BPF.LI/S

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APRIL 7, 2021

HOW SHOULD JAVA DEVELOPERS BUILD FRONT-ENDS FOR WEB, MOBILE, AND DESKTOP TODAY?

SLIDES & VIDEOS

EXTRA INFORMATION

FEEDBACK

GET STARTED!

NEWSLETTER

HTTPS://BPF.LI/VIA

AGENDA

HOW CAN WE BUILD FRONT-ENDS TODAY?

WHAT DO WE JAVA DEVELOPERS WISH FOR?

WEB: NEW WEB APPLICATION

MOBILE: NEW NATIVE IOS & ANDROID APPS

DESKTOP: GOT WEB APPLICATION – WHAT NOW?

I GIVE ADVICE. . .

. . . SO WHAT'S MY ANGLE?

22 YEARS

3 PROJECTS

CRITERIA

NO COURSES/BOOK

I GIVE YOU OPTIONS...

YOUR CRITERIA

YOUR ENVIRONMENT

YOUR DECISION

YOU DECIDE!

HOW CAN WE BUILD FRONT-ENDS TODAY?

WHAT DO WE JAVA DEVELOPERS WISH FOR?

WEB: NEW WEB APPLICATION

MOBILE: NEW NATIVE IOS & ANDROID APPS

DESKTOP: GOT WEB APPLICATION – WHAT NOW?

HOW CAN WE BUILD FRONT-ENDS TODAY?

APPLICATIONS & DEVICES?

ENTERPRISE APPLICATIONS

FORMS, DATA GRIDS, REPORTS

NO GAMES/MEDIA PLAYERS

PC

MOBILE

HOW TO BUILD?

GO SAFE:
"STILL HERE IN 5 YEARS"

WEB

NATIVE

NATIVE

NATIVE

NATIVE

NATIVE

WEB	NATIVE
⊕ 1 CODEBASE	⊖ 5 CODEBASES
⊖ SLOWER	⊕ FAST
⊖ LESS FEATURES	⊕ ALL FEATURES
⊖ JAVASCRIPT	⊖ 5 LANGUAGES
⊖ DIFFICULT DEBUGGING	⊕ EASY DEBUGGING

- 1 CODEBASE
- FAST
- ALL FEATURES
- EASY DEBUGGING

CROSS-PLATFORM

ANGULAR (GOOGLE, 2016)

JSF (JAKARTA EE, 2004)

REACT (FACEBOOK, 2013)

THYMELEAF (2011)

VAADIN (VAADIN LTD., 2009)

VUE.JS (2014)

WEB FRAMEWORKS

FLUTTER (GOOGLE, 2018)

JAVAFX (GLUON, 2008)

REACT NATIVE (FACEBOOK, 2015)

XAMARIN (MICROSOFT, 2011)

