

Integrating React Native into an existing native codebase

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Ruby dev since 2004

Mac dev since 2006

iOS dev since 2009

RubyCocoa

MacRuby

RubyMotion

CocoaPods

2010 - 2015

React Native

since valentine's day 2016 ❤

**Xcode
survivor**

ArtsW

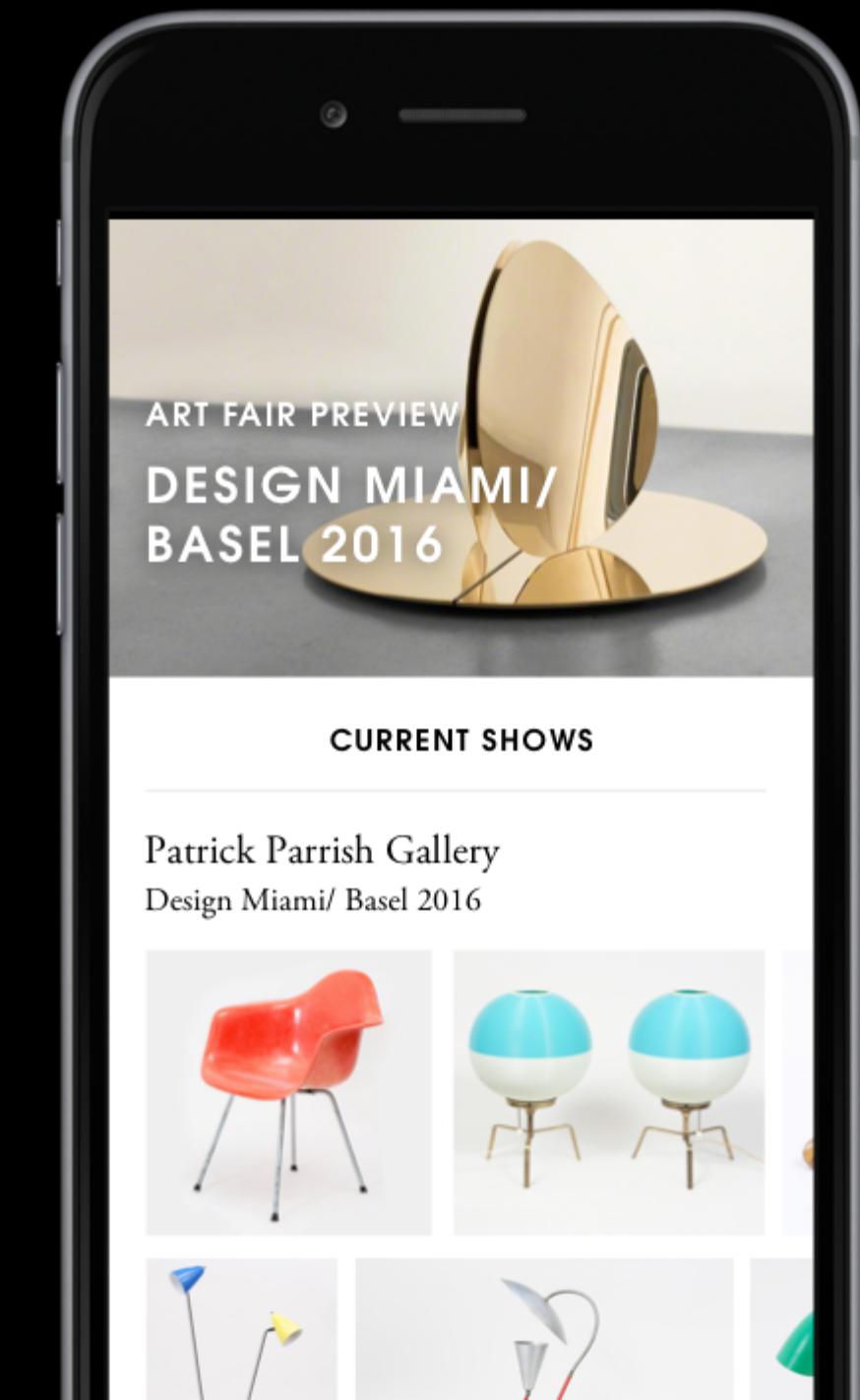
**Make all the world's art
accessible to anyone
with an Internet
connection**

**Open-Source
By Default**

Learn about and collect art
from leading galleries,
auctions, fairs, and museums.

