



facebook












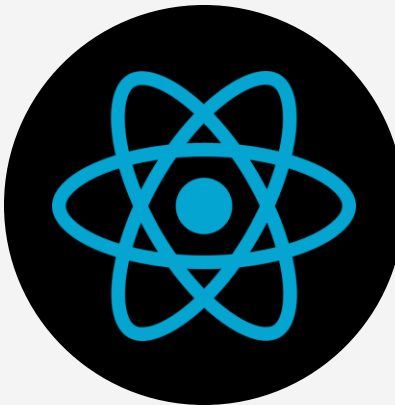









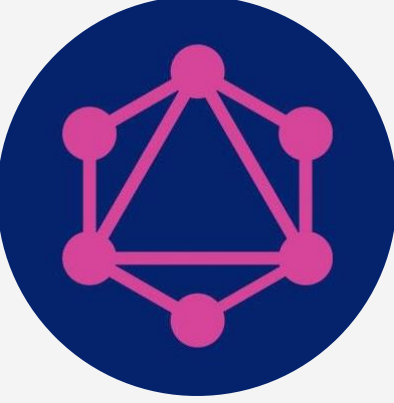


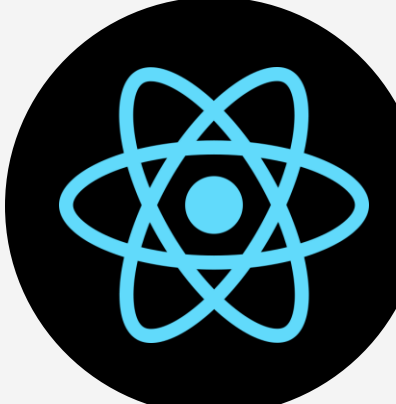





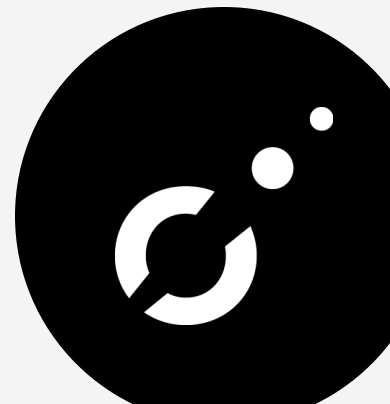
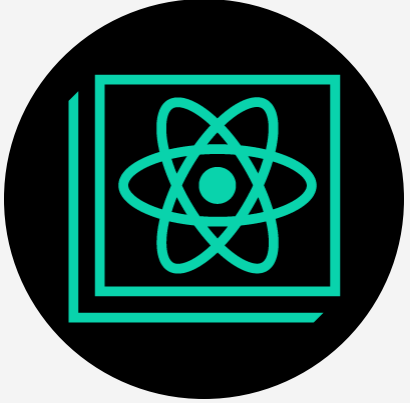


Open Source at Facebook

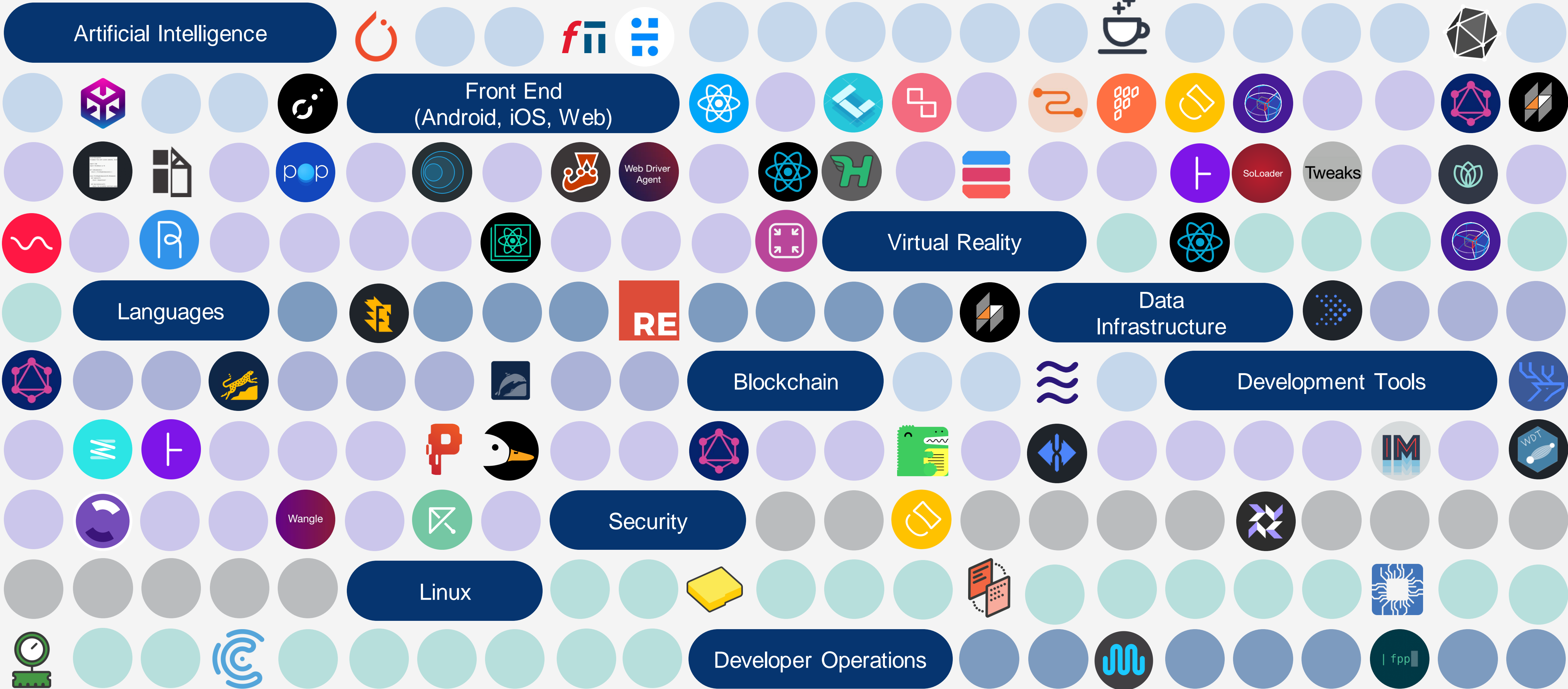
Kathy Kam

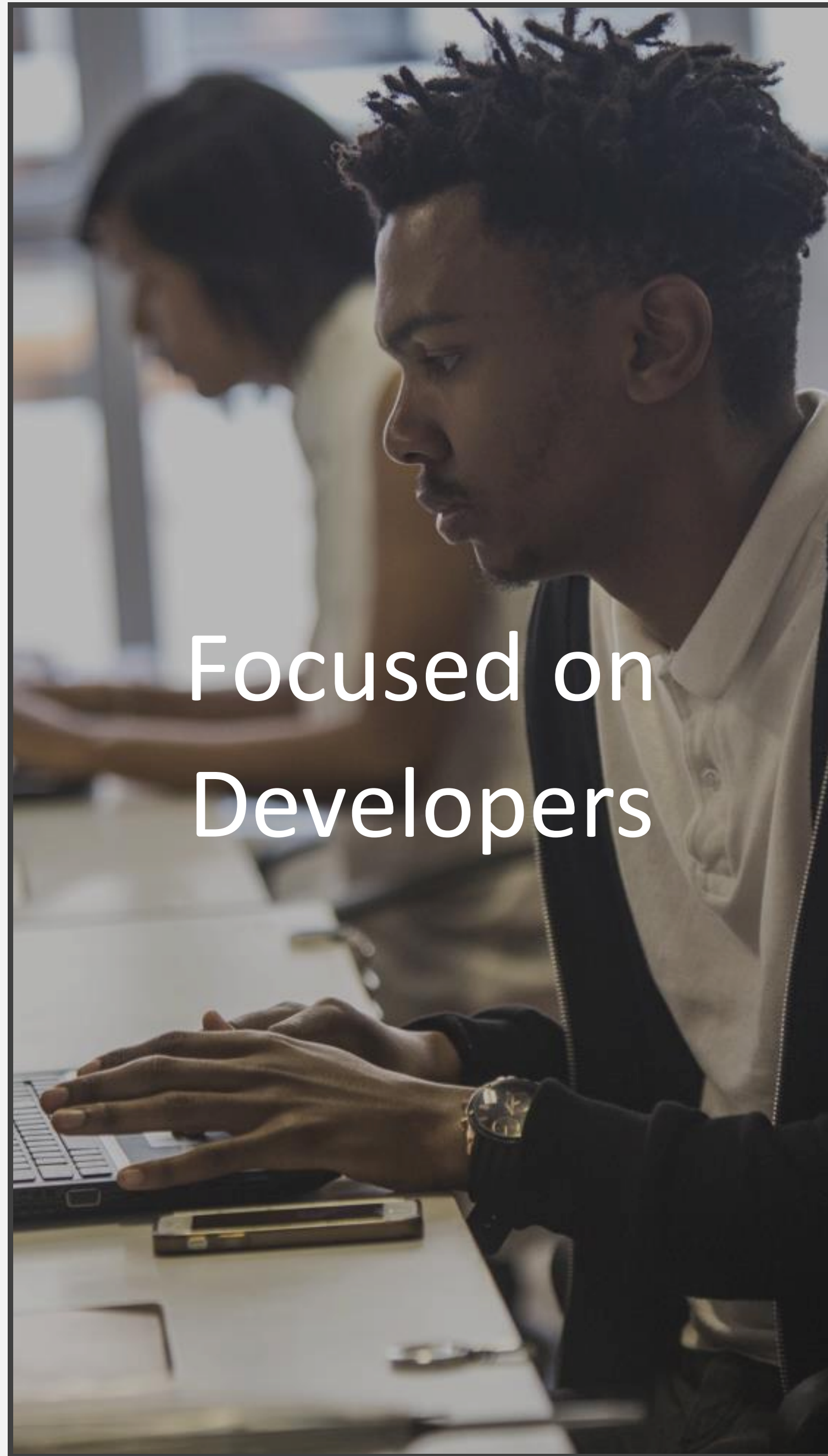
HEAD OF OPEN SOURCE



- | | | | | | | | |
|--|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |
| PyTorch | Buck | Reason | Yoga | Zstandard | Infer | IGListKit | Litho |
|  |  |  |  |  |  |  |  |
| HHVM | fresco | ComponentKit | React Native | Profilo | Duckling | pop | Docusaurus |
|  |  |  |  |  |  |  |  |
| Proxygen | Hack | Presto | Flow | Immutable-JS | GraphQL | Flipper | Hermes |
|  |  |  |  |  |  |  |  |
| React | Redex | RocksDb | McRouter | Jest | osquery | Prophet | Create React App |