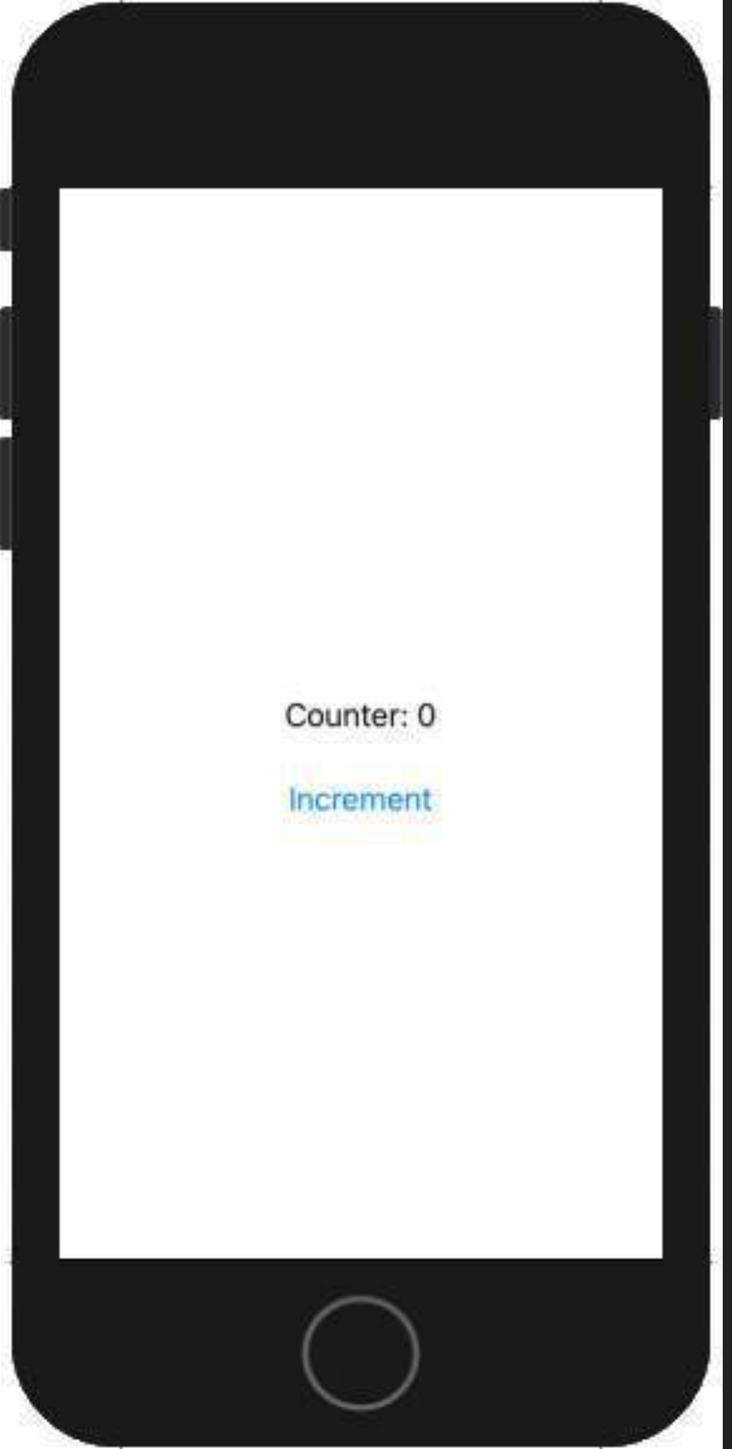
X-PLATFORM FRAMEWORKS

BAD PRICE/PERFORMANCE RATIO

NO NATIVE FRAMEWORKS

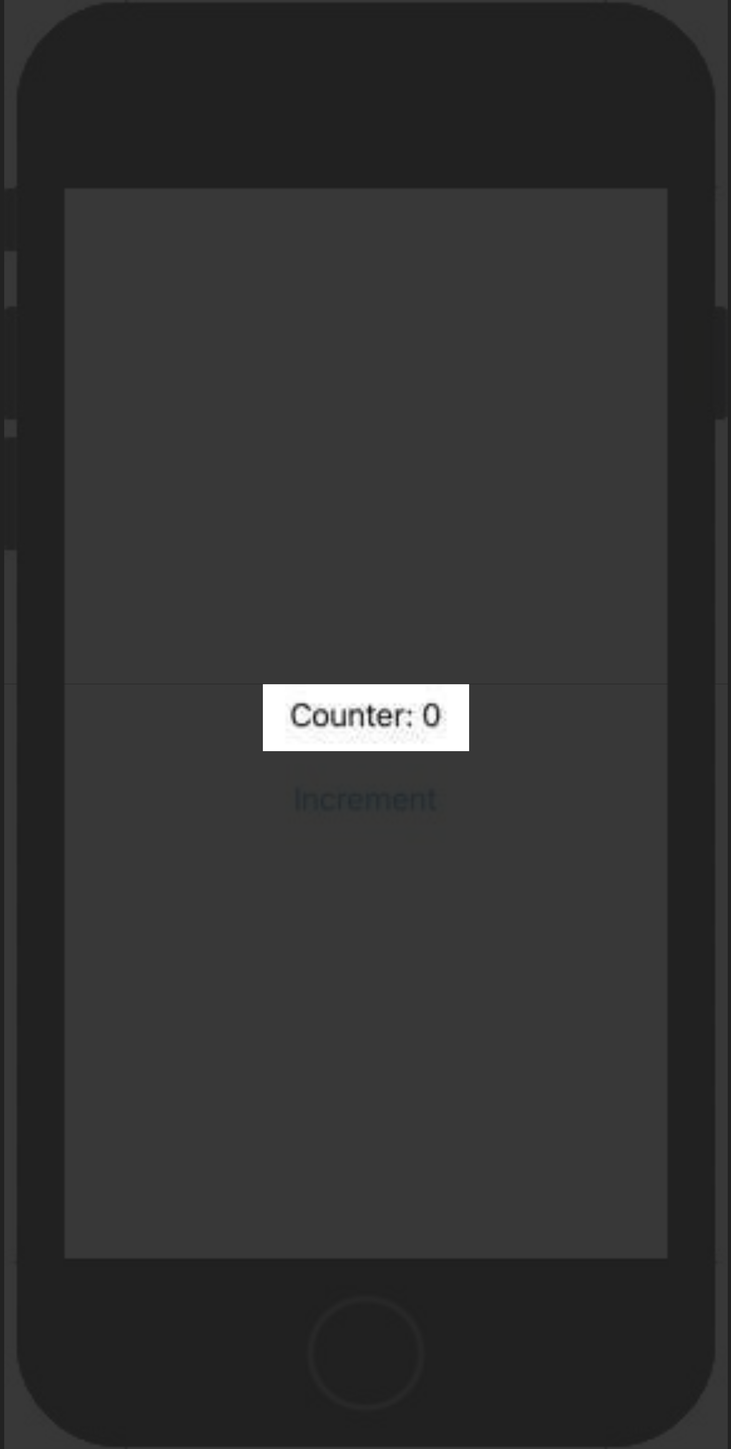
STATE OF THE ART:
DECLARATIVE

EXAMPLE:
APPLE SWIFTUI


Counter: 0
Increment

```
@State var count: Int = 0

var body: some
View {
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
        self.count += 1
      }, label: {
        Text("Increment")
      })
  })
}
```



```
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var body: some
View {
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
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      }, label: {
        Text("Increment")
      })
  })
}
```

