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Tech Meetup  
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# INTRO TO REACT

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## WHAT IS REACT?

- ▶ A JavaScript library for building user interfaces
- ▶ Compared to Angular, Ember, React is V in MVC
- ▶ Made by Facebook
  - ▶ Good - they use it in production
  - ▶ Bad - they planned it for their needs, not ours
- ▶ React is not using templates
- ▶ But plain JavaScript components

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## GOOD STUFF

- ▶ One way data flow which reduces boilerplate
- ▶ Virtual DOM
- ▶ Easy to start with
- ▶ JSX - JS / HTML bundled together (even CSS if you like)
- ▶ You can see how component will render
- ▶ Server rendering (and mobile with React Native)
- ▶ Very active community

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## BAD STUFF

- ▶ Hype
- ▶ You are not getting any utils  
(AJAX, promises, framework, data layer...)
- ▶ Reinventing the wheel
- ▶ Documentation
- ▶ Most people don't understand what Flux is
- ▶ SPAs are hard

# EXAMPLE

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```
var HelloWorld = React.createClass({
  render: function() {
    return (
      <div className='Hello'>
        Hello World!
      </div>
    );
  }
});
```

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## SHOULD I USE IT?

- ▶ Short answer - YES
- ▶ It is great for teams, enforcing UI and workflow patterns
- ▶ UI code is readable and maintainable
- ▶ Web Components are the future
- ▶ How companies accept new technologies

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# COMPONENT LIFECYCLE

- ▶ Attributes, properties (`this.props`)
- ▶ Component internal state (`this.state`)
- ▶ Renders itself only one of these is changed

# COMPONENT LIFECYCLE

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- ▶ render
- ▶ getInitialState (ES2015 set in class constructor)
- ▶ getDefaultProps (es2015 set static defaultProps)
- ▶ propTypes
- ▶ mixins (ES2015 decorators)
  
- ▶ componentWillMount
- ▶ componentDidMount
- ▶ componentWillReceiveProps
- ▶ shouldComponentUpdate
- ▶ componentWillUpdate
- ▶ componentDidUpdate
- ▶ componentWillUnmount



EXAMPLE

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**LIVE CODING**

# TOOLING

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- ▶ NPM (leftpad)
- ▶ ES2015 / Babel
- ▶ WebPack

# OTHER GOODIES

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- ▶ Flux (Redux)
- ▶ Server rendering - Node (universal apps are hard)
- ▶ React Native (mobile, even desktop)

**GIVE IT FIVE MINUTES**

**Jason Fried**

<https://facebook.github.io/react/docs/tutorial.html>

<https://github.com/petehunt/react-howto>

<http://img.h.us/react-lifecycle.svg>

<https://egghead.io/series/getting-started-with-redux>

<https://facebook.github.io/react-native/>

HVALA!

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PITANJA?