450+ Projects





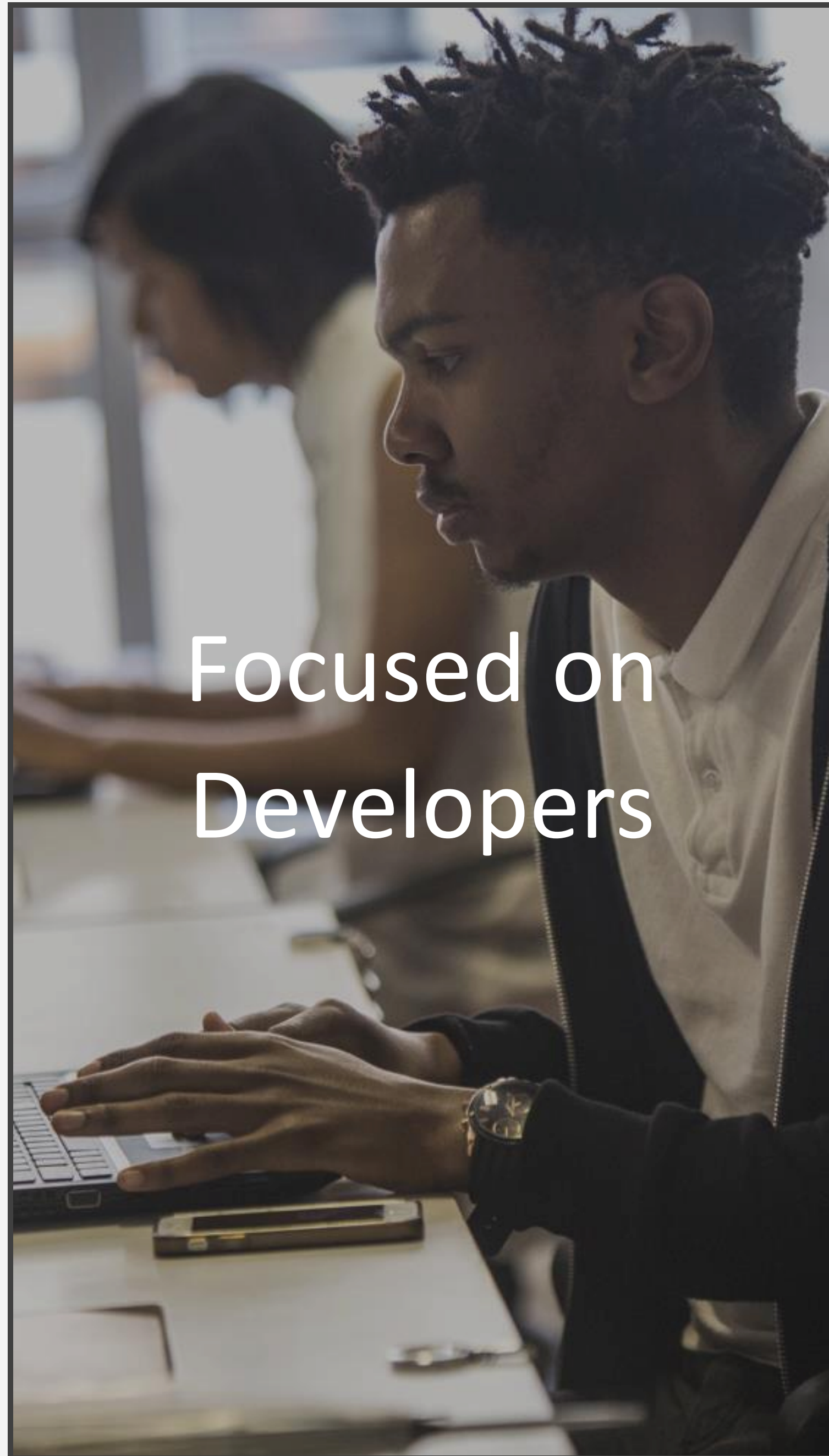
Focused on
Developers



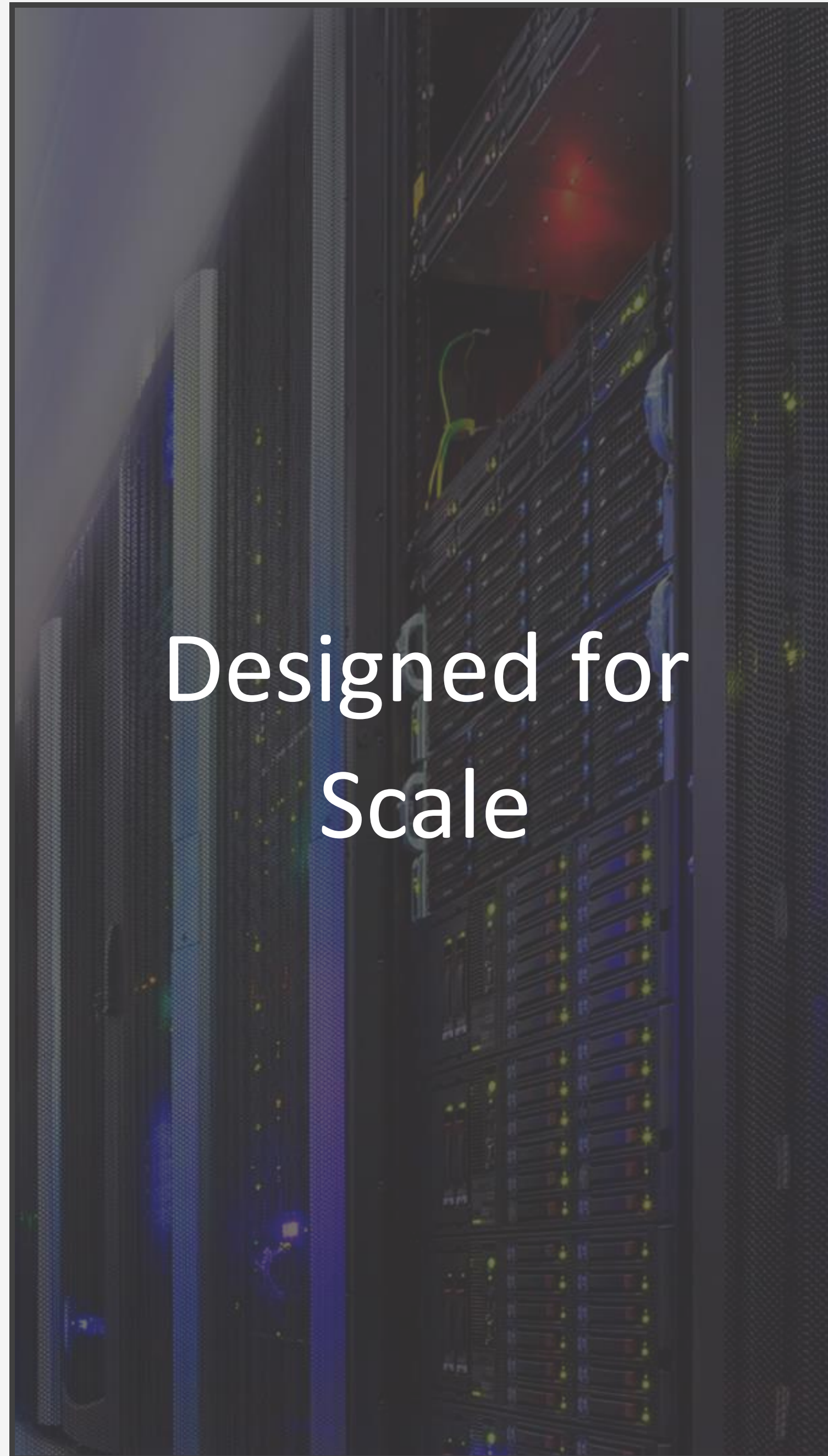
Designed for
Scale



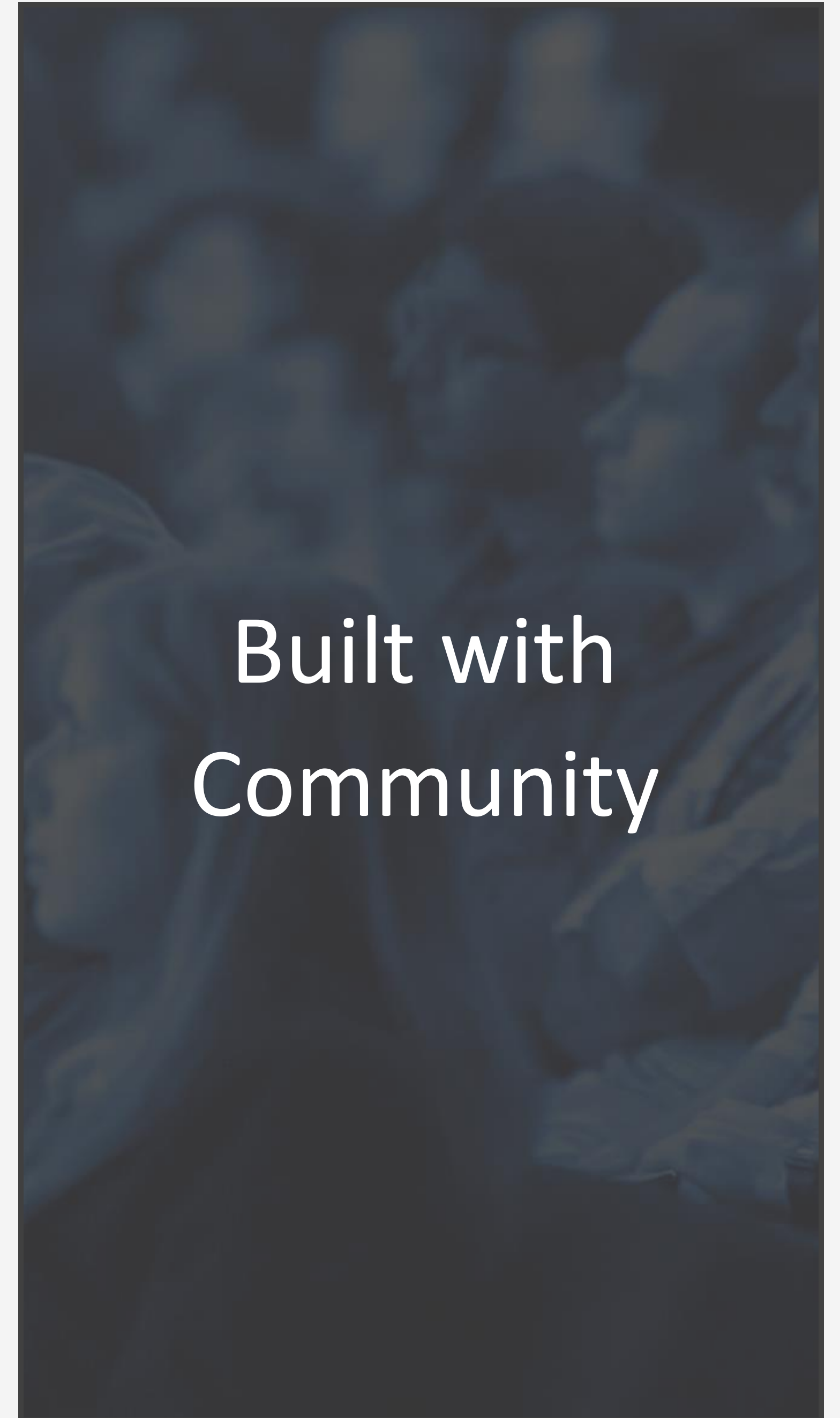
Built with
Community



Focused on
Developers



Designed for
Scale

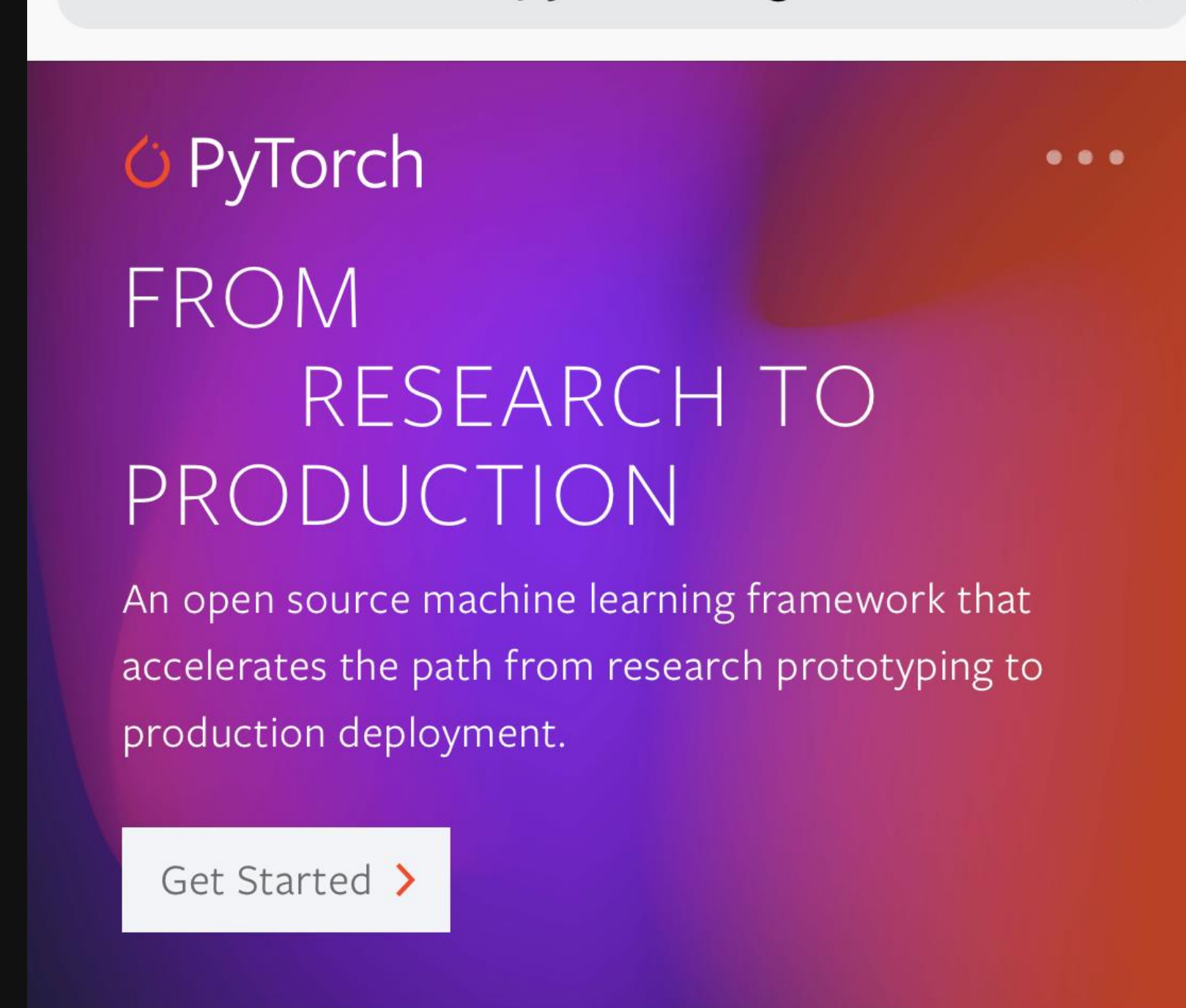


Built with
Community



PyTorch

Deep Learning Platform for
Research and Production



KEY FEATURES & CAPABILITIES

[See all Features >](#)

TorchScript

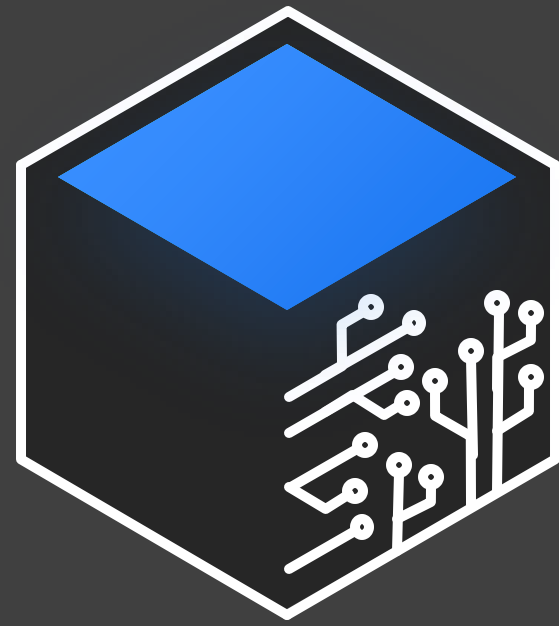
TorchScript provides a seamless transition between

To analyze traffic and optimize your experience, we serve cookies on this site. By clicking or navigating, you agree to allow our usage of cookies. As the current maintainers of this site, Facebook's Cookies Policy applies. Learn more, including about available controls: [Cookies Policy](#).