“Eigen”

**Native iOS app since
2012**



“Emission”

**React Native iOS views
since April 2016**

Why?

Simpler mental model

Spaghetti code

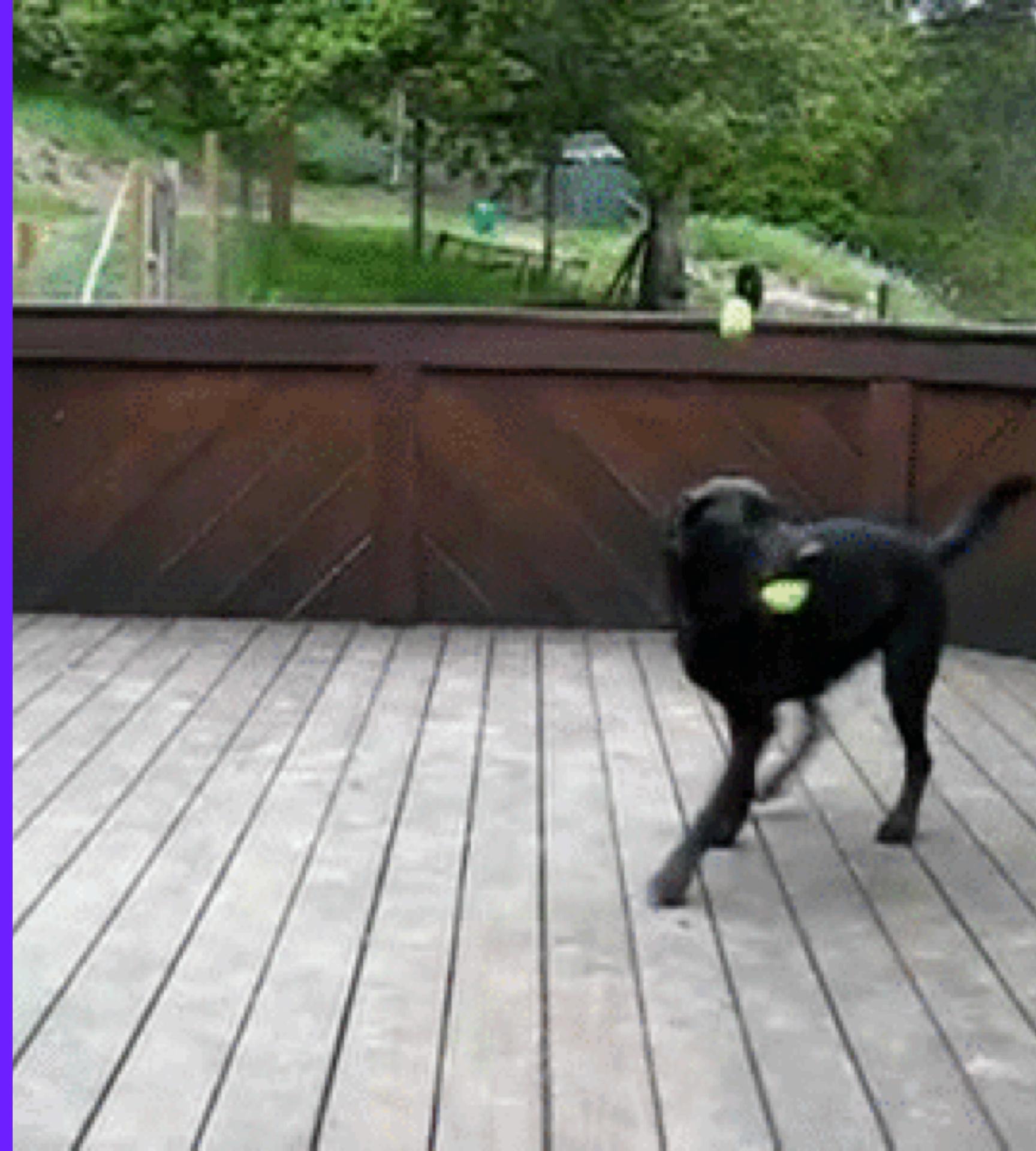


New paradigm

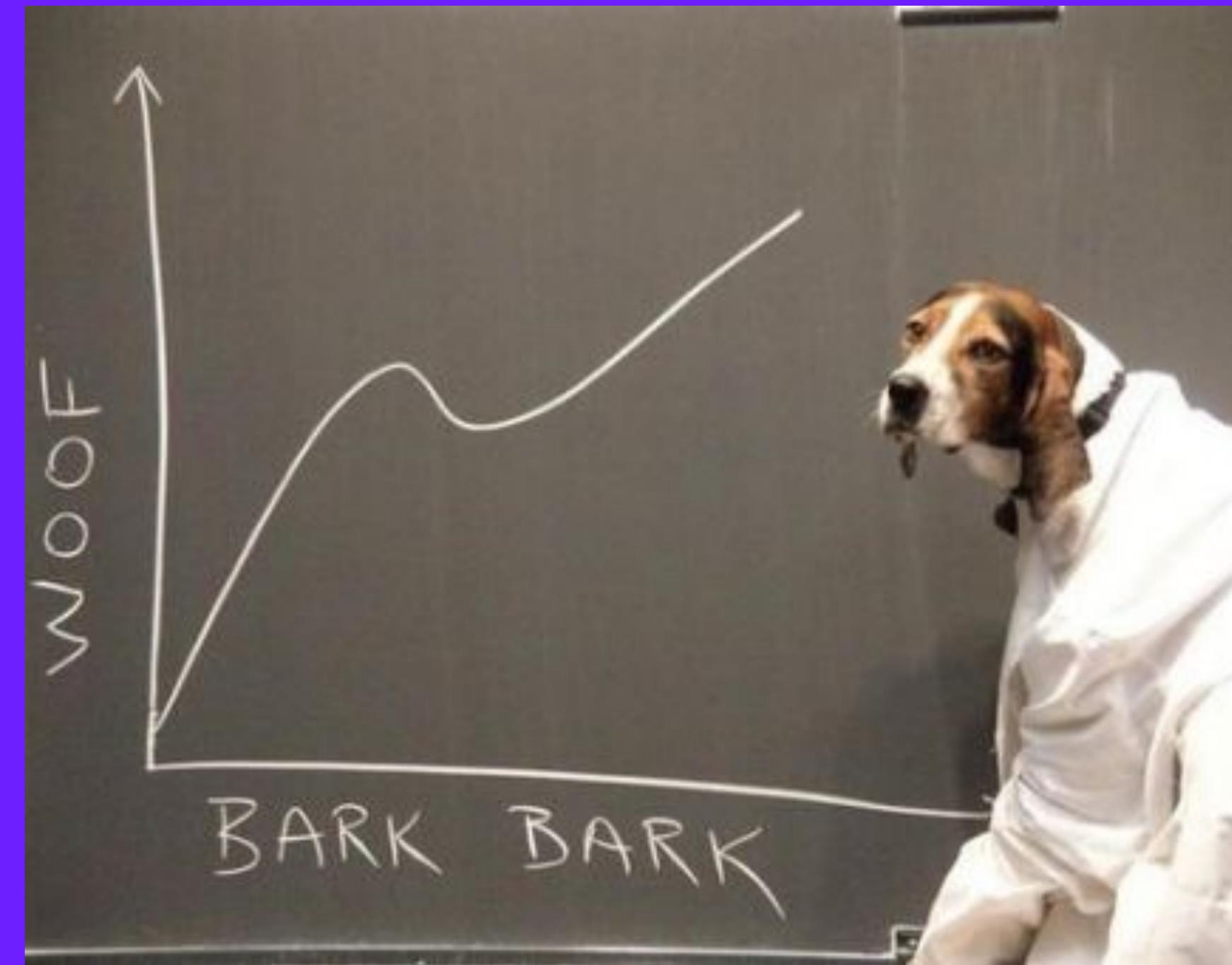


