React!!

Questions

- What is React?
- Why do we use it?
- What's it good for?
- What's it not good for?
- What's the difference between a library and a framework?
- What are some other ones?
- Why React and not the other guys?
- What about TypeScript?
- What is React Native?

What is React?

- It's a JavaScript library
- For building complex, highly interactive User Interfaces for the web
- You build front-ends with it

Why do we use it?

- Building complex front-ends is HARD
- React lets us think in components
- Focuses on "immutable data"
- Focuses on a "single source of truth"
- Keeps your UI consistent (where a single model is represented in many places)

What's it good for?

- Dashboards: "realtime" information displays
- (Pretty ok at) Games

Anything that can be described as "resuable components"

What's it not good for?

- Portfolio (a.k.a. anything that is "just fine" in static HTML + CSS)
- Big Forms

Anything with very little complexity or lots of forms

What's the difference between a library and a framework?

- Library - you control the library
  - described as "diy" or "byo-"

- Framework - the framework controls you
  - described as "opinionated" or "prescriptive"

What are some other ones?

- Ember.js - created by Ruby on Rails devs
  - Used by LinkedIn, Apple Music

- Angular - used a lot by .NET shops
  - Terminus, Blue Sombrero

- Vue - used by people who don't want to like React

Why React and not the other guys?

- it's "small" and flexible
- the core pattern is so powerful, it was copied by all the other libraries/frameworks
- it's the most popular

What about TypeScript?

- Created by Microsoft
- It's a compile-to-JavaScript language
- Provides type-checking

What is React Native?

- It's the React pattern, but works as a native app (iOS and Android)