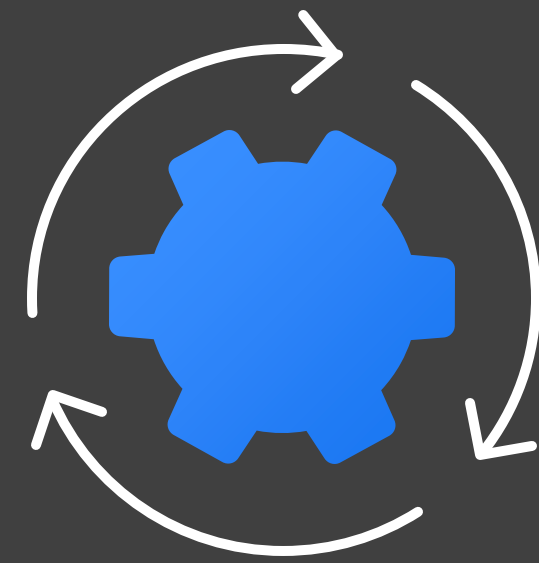


AI/ML Primer

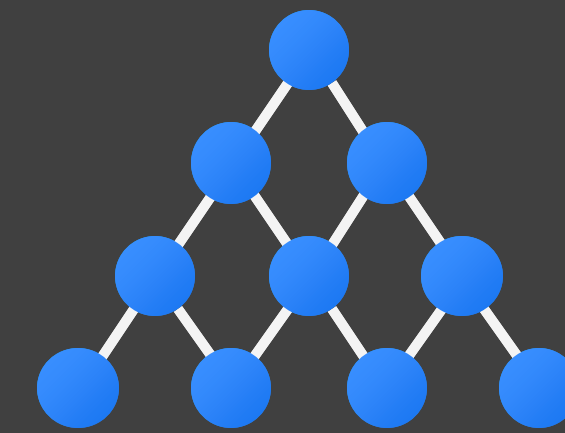
AI



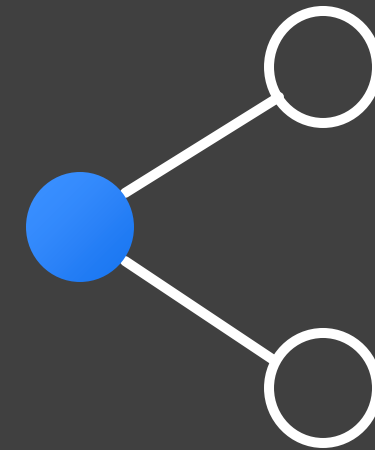
ML



DL



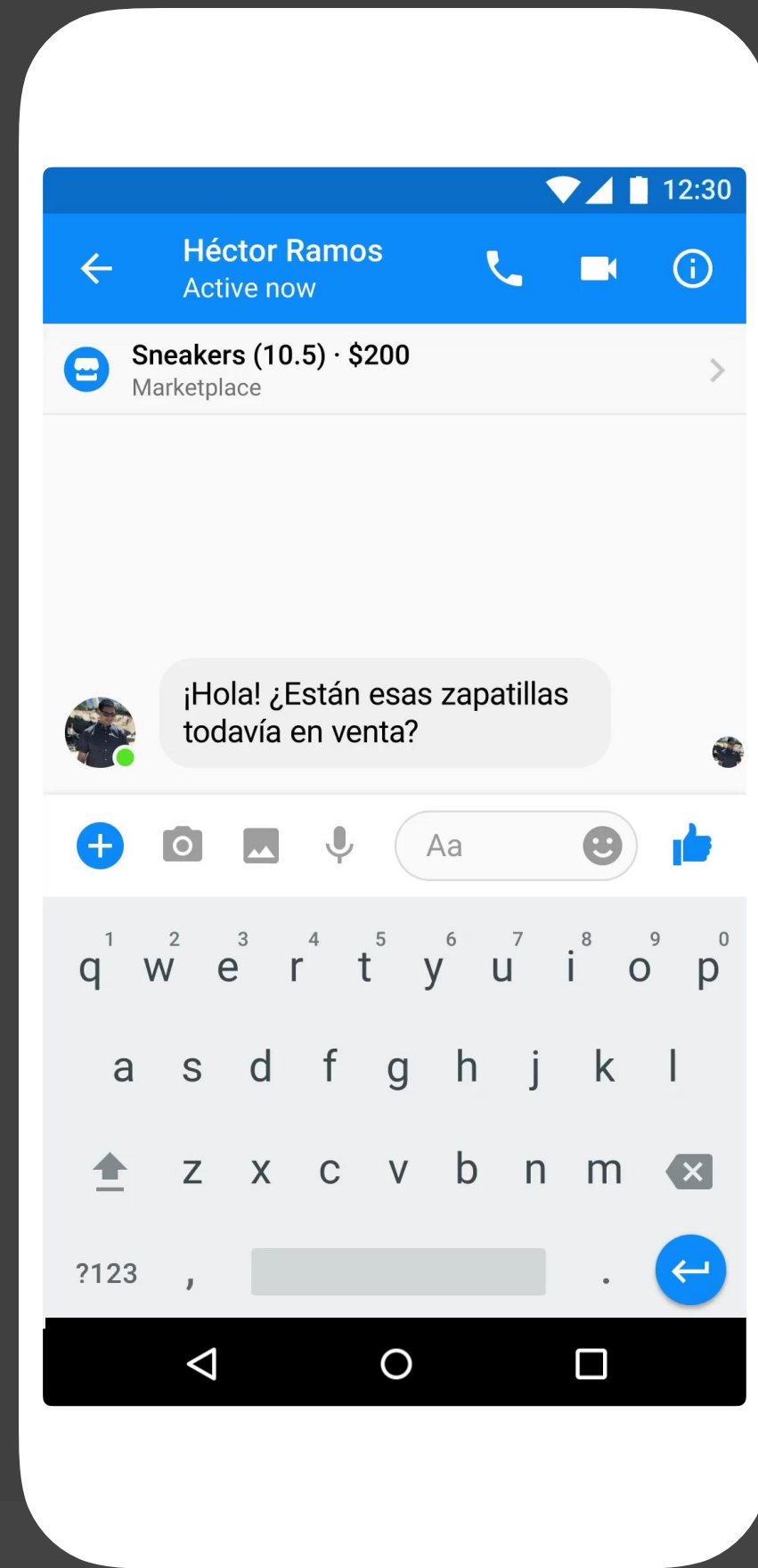
AI/ML Workflow



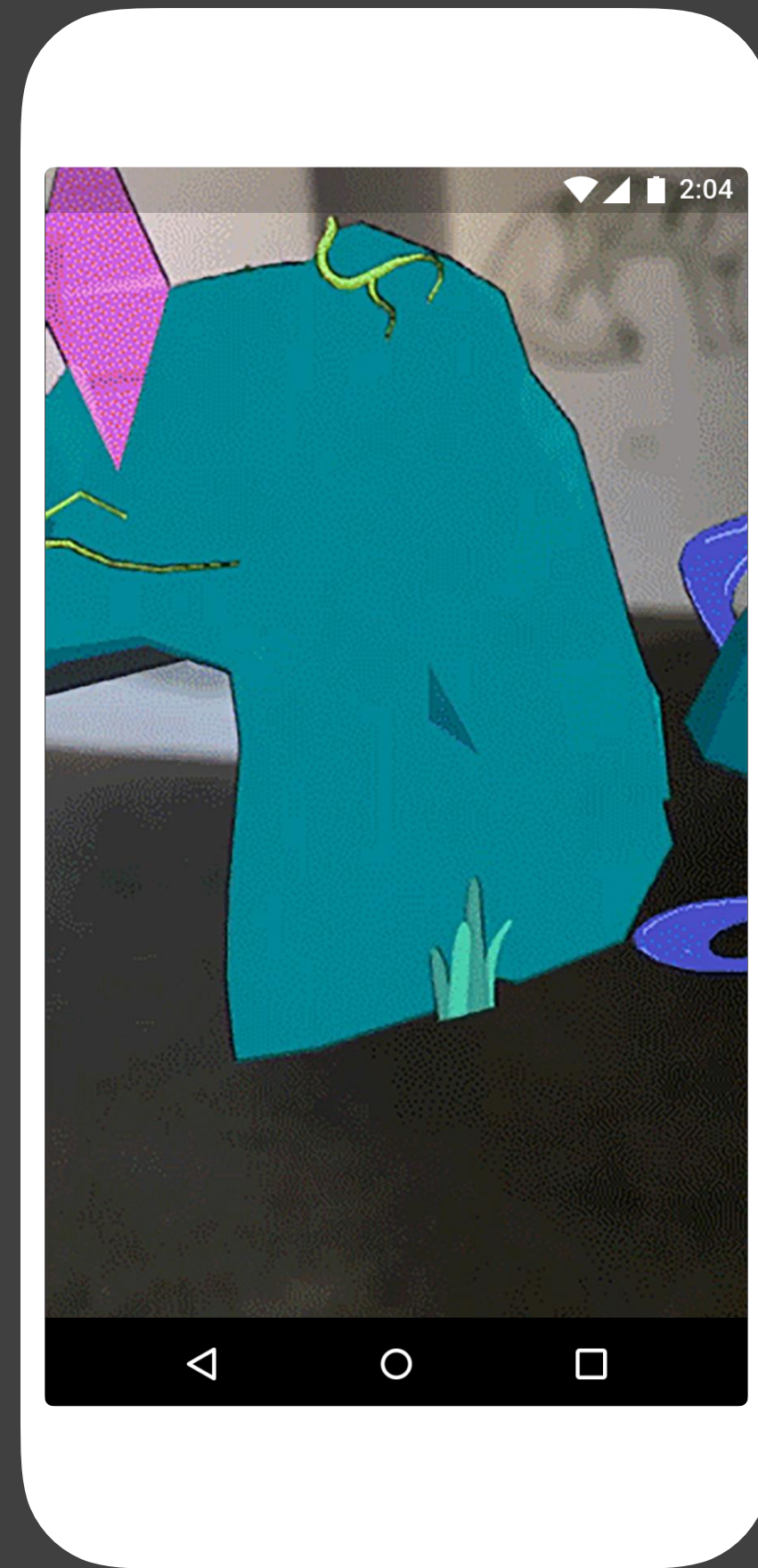
Get & Prepare
Data

Build &
Train Model

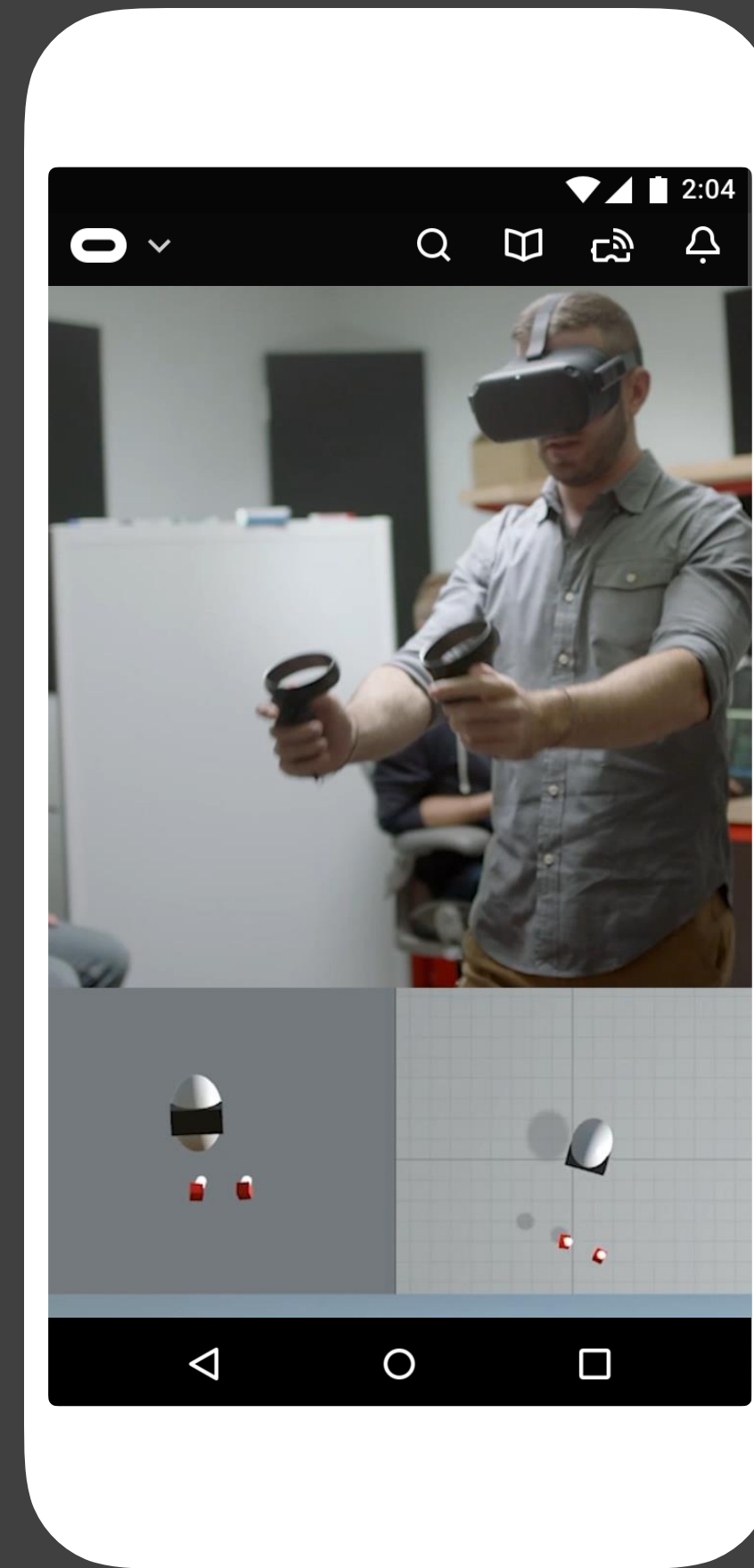
Deploy Model
for Inference



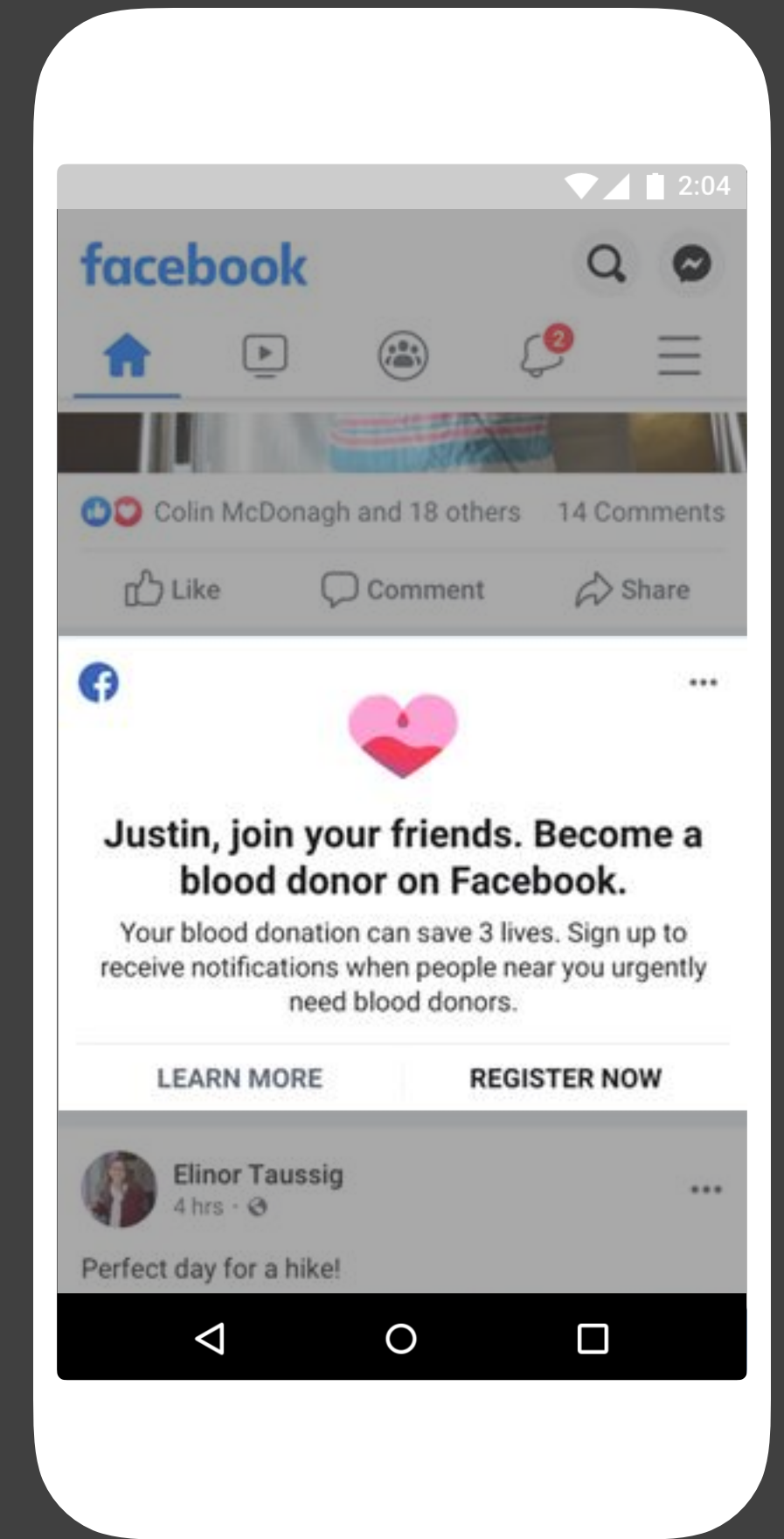
Translation



Spark AR



Oculus VR



Blood Donations



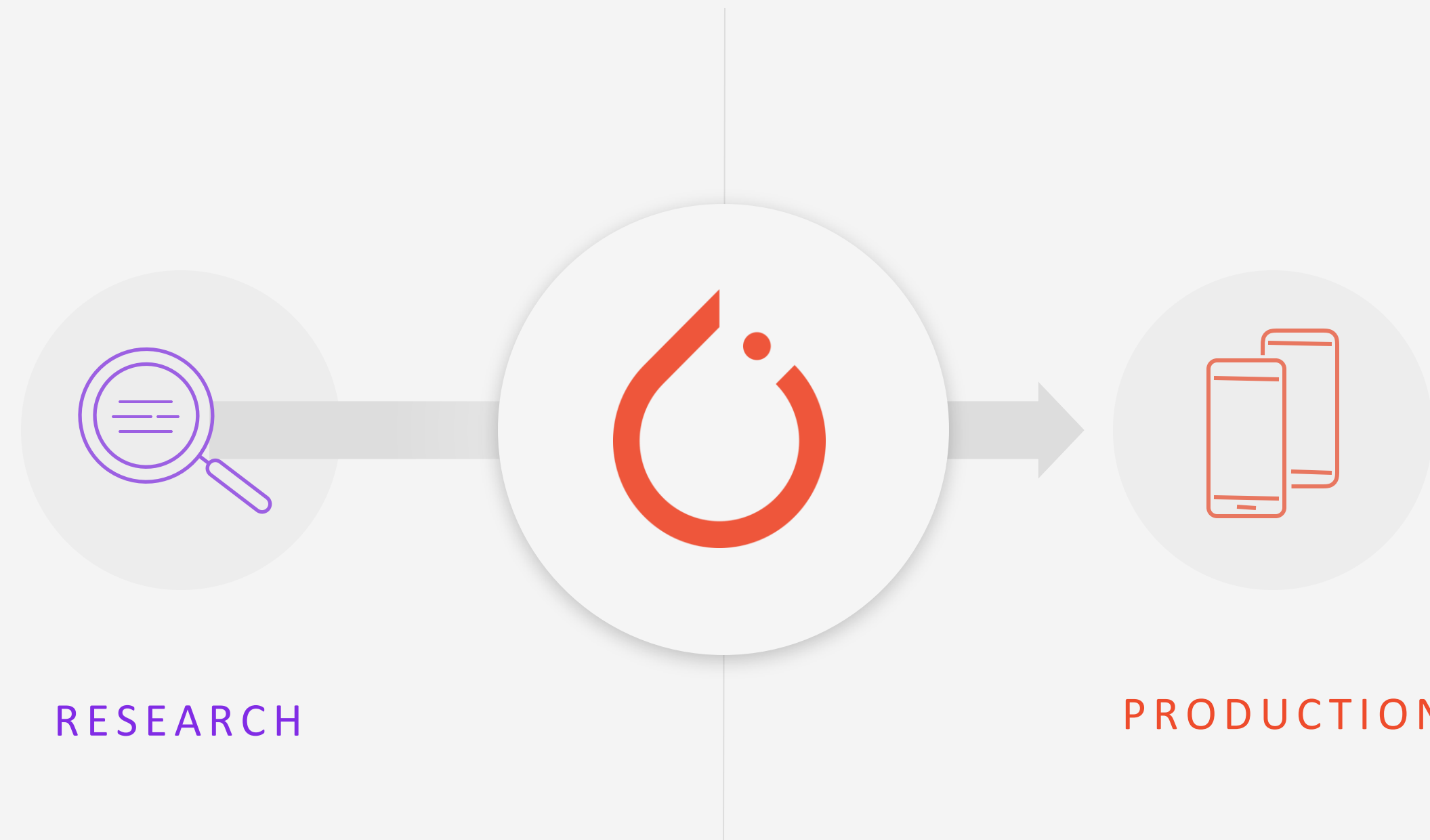
400T+

Predictions Per Day

Research to Production at Facebook

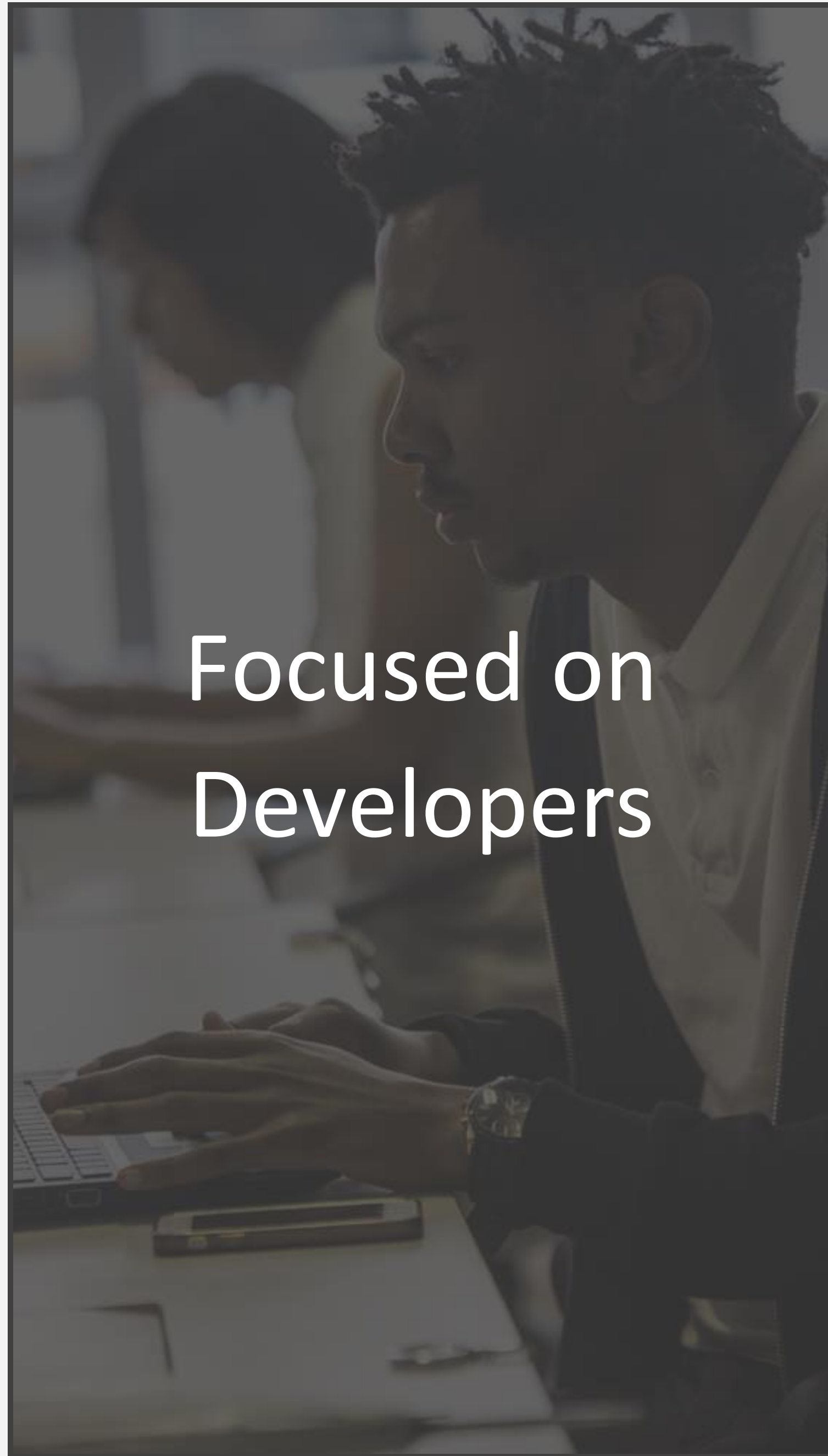
THE PREVIOUS PROCESS





RESEARCH

PRODUCTION



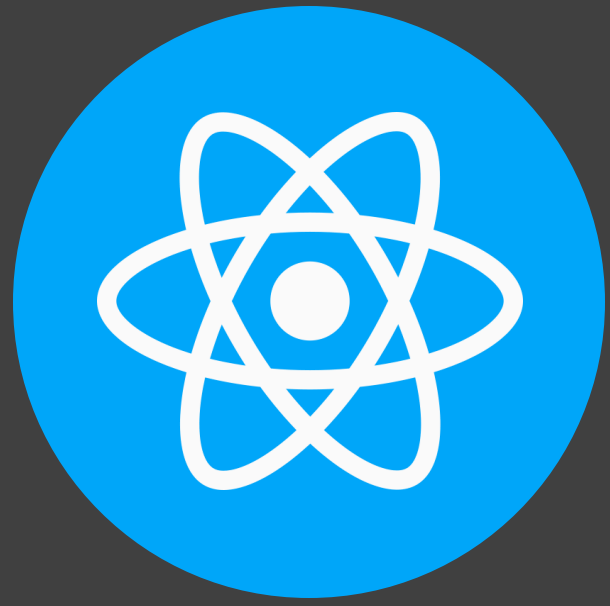
Focused on
Developers



Designed for
Scale



Built in
Community



React Native

Build Mobile Apps with React

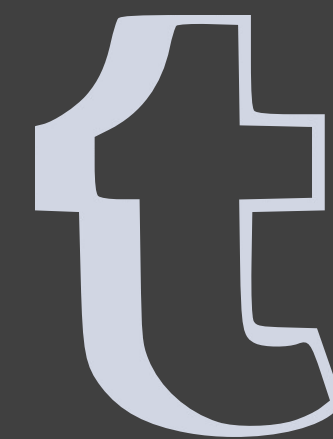




SONY



10,000 apps include the React Native fram



CASE STUDY

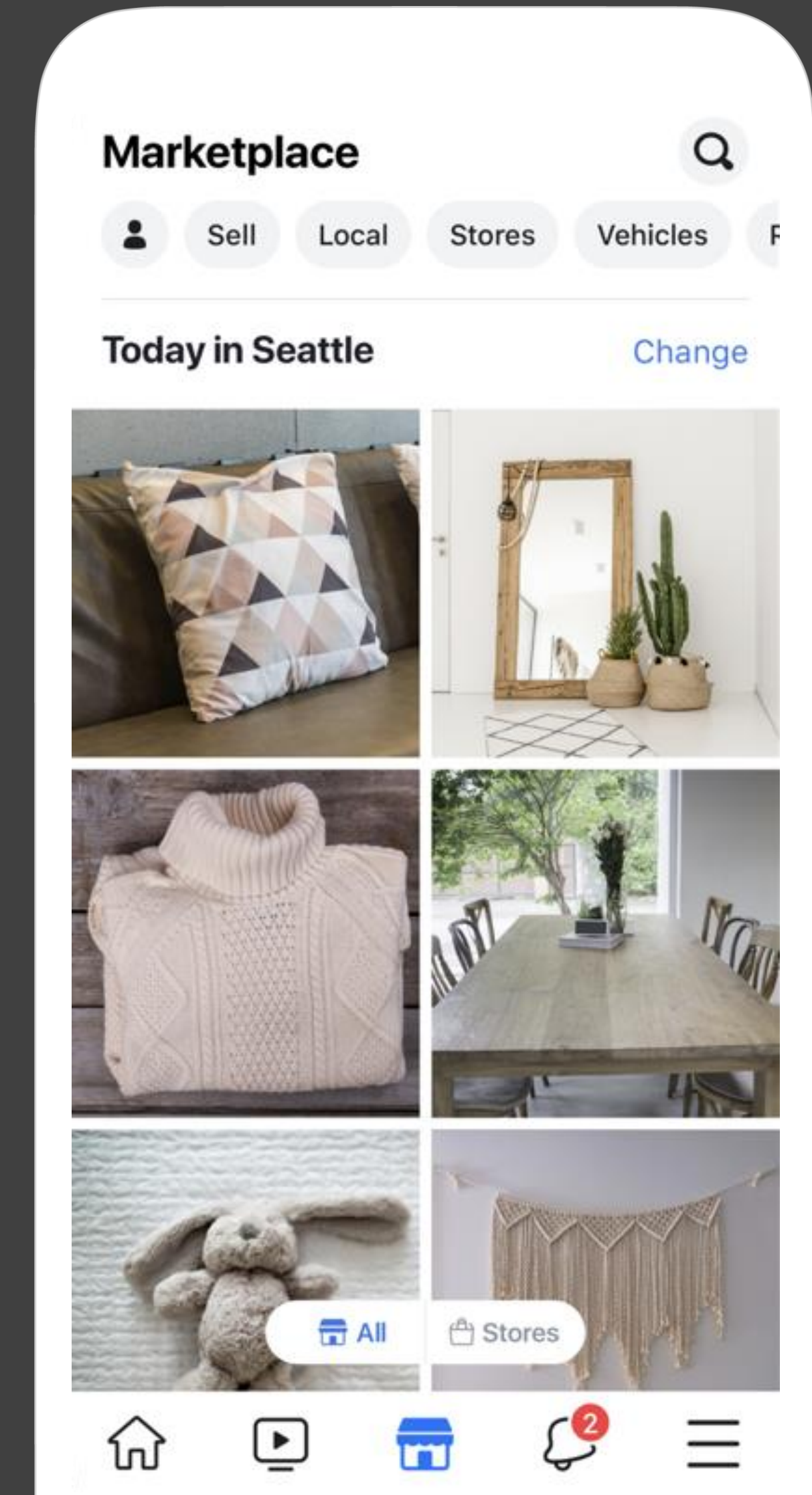
Marketplace