Networking

Request waterfall



GraphQL



GraphQL



made with dwigif.com

De-silo people

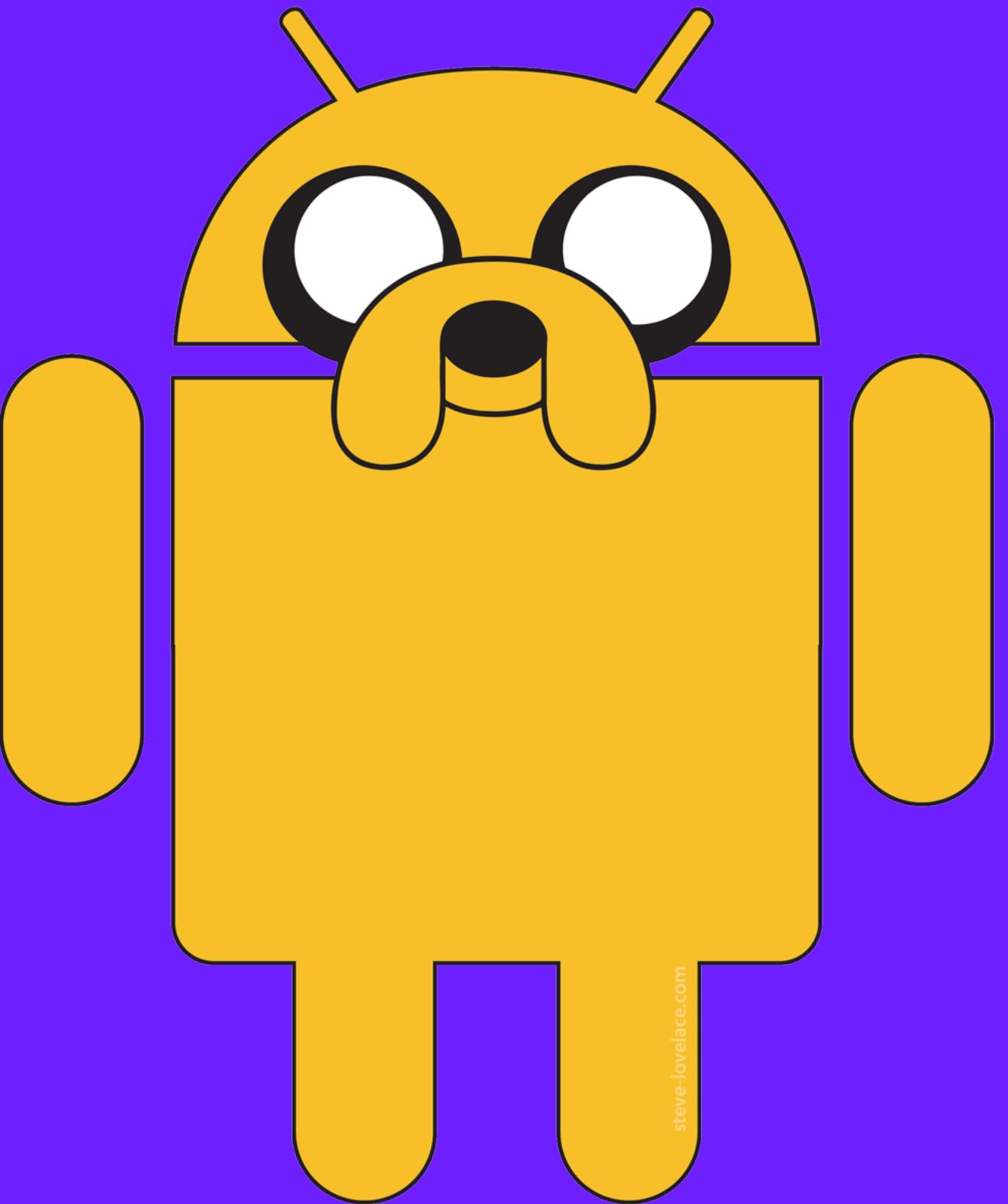
Pair up



Improve developer experience

Expand platform support

Android



Carrier 2:33 PM

EXCLUSIVELY ON ARTSY
EHC FINE ART: ESSENTIAL EDITIONS

Recommended Works for You

DAVID SHRIGLEY
British, b. 1968
1658 Followers

FOLLOWING

ABOUT **WORKS** **SHOWS**

Works for Sale (50)

David Shrigley
Untitled (Pedestal), 2006
Stephen Friedman Gallery
Contact For Price

