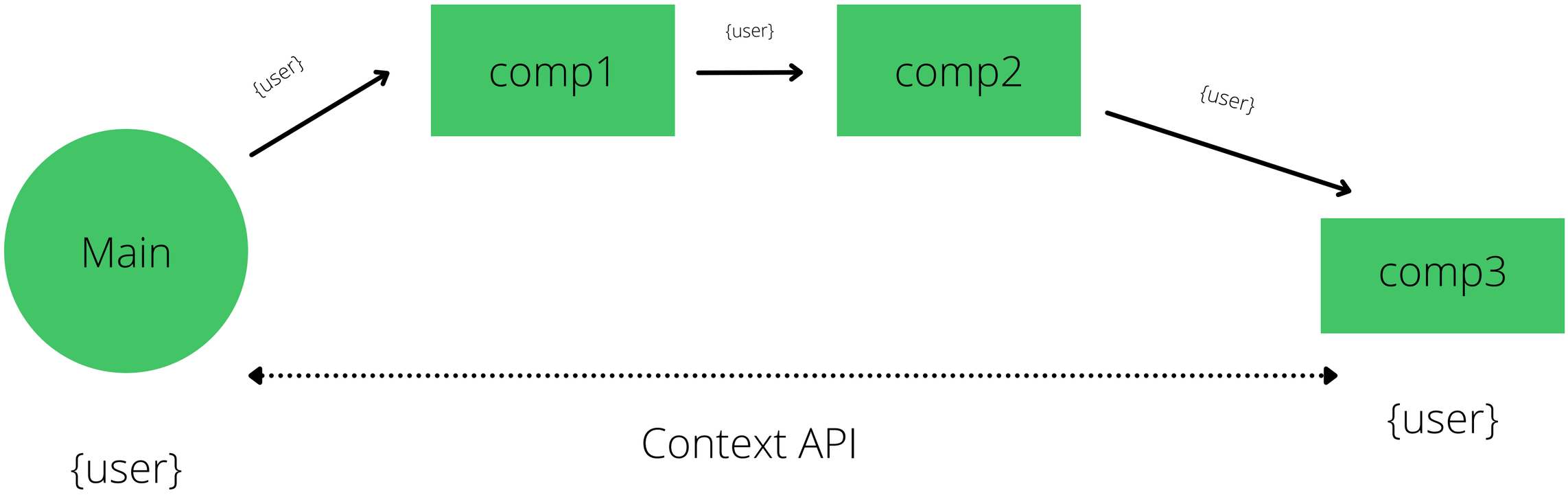
global state
theme
application configuration
authenticated user name
user settings
preferred language
a collection of services

Prop Drilling

```
Main  --> user = {name: 'anil'} return <Component1 user={user} />


<Component1 user={user} />
// ... which renders ...

    <Component2 user={user} />
        // ... which renders ...

            <Component3>
                {user.name}
```