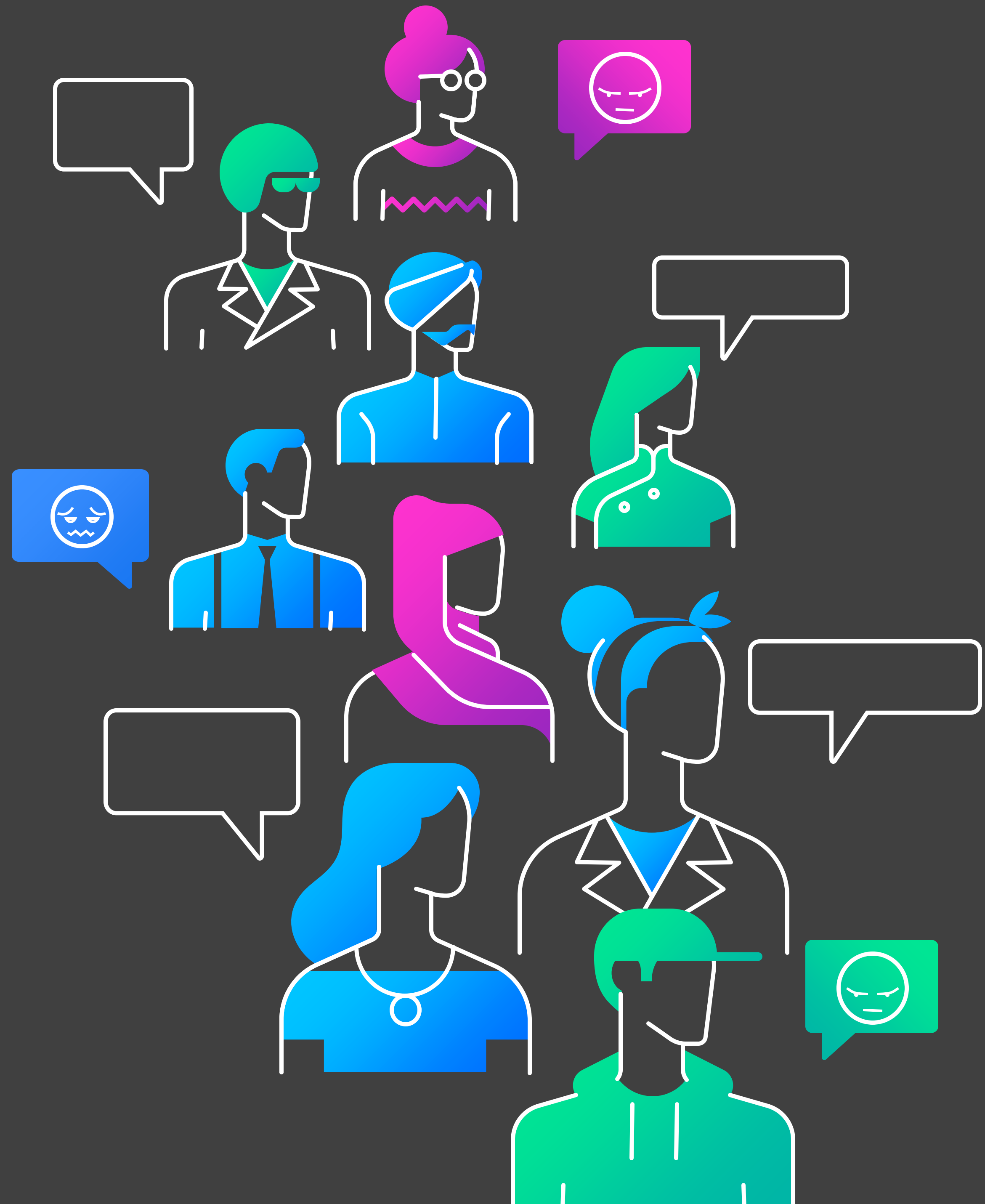
Benefits for Marketplace

- React Ecosystem
- Iteration Speed
- Cross-Platform Code Sharing

1 in 3

People in the US use
Marketplace every
month

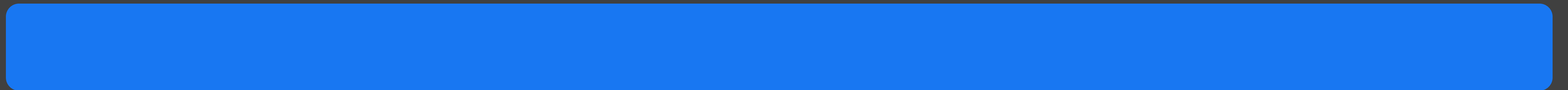




Marketplace Startup

H2 2017

Startup Time



↑
Fast

↑
H2 2017

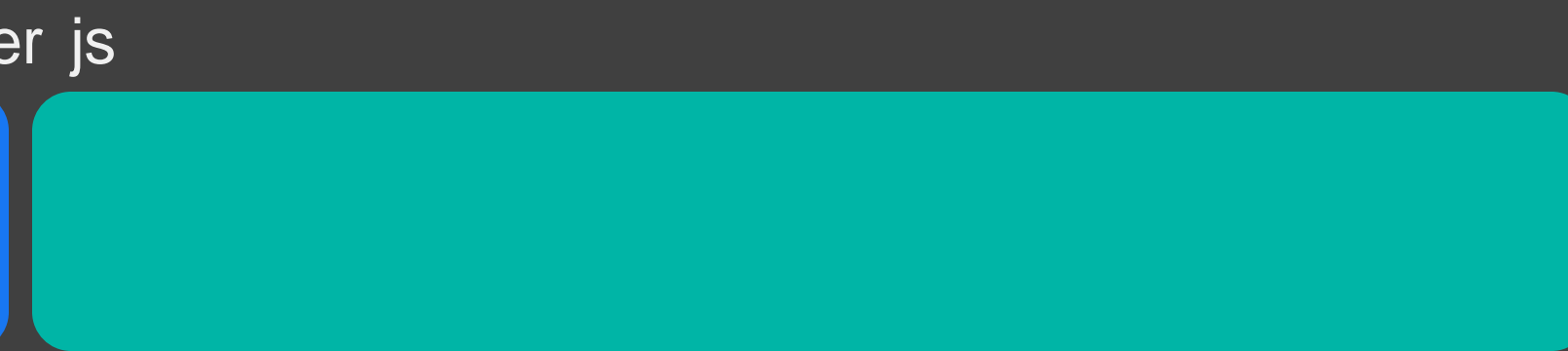
Marketplace Startup

H2 2017

react native startup



pre-render js



network + server

js + render



native render



Marketplace Startup

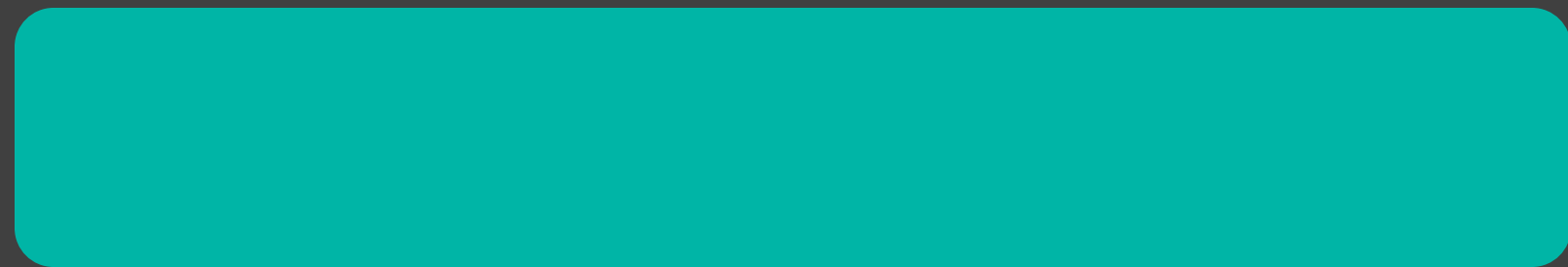
react native startup



pre-render js



network + server



js + render



network + server

native render


```
// index.js
```

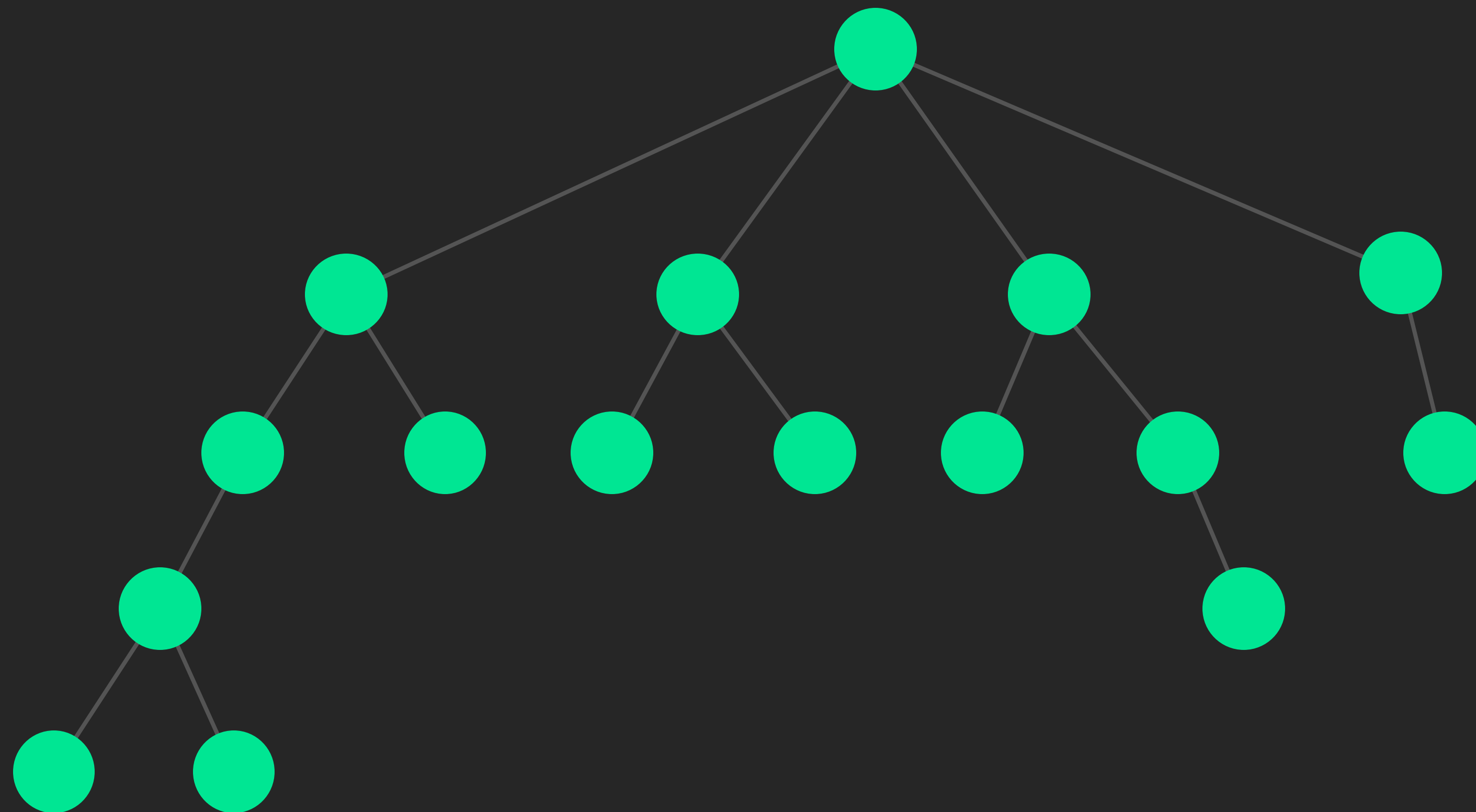
```
const MarketplaceFeed = require('./MarketplaceFeed');
```

```
const MarketplaceItemDetails = require('./MarketplaceItemDetails');
```

```
const SafetyCheck = require('./SafetyCheck');
```

```
const CityGuides = require('./CityGuides');
```

```
// ...
```



```
// index.js
```