David Shrigley
Untitled (Foot), 2006
Stephen Friedman Gallery
Contact For Price

EMERGING ART

FOLLOW

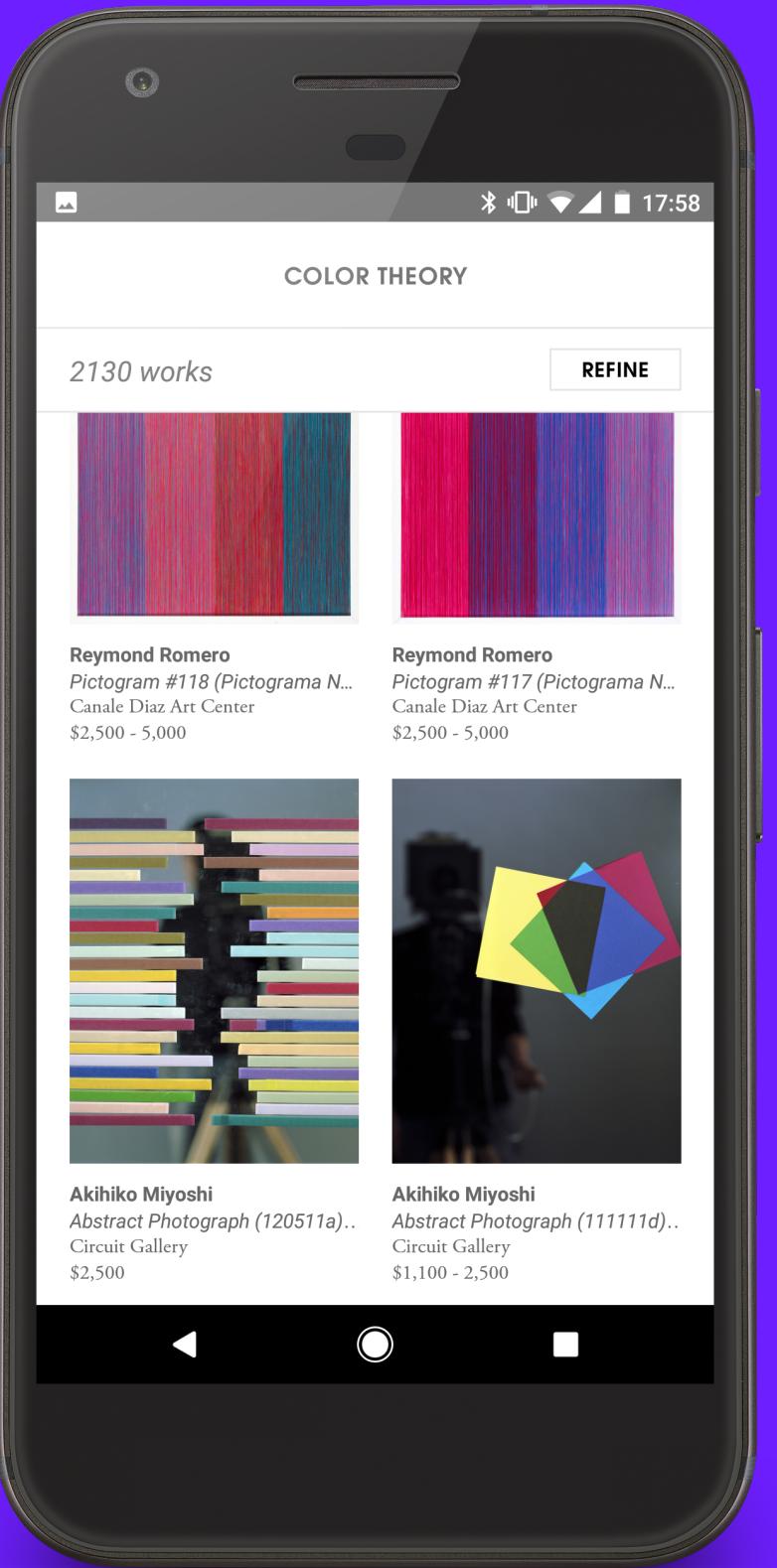
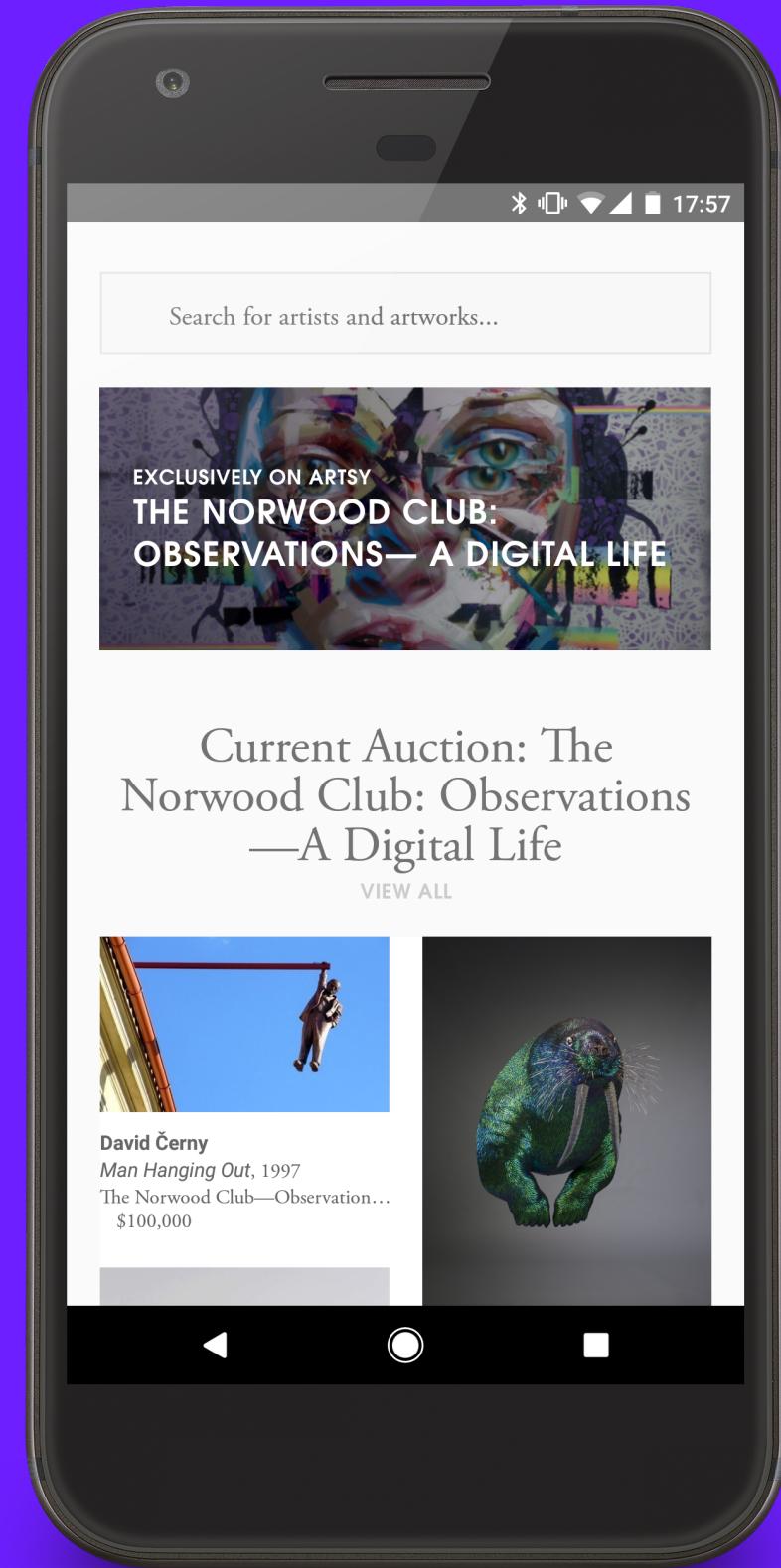
WORKS **ABOUT**