# Solution:

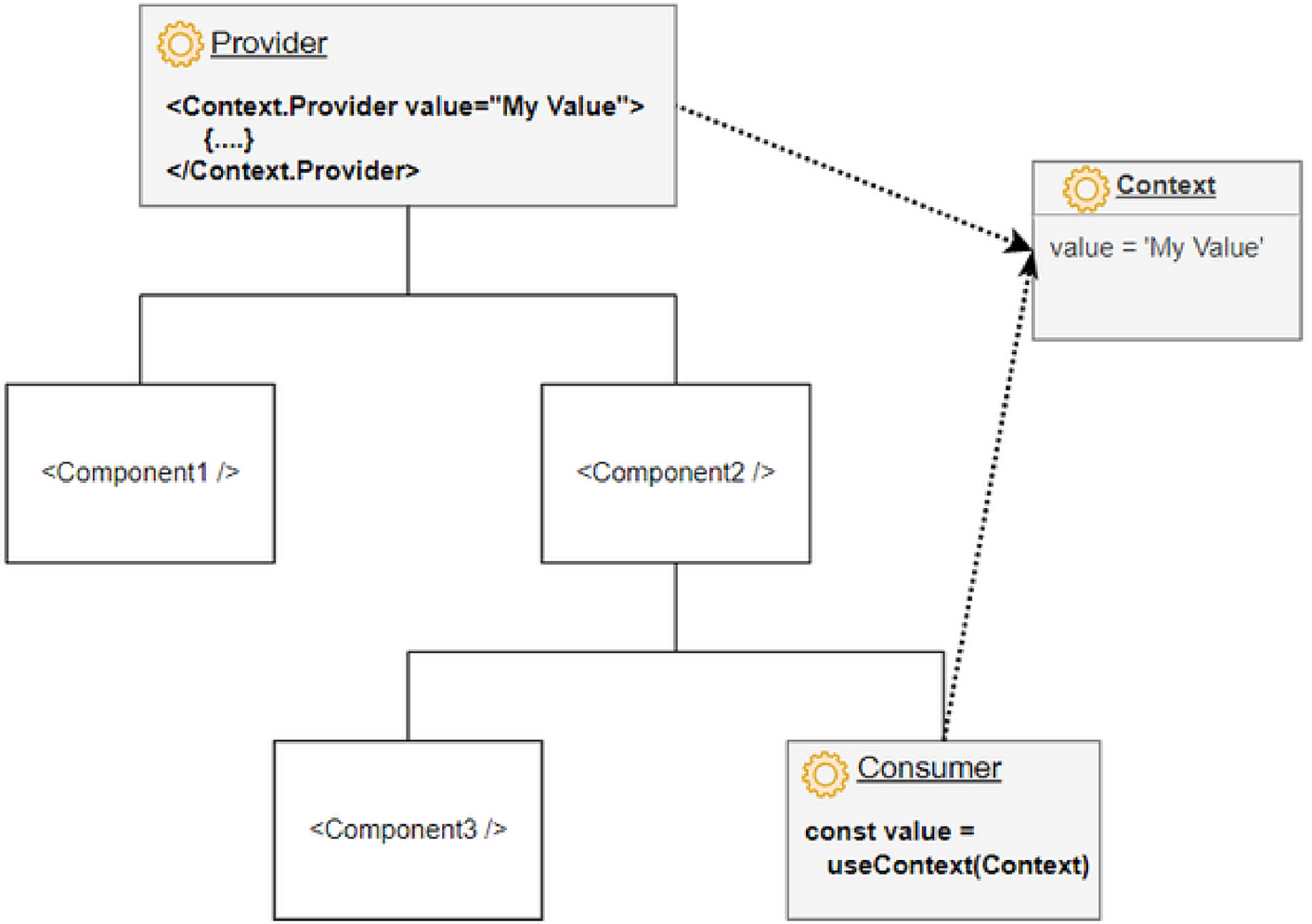
Context API



Context provides a way to pass data through the component tree without having to pass props down manually at every level.

— reactjs.org

# React Context



Context API

```jsx
const UserContext = React.createContext('anil');

class Main extends React.Component {
  render() {
    return (
      <UserContext.Provider value="anil">
        <Comp1 />
      </UserContext.Provider>
    );
  }
}

function Comp1() {
  return (
    <div>
      <Comp2 />
    </div>
  );
}

class Comp2 extends React.Component {
  static contextType = UserContext;
  render() {
    return <button name={this.context} />;
  }
}
```

# API

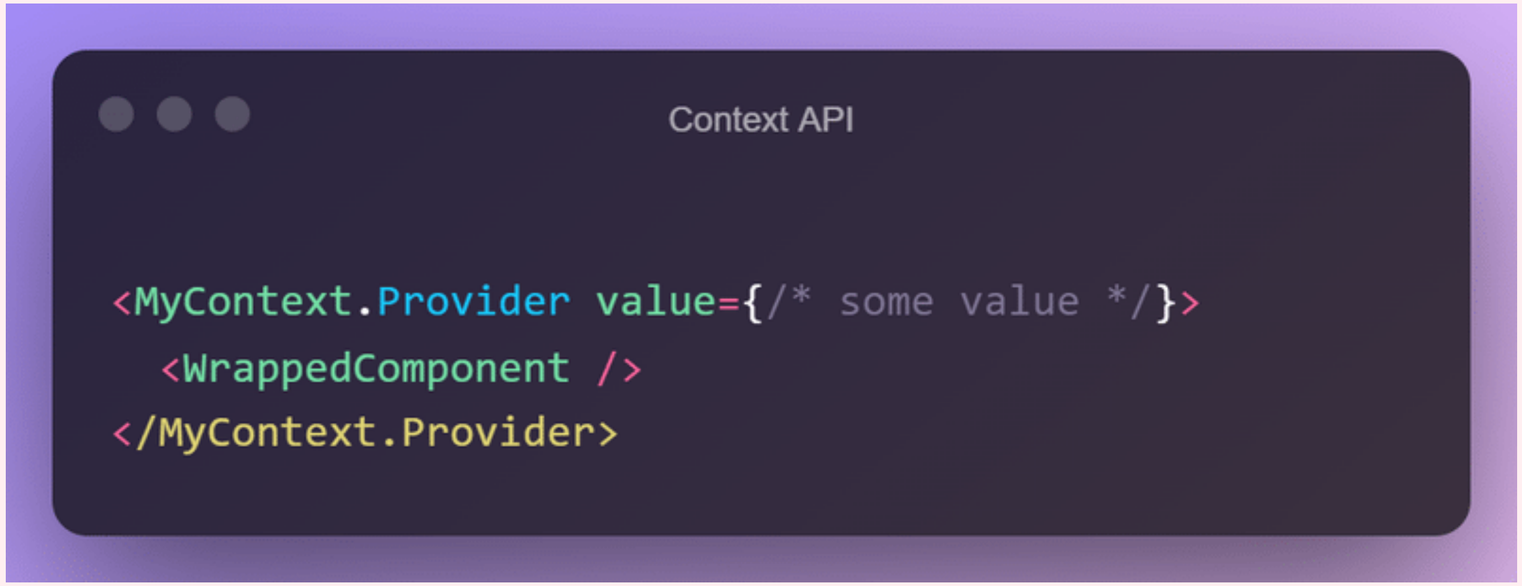
- React.createContext
- Context.Provider
- Context.Consumer
- Context.displayName

# CREATE

- Creates a Context object. When React renders a component that subscribes to this Context object it will read the current context value from the closest matching Provider above it in the tree.

# PROVIDE

- The Provider component accepts a value prop to be passed to consuming components that are descendants of this Provider. One Provider can be connected to many consumers. Providers can be nested to override values deeper within the tree.



CONSUME

- A React component that subscribes to context changes. Using this component lets you subscribe to a context within a function component.

# Hands-On

# Q&A

Thank you.