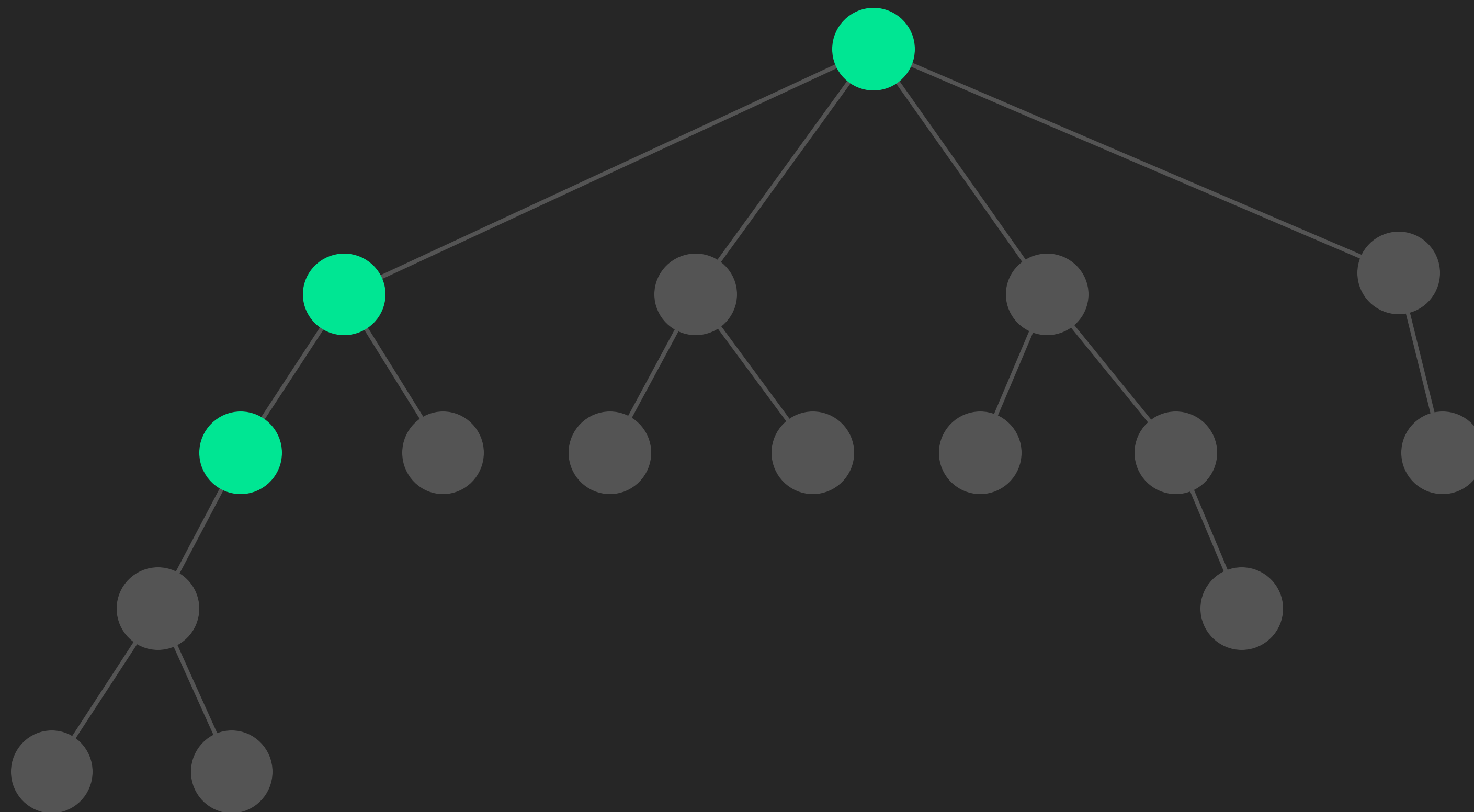
```
const MarketplaceFeed = require('./MarketplaceFeed');
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const CityGuides = require('./CityGuides');
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```
// ...
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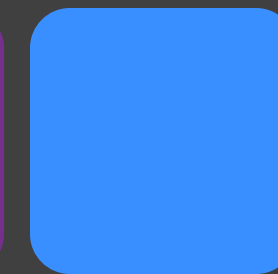
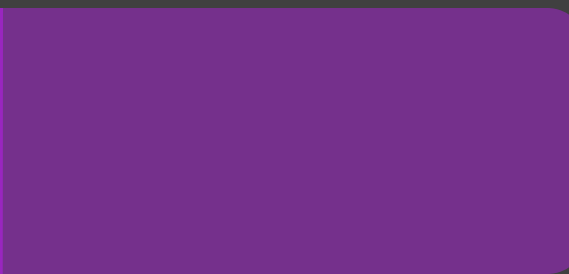
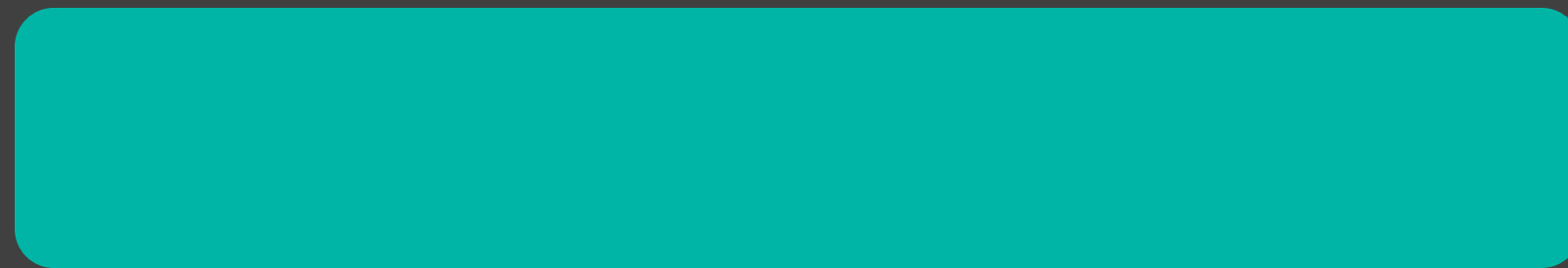


Marketplace Startup

react native startup

pre-render js

js + render



network + server

native render

Marketplace Startup

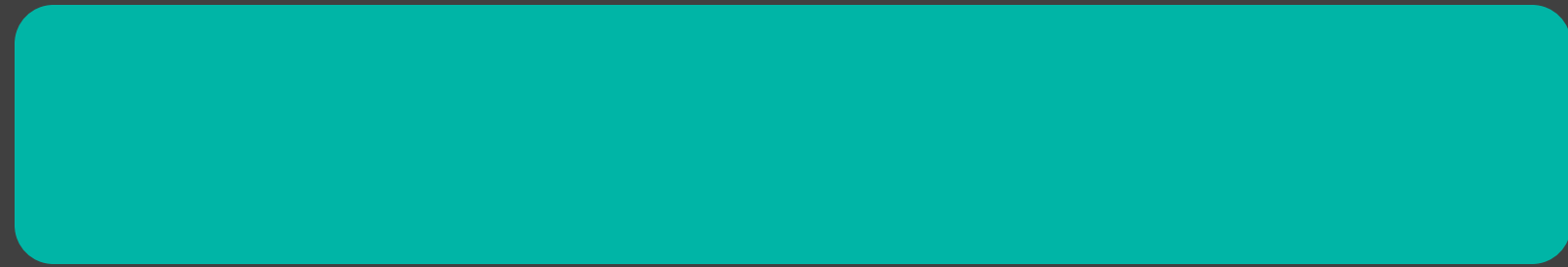
react native startup



pre-render js



network + server



js + render



native render



network + server

native render

Marketplace Startup

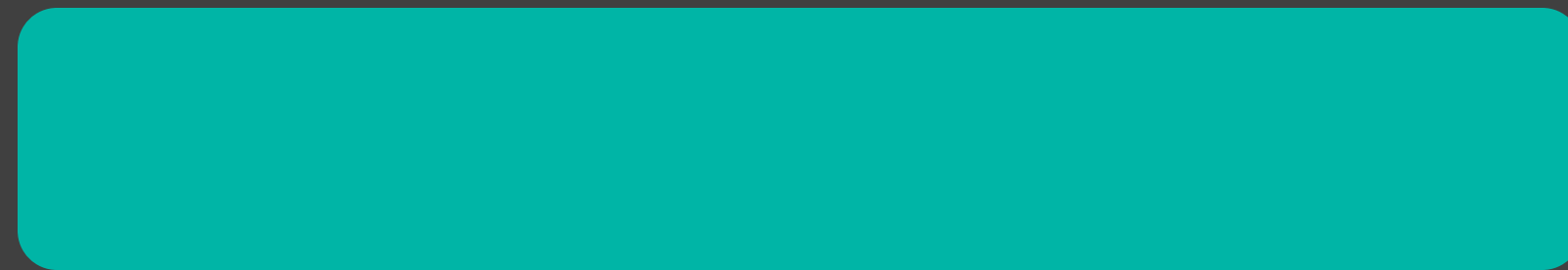
react native startup

pre-render js

js + render

native render

network + server



Marketplace Startup

H1 2019

react native startup



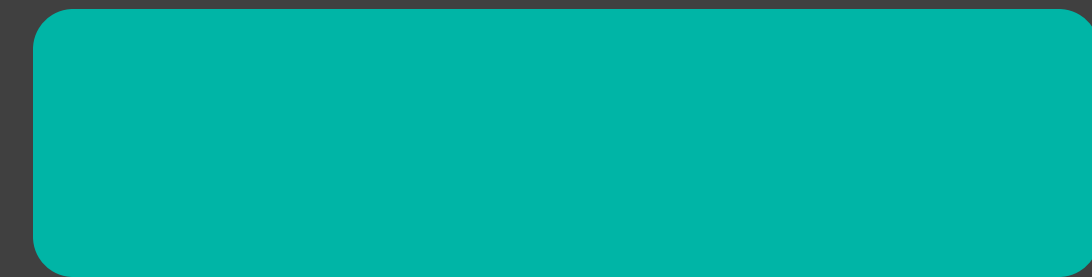
pre-render js



js + render



native render



network + server



Hermes

JavaScript Engine Optimized for
React Native



Hermes

JavaScript engine
optimized for React Native

[Start Using Hermes](#)



Faster App Launch

Marketplace

Sell Local Stores Vehicles

Today in Seattle

Crisis Response

What is Crisis Response?
Crisis Response lets people affected by crises tell friends they're safe, find or offer help and get the latest news and information.

Learn More >

People affected by The Tornado in Concepción, Biobío, Chile need your help

Vidar, we've partnered with GlobalGiving to raise money for people affected by The Tornado in Concepción, Biobío, Chile. [Learn how donations are used.](#)

DONATE

Around the World

on Wednesday **The Stampede at Mahamasina Municipal Stadium, Antananarivo, Madagascar**

Media sources report that at least 15 people were killed and 80 others injured during a stampede at a ceremony that was held at Mahamasina Municipal Stadium. The in...

190 people offered help

Oculus Quest

\$24.99

Essentials to get you started

See All

Beat Saber \$19.99	Moss \$29.99	Dead \$19.9

Oculus Collections

See All

Blood Donations

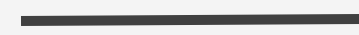
Become a Blood Donor on Facebook

- Get notified when nearby blood banks need your help.
- Connect with nearby blood banks that support your community.
- Inspire friends to donate blood so they can help save lives too.

SIGN UP

By tapping Sign Up, you agree to our [Donor Terms](#)

Primary Mobile Metrics



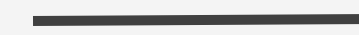
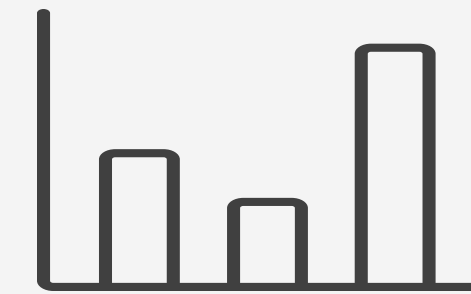
TTI

Time to Interaction



APK

Application Size



Memory

Memory Utilization

Primary Mobile Metrics



TTI

Time to Interaction

↓ 2.29s

Stock RN: 4.30s

Hermes RN: 2.01s



APK

Application Size

↓ 19mb

Stock RN: 41mb

Hermes RN: 22mb



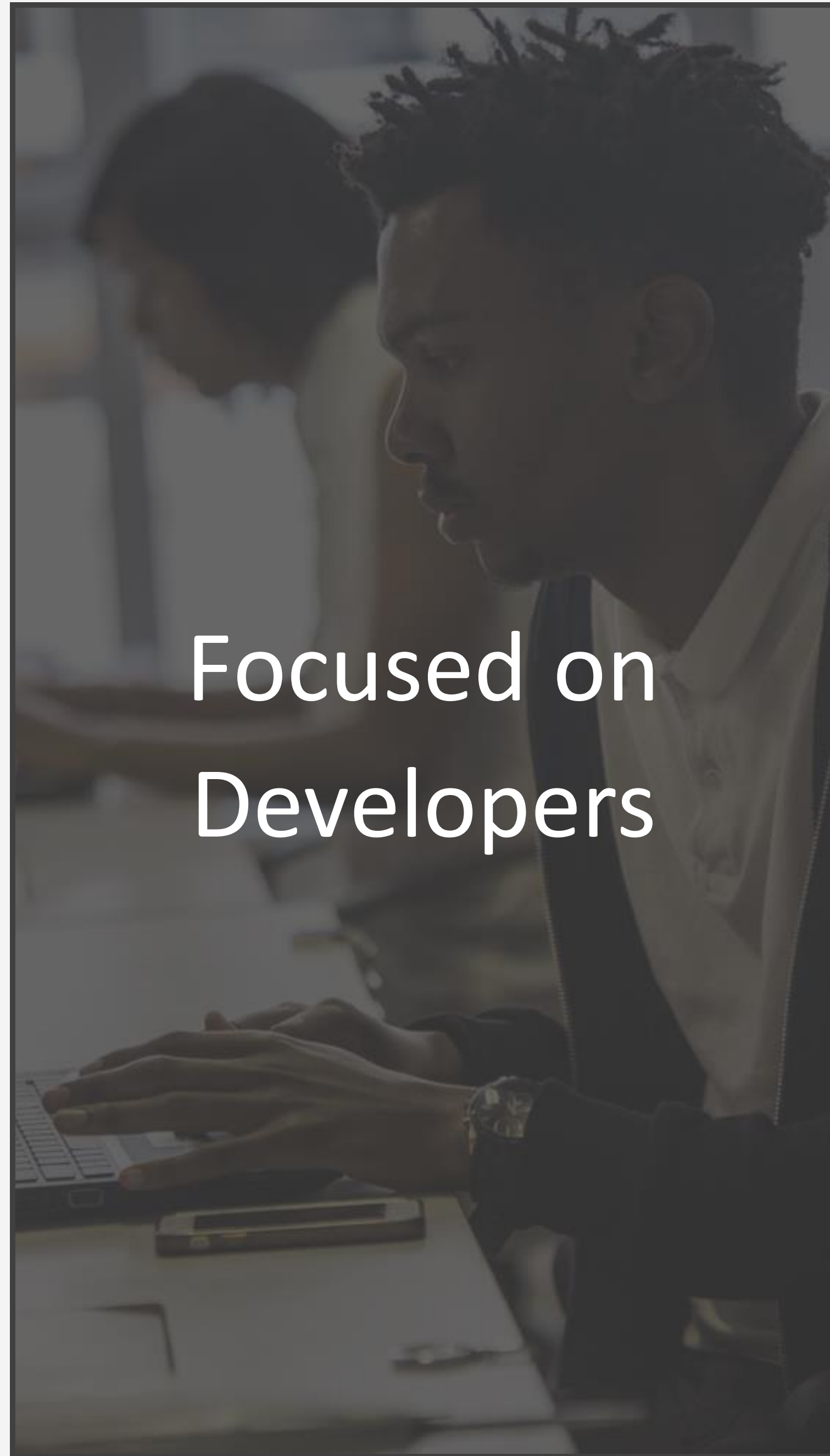
Memory

Memory Utilization

↓ 49mb

Stock RN: 185mb

Hermes RN: 136mb



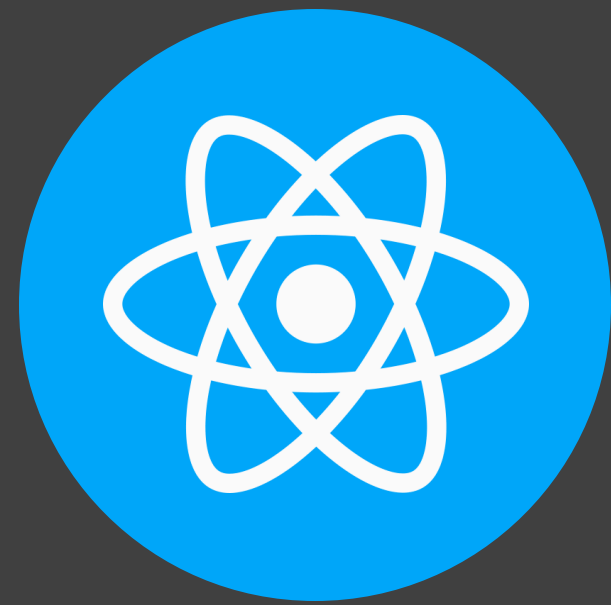
Focused on
Developers



Designed for
Scale

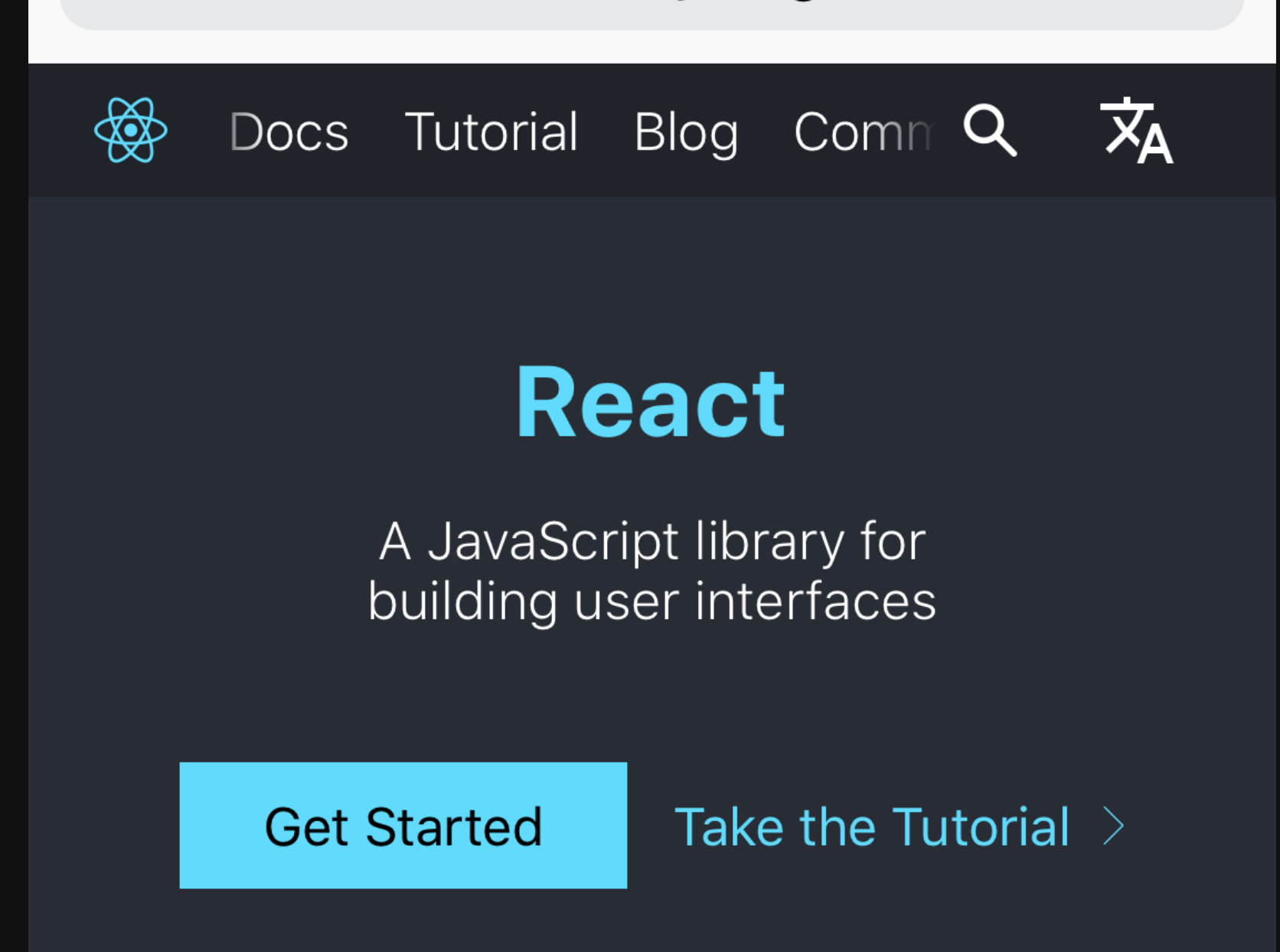


Built in
Community



React

A Declarative Way to Build UI



Declarative

React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.

Declarative views make your code

Compos

Build UIs that make compos UIs.