1,830 works • Painting • \$50 -...

REFINE

Becky Yazdan
Triple Whiskey, 2012
FRED.GIAMPIETRO Gallery
\$5,000

Becky Yazdan
Night Hawk, 2013
FRED.GIAMPIETRO Gallery
\$1,600



Swift

Optimized



Developer experience



Just a language



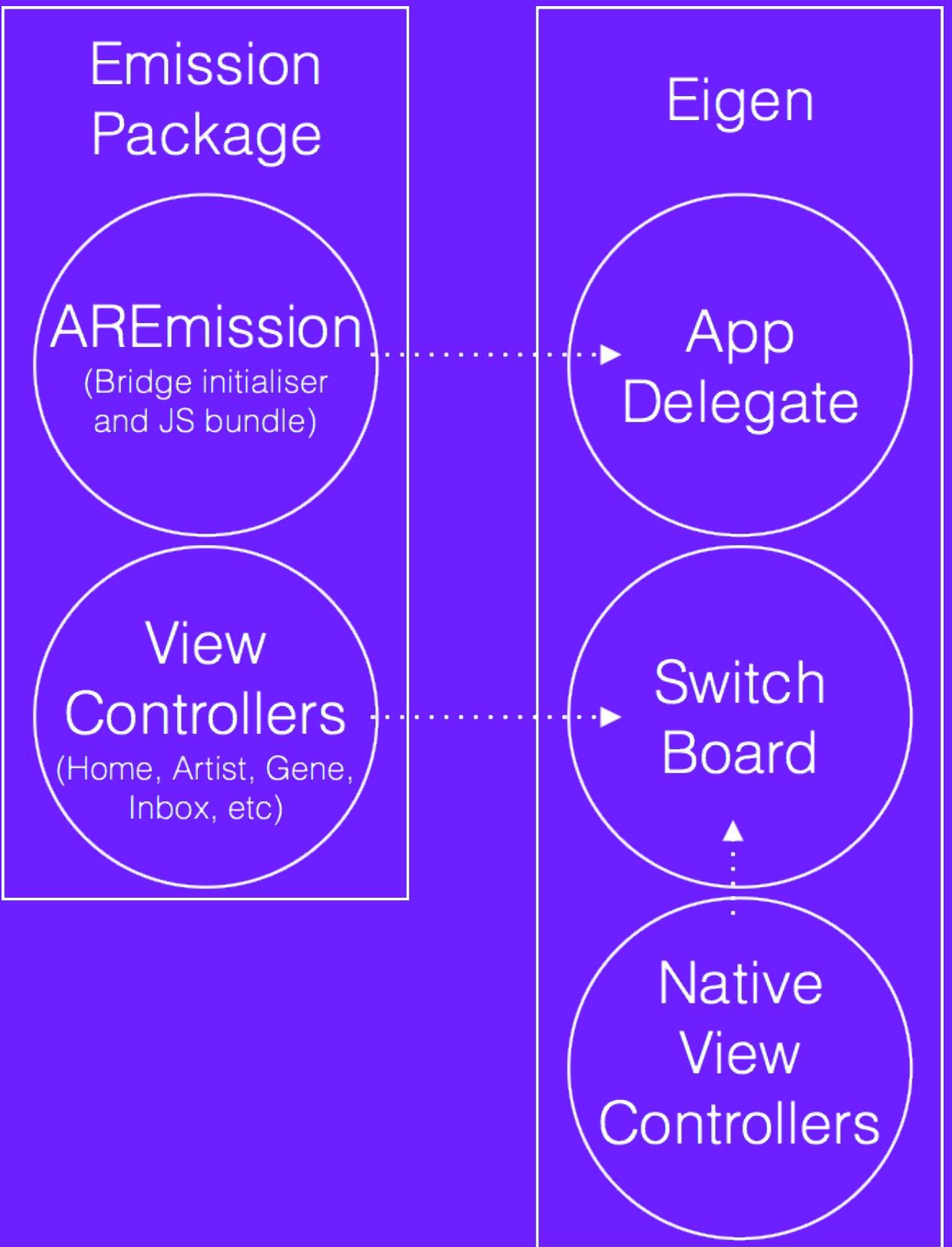
Summary

- Simpler mental model
- Simpler and more efficient networking
 - De-silo people
- Improve developer experience
- Expand platform support

HOW?

Integration

Package



pros



cons



Routing

Mixed

Carrier

3:32 PM

Search for artists and artworks...



Recommended Works for You



William Frej
Bayon, Cambodia, 2016
Peyton Wright Gallery
\$4,800



Evgenia Arbugaeva
Untitled #14, from the series Tik...
The Photographers' Gallery
Contact For Price



HOME

EXPLORE

YOU



JavaScript API usage

```
class Artwork extends React.Component {  
  handleTap() {  
    SwitchBoard.presentNavigationViewController(this, this.props.artwork.href)  
  }  
  
  // ...  
}  
  
class SearchBar extends React.Component {  
  handleTap() {  
    Switchboard.presentModalViewController(this, "/search")  
  }  
  
  // ...  
}
```

