Let's make a todo list app with React Native! First workshop!

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UMN ADC

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Logistics...

Streaming

- https://umn.zoom.us/my/adc.workshop
- Recordings will be posted as unlisted YouTube videos as linked at https://adcumn.org/meetings

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In-person

- Tuesdays 6-7pm
- Tate Hall 120

Officer openings!

Workshop instructors

DM us on the discord!

https://z.umn.edu/ADCdiscord

What is React?

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It is *declarative*. The building blocks are *components*, which may be *functional* or *class components*.

React class components

```
JS Greeting.is X
JS Greeting.js > ...
       class Greeting extends React.Component {
                render() {
                         return (
                                 <h1>Hello, {this.props.name}!</h1>
JS Letter.js
           ×
JS Letter.js > ધ Letter
       import Greeting from './Greeting'
       class Letter extends React.Component {
                renderGreeting(name) {
                         return <Greeting name={name} />;
```

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State

```
JS Birthday.js X
JS Birthday.js > 😝 Birthday
       class Birthday extends React.Component {
               constructor(props) {
                        super(props);
                        this.state = {
                                age: 0,
               render() {
                        return (
                                <h2 onClick={function(){ this.setState({age: this.state.age+1}) }}>
                                         {"Yay, birthday #" + this.state.age + "!"}
       }
```

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React Native allows you to write *cross-platform* React code instead of a *native* codebase for each platform. However, you cannot use HTML. Instead, there are native component libraries for you to use.

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Built-in components

React Native	Android	iOS	HTML
<view></view>	<viewgroup></viewgroup>	<uiview></uiview>	<div></div>
<text></text>	<textview></textview>	<uitextview></uitextview>	
<image/>	<imageview></imageview>	<uiimageview></uiimageview>	

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See https://reactnative.dev for more.

Getting started

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You should instead use the Expo command line interface (CLI) so that you can build your app locally and upload it for distribution.

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Confirm your installation and Node version with node -v.

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Run npm install -g expo-cli. You can now create a template for a new project with expo init and test it with expo start.