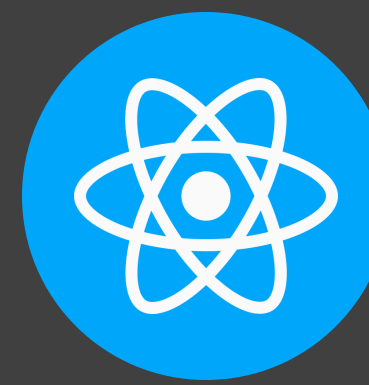
Since c in JavaS you can through



React Developers

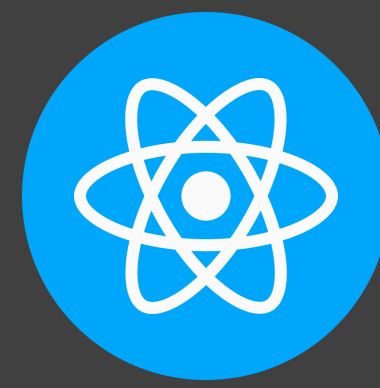
1,800,000+



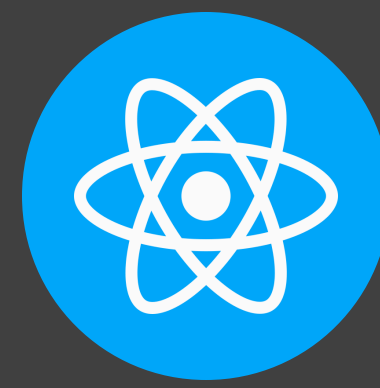


Top contributors on GitHub

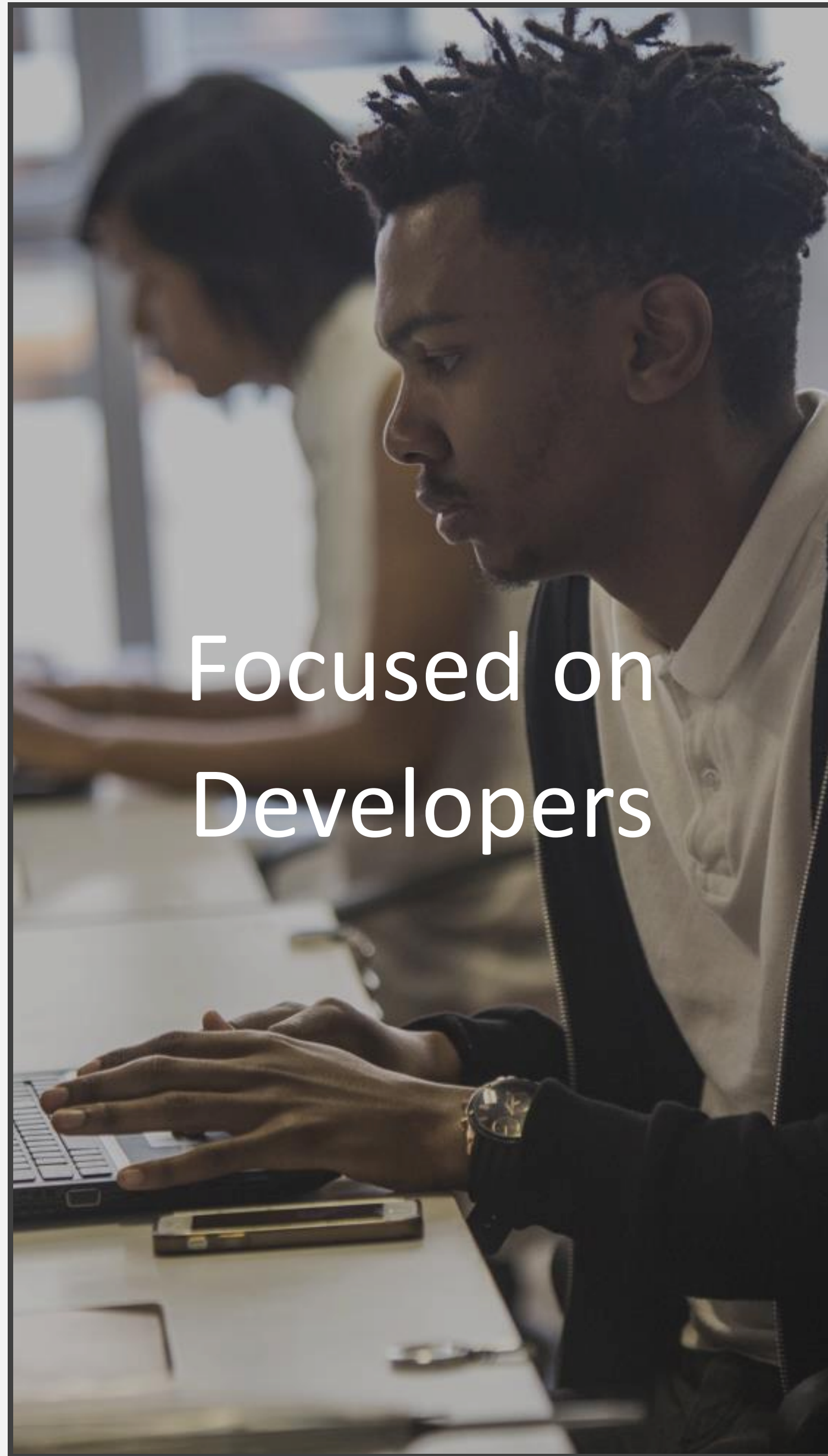
NUMBER OF CONTRIBUTORS TO OPEN SOURCE PROJECTS		
01	microsoft/vscode	19.1k
02	MicrosoftDocs/azure-docs	14k
03	flutter/flutter	13k
04	firstcontributions/first-contributions	11.6k
05	tensorflow/tensorflow	9.9k
06	facebook/react-native	9.1k
07	kubernetes/kubernetes	6.9k
08	DefinitelyTyped/DefinitelyTyped	6.9k
09	ansible/ansible	6.8k
10	home-assistant/home-assistant	6.3k



Responded to almost **500 issues** and closed about **300**



Merged over 600 PRs



Focused on
Developers



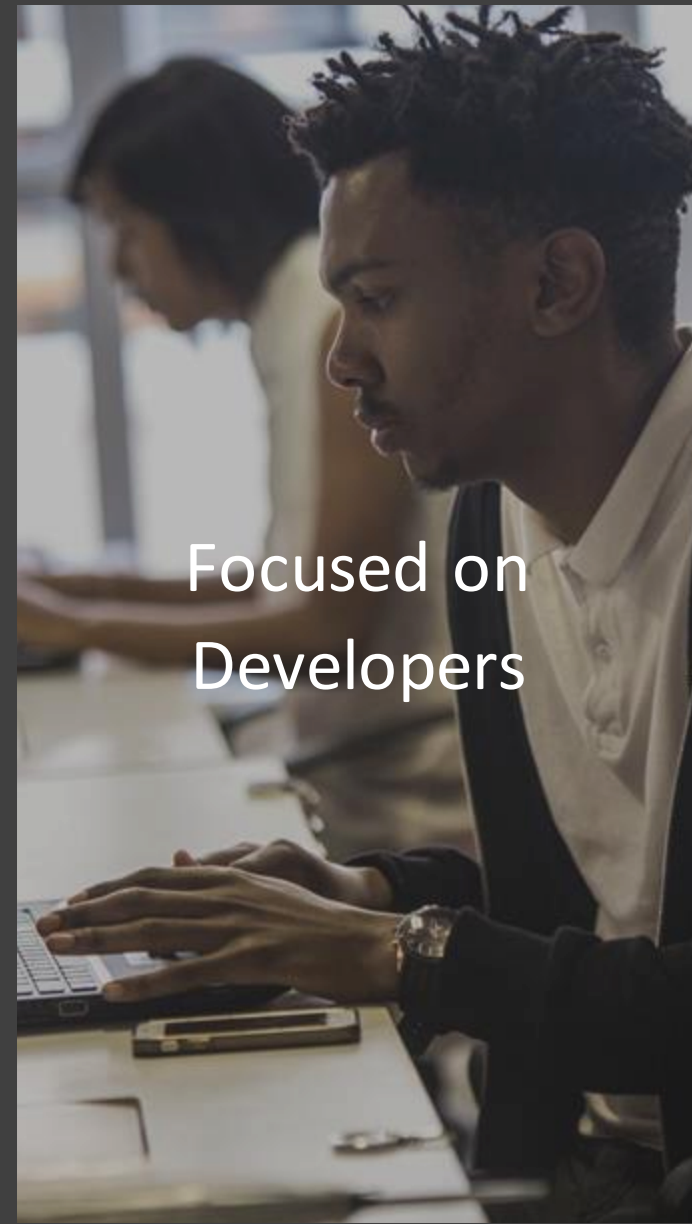
Designed for
Scale



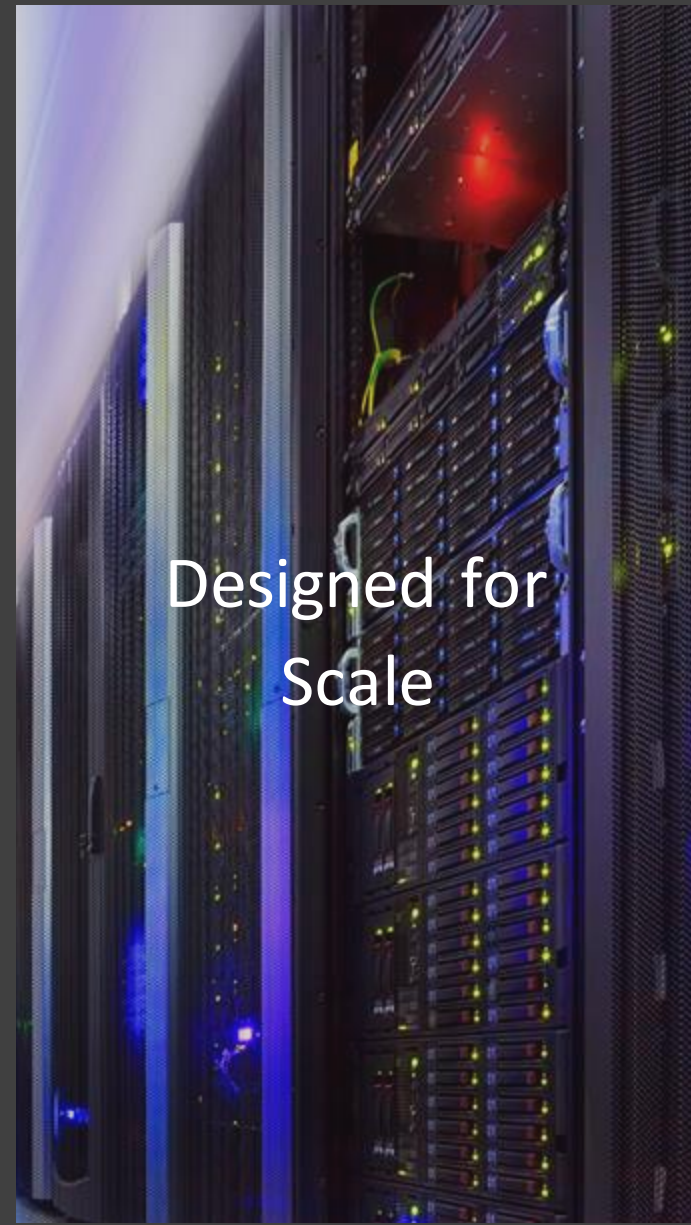
Built in
Community



Facebook
Open Source



Focused on
Developers



Designed for
Scale



Built in
Community

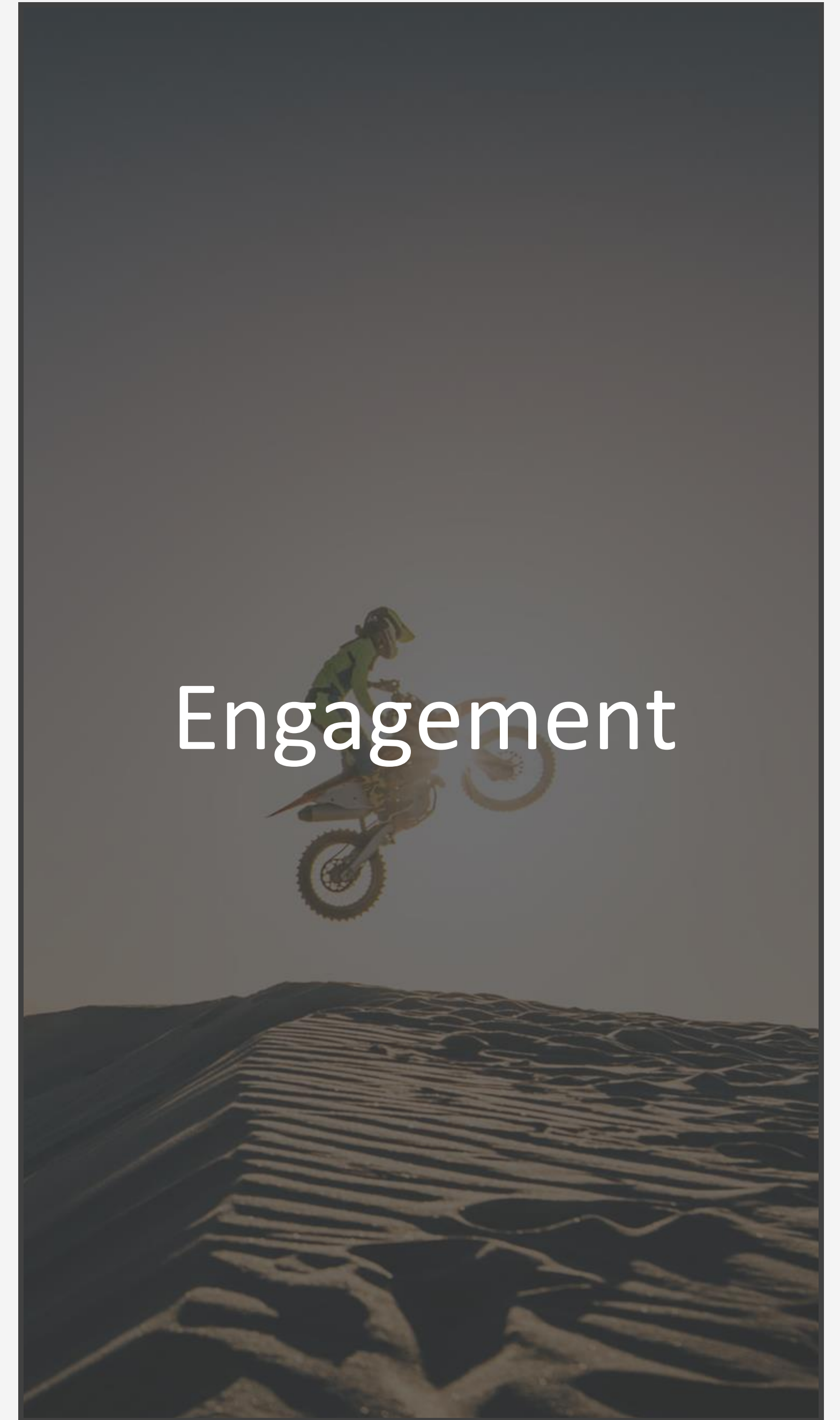
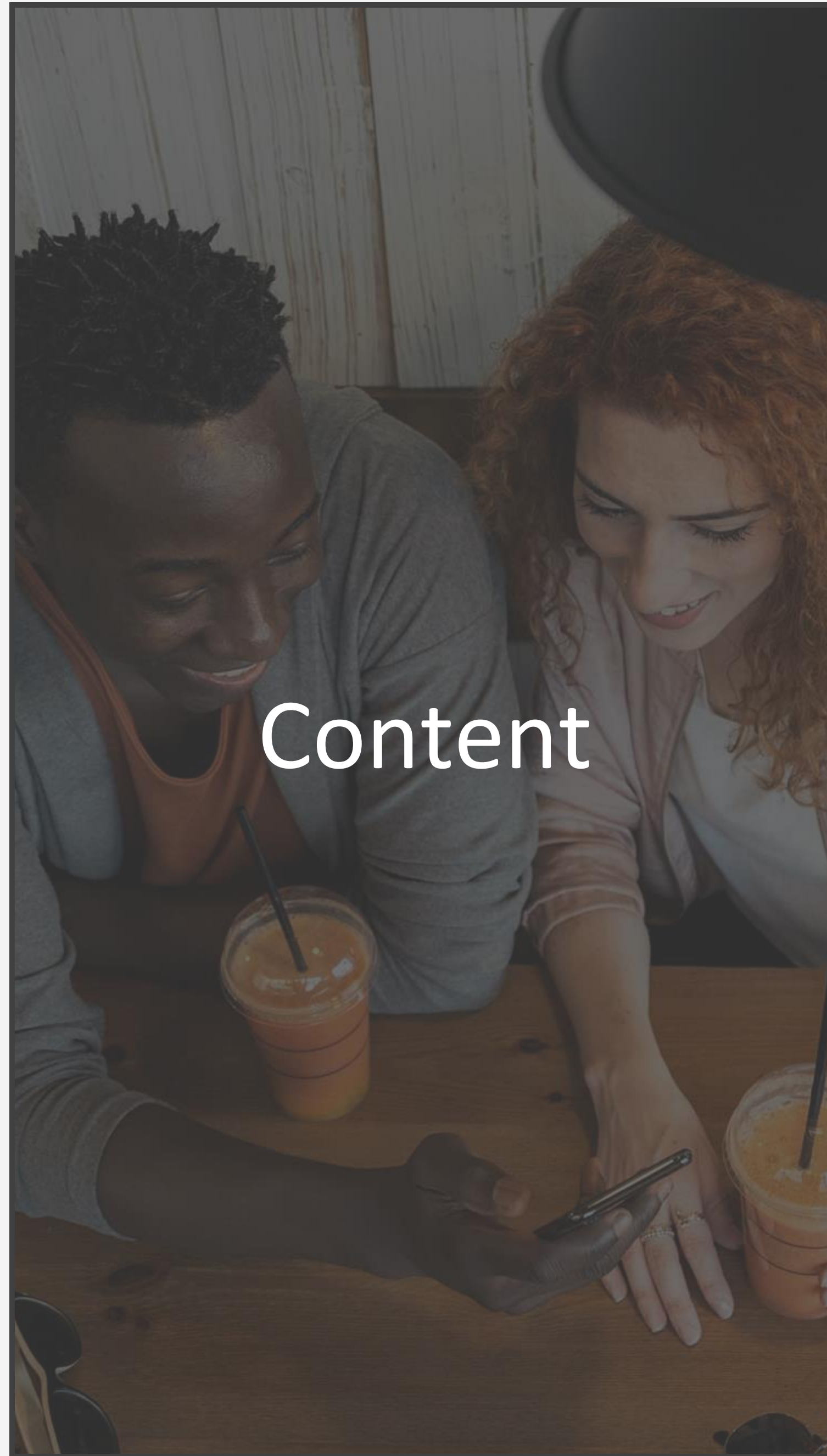


Advocacy

Open Source Team

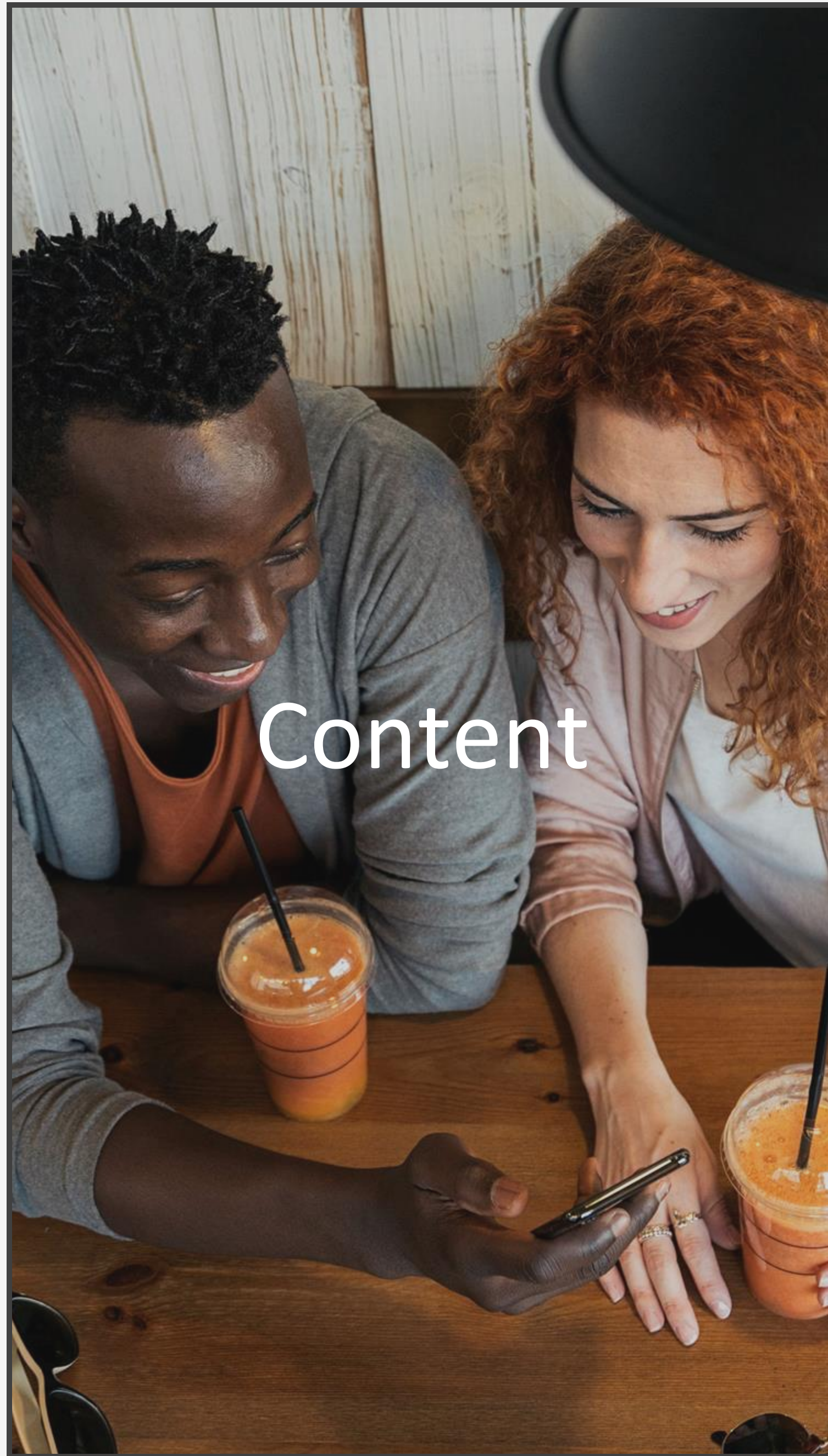


Tooling

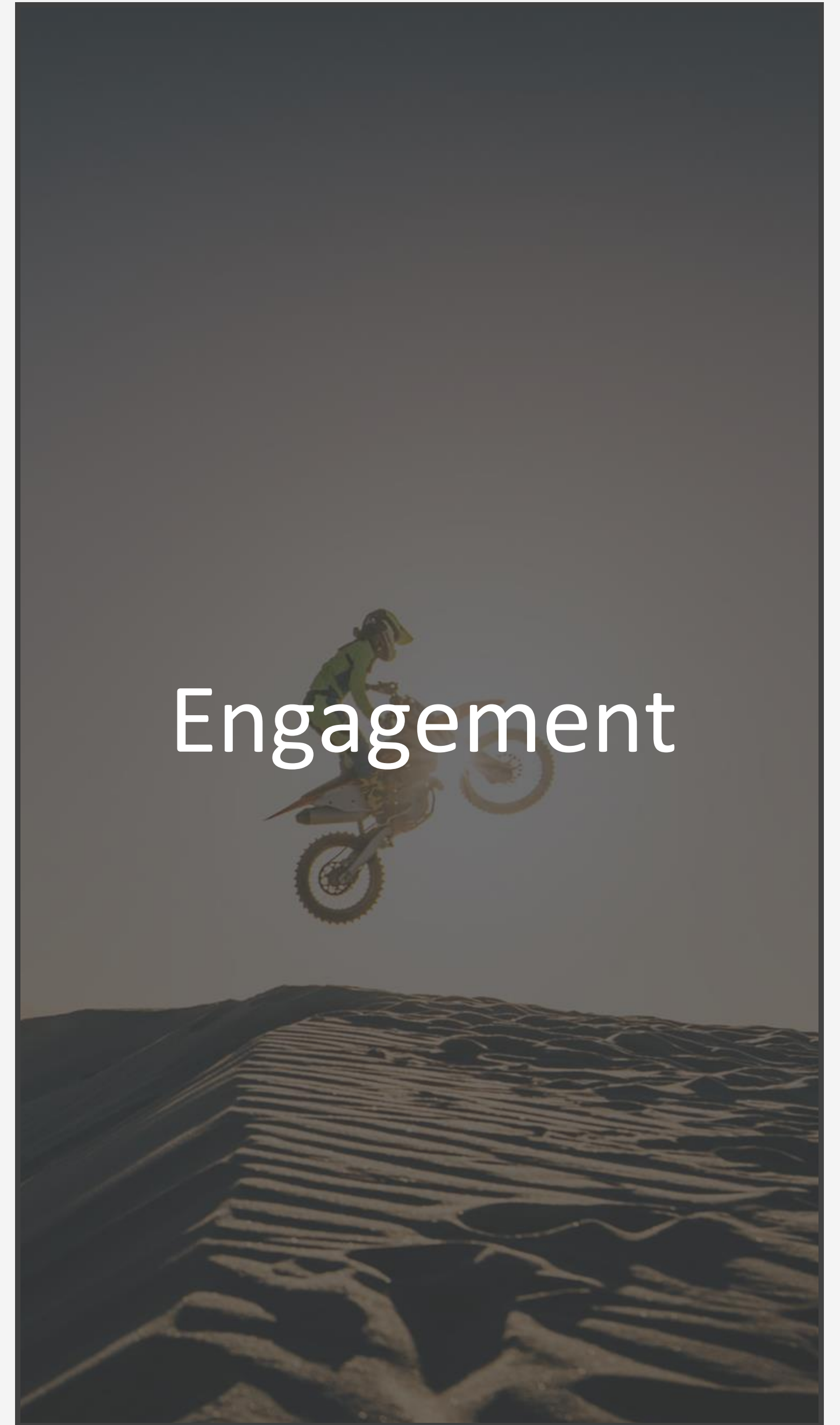




Narrative and
Roadmap



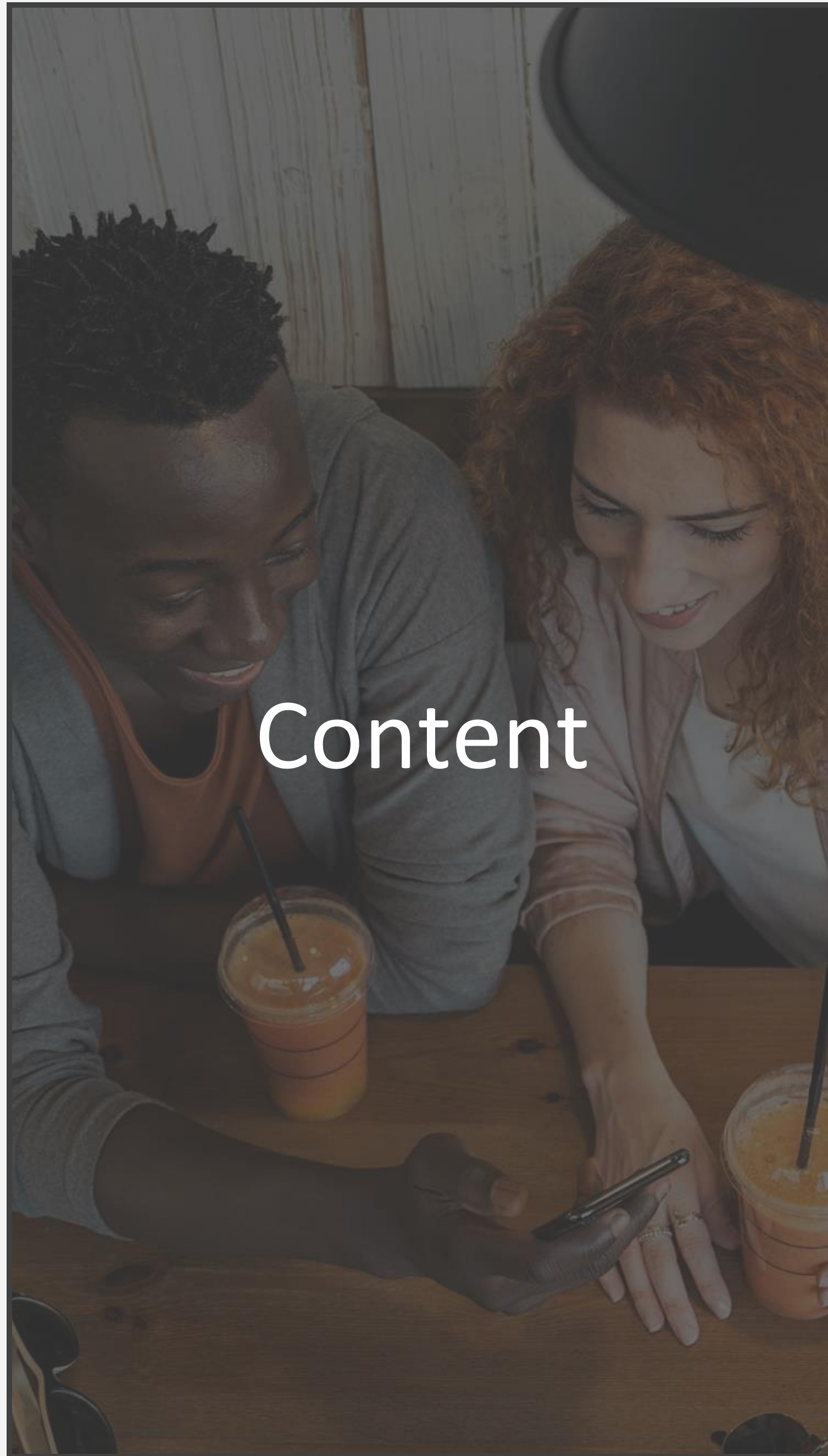
Content



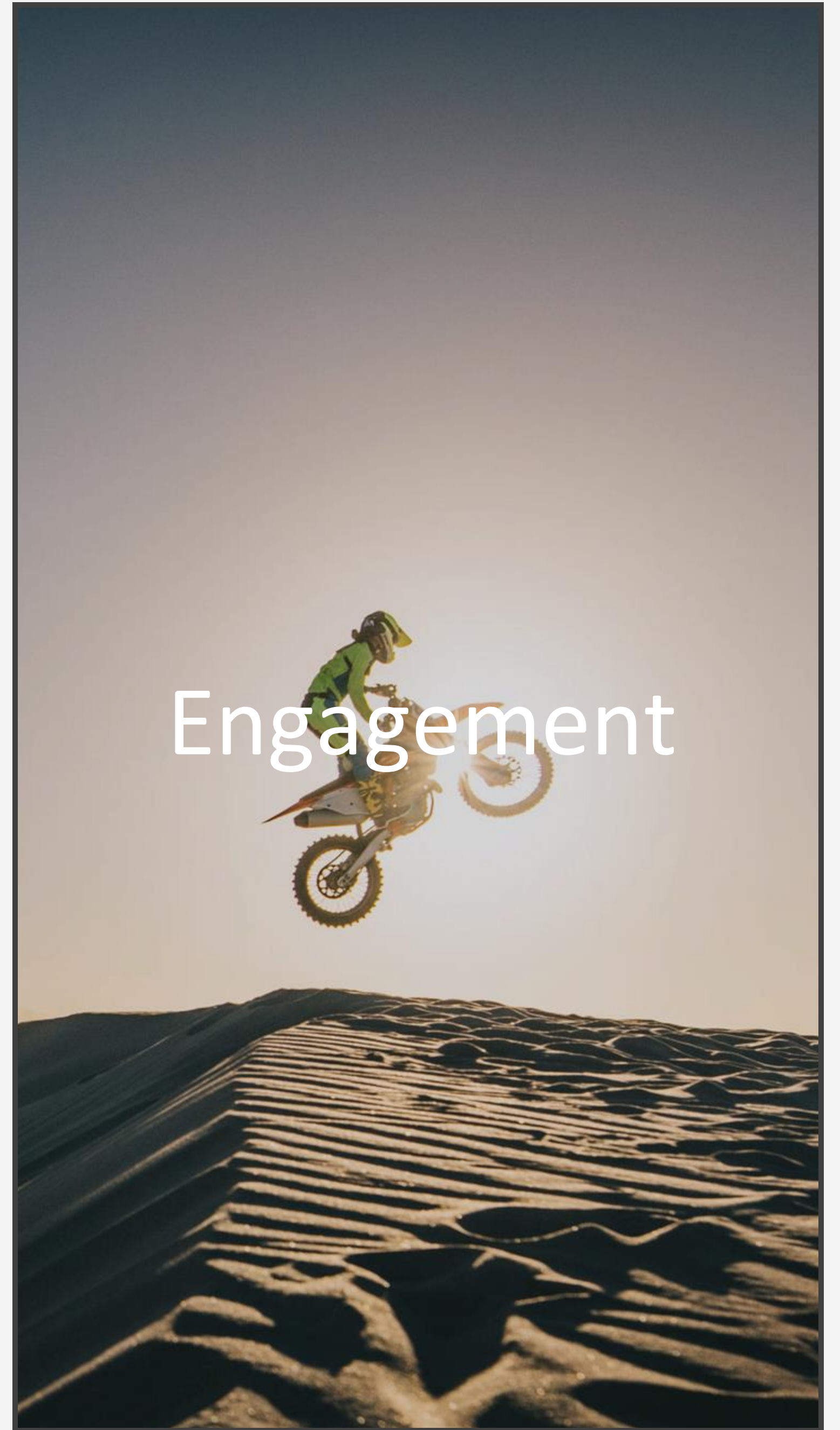
Engagement



Narrative and
Roadmap



Content



Engagement

Repo Profile Page

The screenshot shows a browser window displaying the GitHub repository profile for 'docusaurus'. The browser's address bar shows the URL: `our.internmc.facebook.com/intern/opensource/github/repo/1419990474749934/`. The page title is 'Repos > docusaurus > Summary'. A notification banner at the top right says: 'Need help managing your incoming pull requests? Check out our new Pull Request Command Center dashboard for docusaurus.'

Basic info

- On Github** [facebook/docusaurus](#)
- Homepage** <https://docusaurus.io>
- Description** Easy to maintain open source documentation websites.
- CircleCI Build Status**
- Owner** Joel Marcey
- Oncall** Docusaurus
- GitHub teams** Team docusaurus (Push)
- Elsewhere** [Twitter](#) · [Hashtag](#) · [Stack Overflow](#)
- Pillars** development tools
- Tags** web · infra · framework · development · opensource
- Language** JavaScript
- Size** 55359
- Watchers** 13095
- Forks** 1171
- Issues** 50
- Non-PR Issues** 44
- Pull requests** 6
- Commits** 3339
- Topics** documentation · javascript · open-source · react · website

All 6 open pull requests

CLA	#	Contributor	Author	Name	Created
✓	1756	皋玮	wgao19	docs(v2): make double nested s...	2019-08-12
✓	1755	Shirshendu Bhowmick	shirshendubhowmick	refactor(v2): convert SearchBa...	2019-08-11
✗	1754		cameron-elliott	Work around for live reload wi...	2019-08-10
✓	1740	Dongwoo Gim	gimdongwoo	fix: bug fix for `Show HTML ta...	2019-08-04
✓	1724	皋玮	wgao19	WIP docs(v2): lifecycle apis	2019-07-30
✓	1701	wener	wenerme	feat(v2): blog tags support cj...	2019-07-25

20 most recent open non-pull-request issues

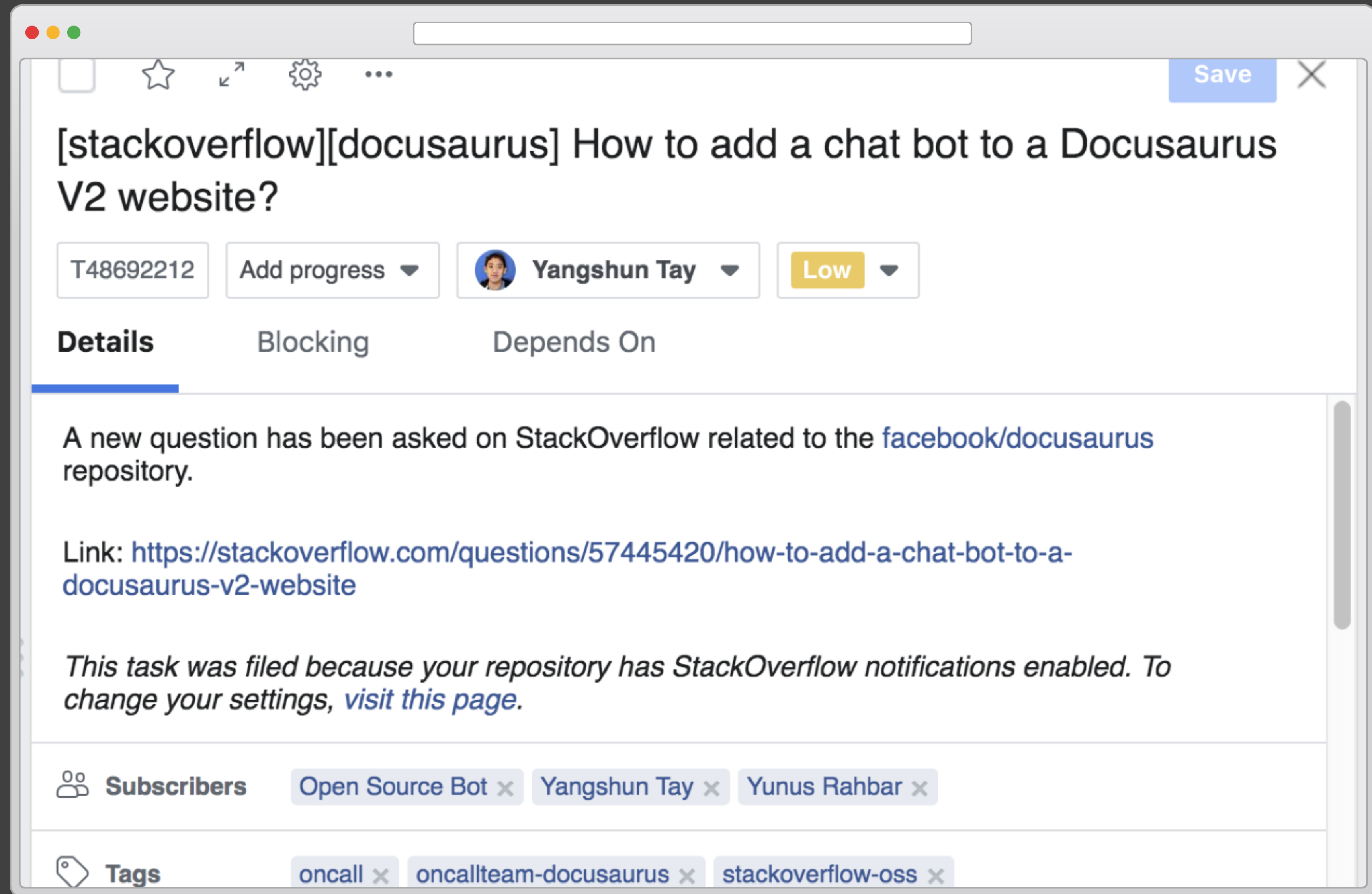
#	Contributor	Author	Name	Labels	Comments	Last Commenter	Cr
1757	Andrew Klein	ghost	how to build and deploy with g...		0		20
1753		cameron-elliott	--host and --port doesn't work...		3	cameron-elliott	20
1752		banli17	[v2] use primary color for hig...		1	wgao19	20
1749	Jay Martin	italicize	publish-gh-pages doesn't run a...		0		20