Objective-C API usage

```
@implementation AREmissionSetup

- (void)configureEmissionInstance:(AREmission *)emission;
{
    emission.switchBoardModule.presentNavigationViewController = ^(UIViewController * _Nonnull fromViewController,
                                                               NSString * _Nonnull route) {
        [fromViewController.navigationController pushViewController:[self viewControllerForRoute:route]
                                                 animated:YES];
    };

    emission.switchBoardModule.presentModalViewController = ^(UIViewController * _Nonnull fromViewController,
                                                               NSString * _Nonnull route) {
        UIViewController *viewController = [self viewControllerForRoute:route];
        UINavigationController *navigationController = [self navigationControllerWithRootViewController:viewController];
        [fromViewController.navigationController presentViewController:navigationController animated:YES completion:nil];
    };
}

// ...

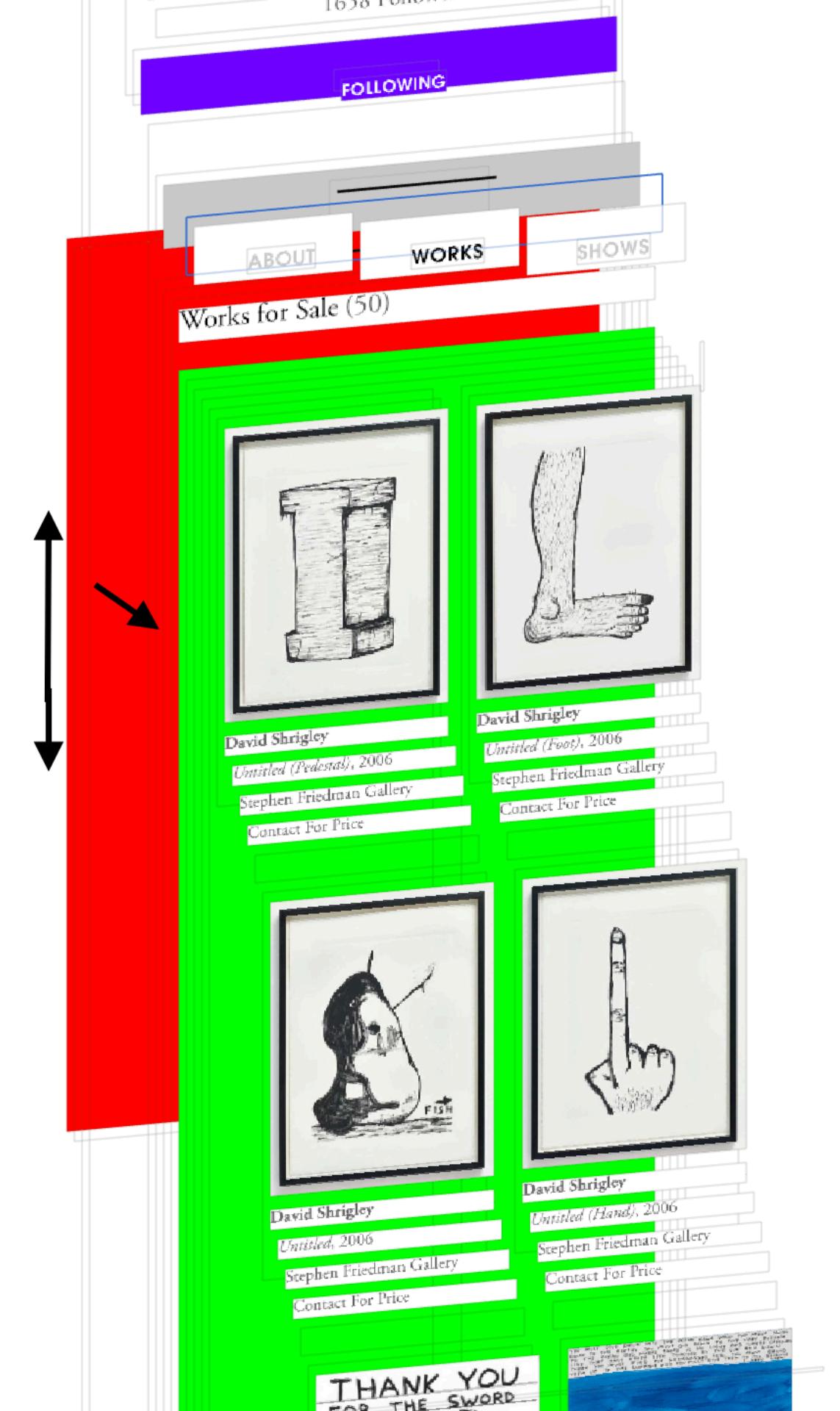
@end
```

Nested scroll views

Demo time



Event forwarding



Optimized image view

Shared caching



Opaque drawing



conclusions

- Works well for us in production
- ...but you should expect native work
- ...however it does mean you can do anything
- Or you're fine if you'll adjust design based on limitations
 - Bugs will be on you to fix

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artsy.net/rn-eu-links