1748		chengtie	Not trim start trailing spaces...		0		20
1746	Andrew Coates	acoates-ms	Navigation Pane flickering, an...	difficulty: intermediate · help wanted · v1	2	endiliey	20
1745	Eric Nakaqawa	ericnakaqawa	Ignore ``\$` for clipboard copy		2	endiliey	20

Automated Checkup

The screenshot shows a web browser window with the URL `our.internmc.facebook.com/intern/opensource/github/repo/1419990474749934/checkup`. The page title is "Automated Checkup". Below the title, there is a paragraph explaining the purpose of the checkup and a "Run Automated Checkup" button. The main content is a table with columns for Status, Name, Action, Description, and Category.

Status	Name	Action	Description	Category
❗	Copyright Headers	Fix	Every project specific source file must contain a doc block with an appropriate copyright header. Unrelated files must be blacklisted using a SV.	Repo
⚠️	Inbound Task Synchronization	Do It	GitHub issues are not being synced to internal tasks.	Tooling
⚠️	Shipt is Enabled	Do It	docusaurus does not have Shipt enabled.	Tooling
⚠️	Shipt is Set Up	Do It	docusaurus does not have a working Shipt executable.	Tooling
✅	GitHub Issues Enabled	👍	Issues for the project are set up.	GitHub
✅	Ownership Information	👍	The project's ownership information is filled out correctly.	Tooling
✅	GitHub Description	👍	docusaurus has a description set on GitHub.	GitHub
✅	Vulnerabilities	👍	GitHub has detected no vulnerabilities associated with this project.	Tooling
✅	Shipt Verifies	👍	GitHub and our internal version of docusaurus are in sync.	Tooling
✅	LICENSE File	👍	docusaurus has a LICENSE file.	Repo
✅	CONTRIBUTING File	👍	docusaurus has a CONTRIBUTING file.	Repo

Stack Overflow Integration



The screenshot shows a GitHub notification window. At the top, there are navigation icons (star, back, forward, gear, and menu) and a 'Save' button with a close icon. The main title of the notification is "[stackoverflow][docusaurus] How to add a chat bot to a Docusaurus V2 website?". Below the title, there are several interactive elements: a text box containing 'T48692212', a dropdown menu for 'Add progress', a user profile for 'Yangshun Tay', and a 'Low' priority dropdown. Below these are three tabs: 'Details' (which is selected), 'Blocking', and 'Depends On'. The 'Details' section contains the following text: "A new question has been asked on StackOverflow related to the [facebook/docusaurus](#) repository." followed by a link: "Link: <https://stackoverflow.com/questions/57445420/how-to-add-a-chat-bot-to-a-docusaurus-v2-website>". Below the link is a note: "This task was filed because your repository has StackOverflow notifications enabled. To change your settings, [visit this page](#)." At the bottom, there are two sections: 'Subscribers' with three tags: 'Open Source Bot', 'Yangshun Tay', and 'Yunus Rahbar'; and 'Tags' with three tags: 'oncall', 'oncallteam-docusaurus', and 'stackoverflow-oss'.

[stackoverflow][docusaurus] How to add a chat bot to a Docusaurus V2 website?

T48692212 Add progress Yangshun Tay Low

Details Blocking Depends On

A new question has been asked on StackOverflow related to the [facebook/docusaurus](#) repository.

Link: <https://stackoverflow.com/questions/57445420/how-to-add-a-chat-bot-to-a-docusaurus-v2-website>

This task was filed because your repository has StackOverflow notifications enabled. To change your settings, [visit this page](#).

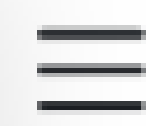
Subscribers Open Source Bot Yangshun Tay Yunus Rahbar

Tags oncall oncallteam-docusaurus stackoverflow-oss



Docusaurus

Easy to create and maintain open source documentation websites



Docusaurus



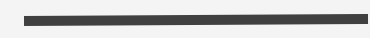
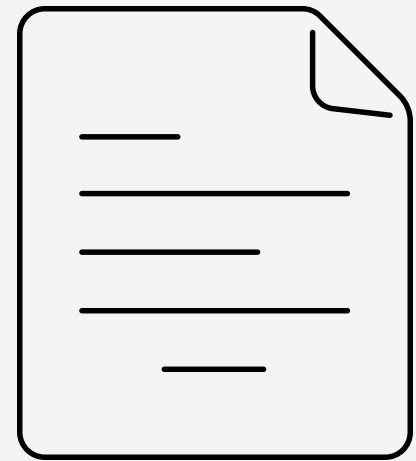
Search



**Docusaurus makes
it easy to maintain
Open Source
documentation
websites.**

GET STARTED

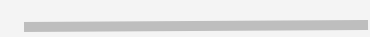
Features



Markdown

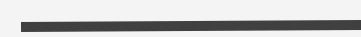
Save time and
focus on your
project's
documentation

Features



Markdown

Save time and focus on your project's documentation



Search

Make it easy for your community to find they need

Features



Markdown

Save time and focus on your project's documentation



Search

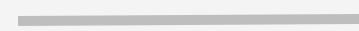
Make it easy for your community to find they need



Localization

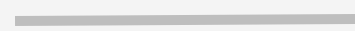
Translate your docs into over 70 languages

Features



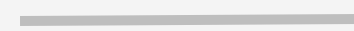
Markdown

Save time and focus on your project's documentation



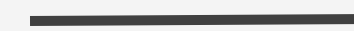
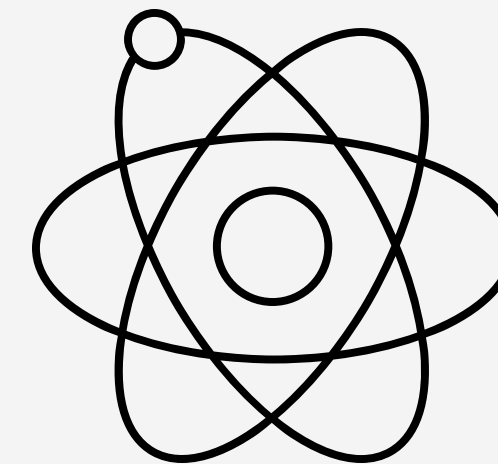
Search

Make it easy for your community to find they need



Localization

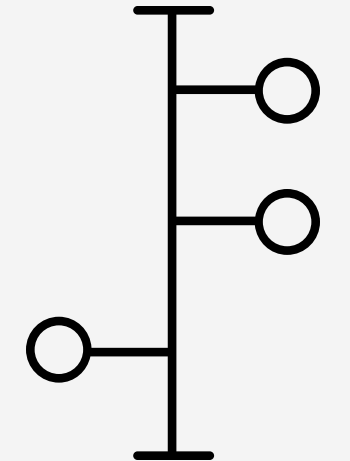
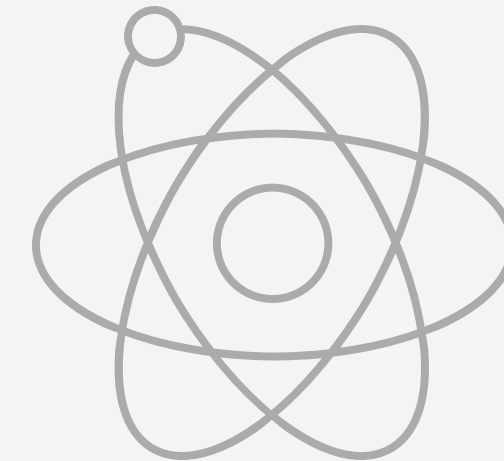
Translate your docs into over 70 languages



React

Change the look and feel of the website using React

Features



Markdown

Save time and focus on your project's documentation

Search

Make it easy for your community to find they need

Localization

Translate your docs into over 70 languages

React

Change the look and feel of the website using React

Versioning

Support users on all versions of your project

Follow @reactnative

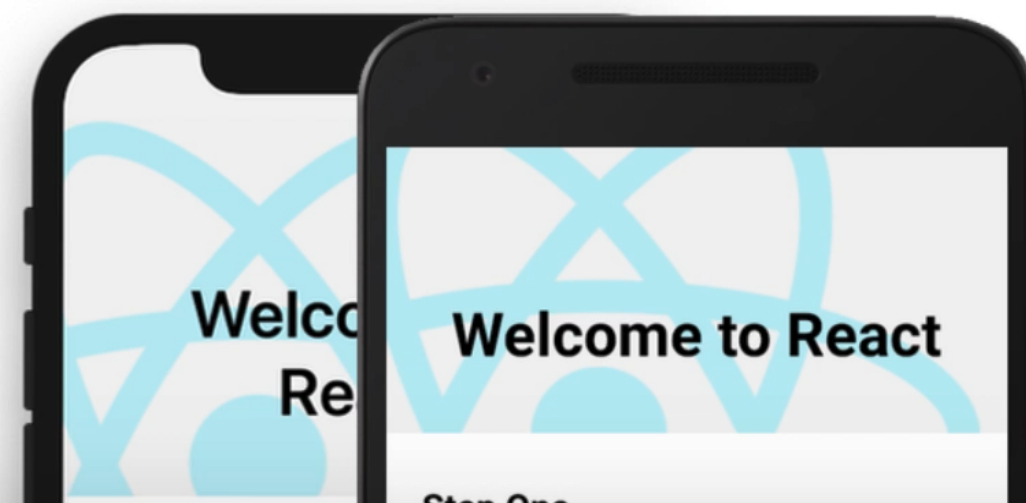
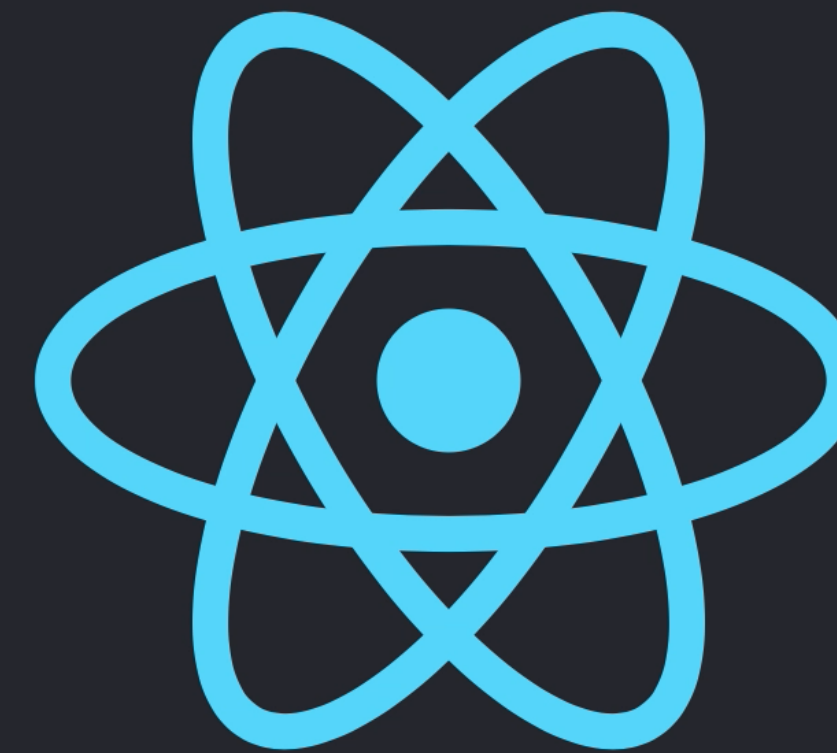
Star

React Native

Learn once, write anywhere.

Get started

Learn basics >



Create native apps for Android and iOS using React

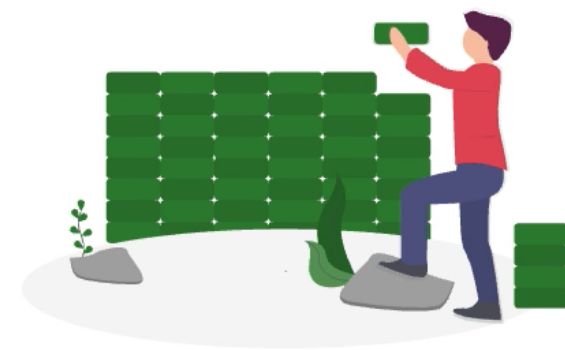
React Native combines the best parts of native development with React, a best-in-class JavaScript library for building user interfaces.



Flux

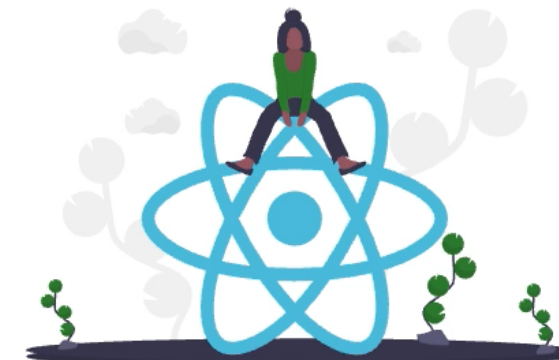
Application architecture for building user interfaces

[Get Started](#)



What is Flux?

Flux is the application architecture that Facebook uses for building client-side web applications.



What does it do?

It complements React's composable view components by utilizing a unidirectional data flow.



How do I use it?

It's more of a pattern rather than a formal framework, and you can start using Flux immediately without a lot of new code.

A man and a woman are sitting on stone steps outdoors. The man, on the left, is wearing a light blue long-sleeved shirt and dark pants. He is pointing at a smartphone held by the woman on the right. The woman is wearing a light blue long-sleeved shirt and dark pants. She is smiling and looking at the phone. The background consists of stone steps and a wall.

For more information:

opensource.facebook.com



Thank You!

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