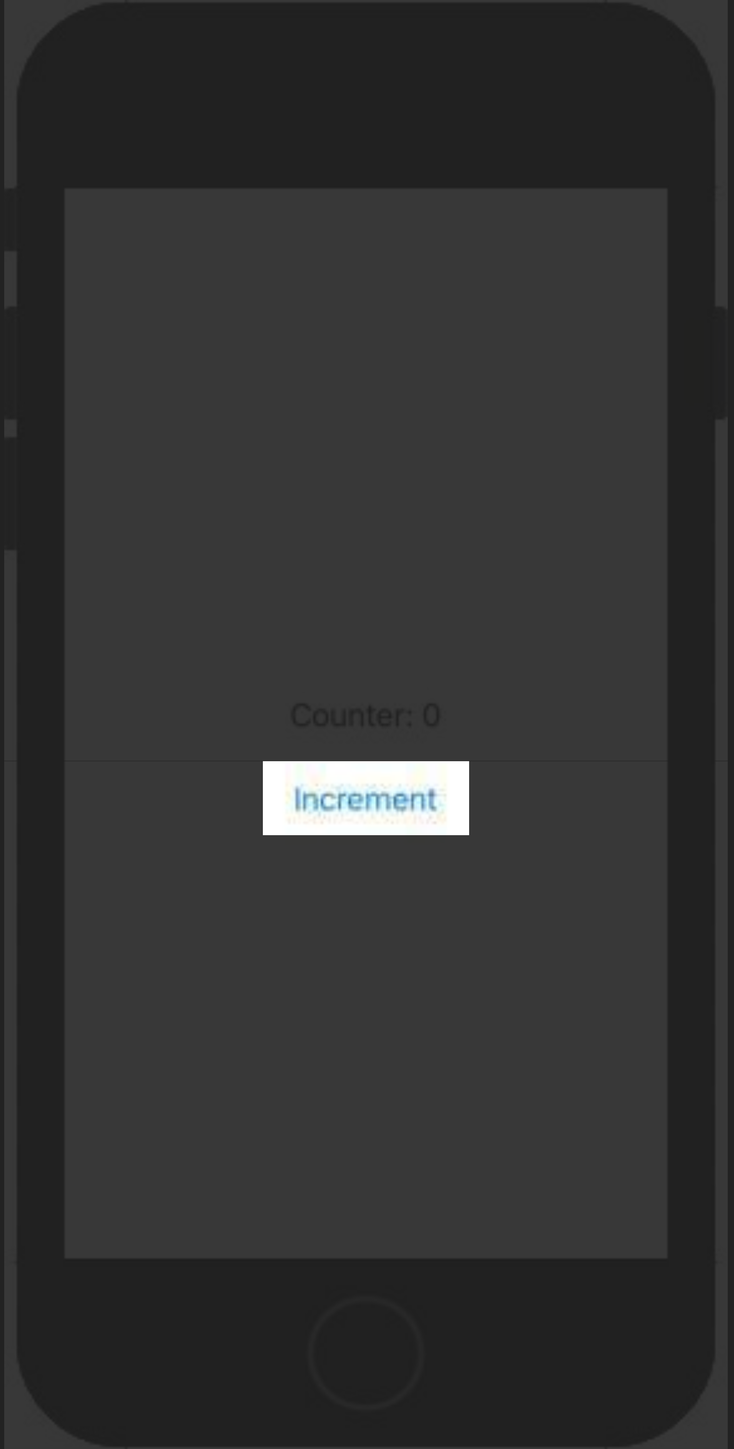

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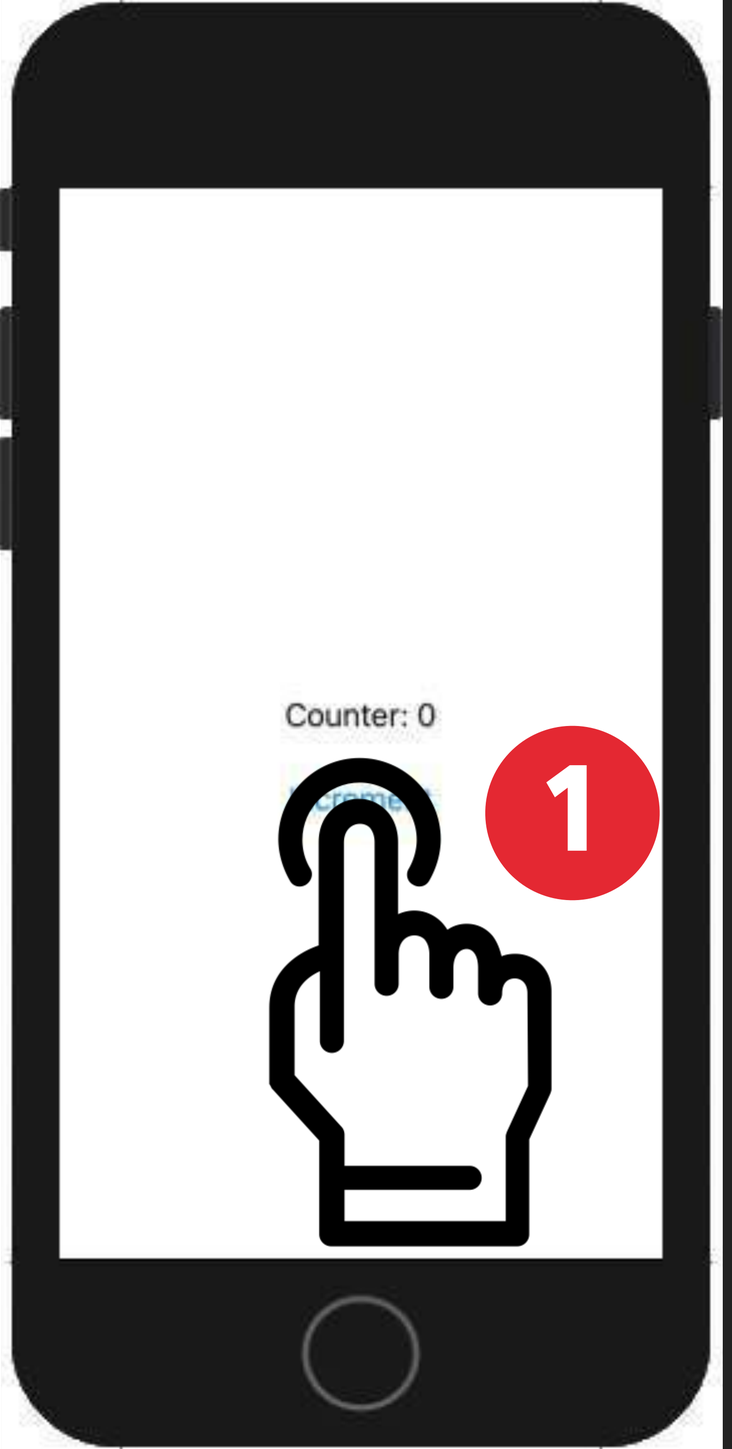
  })
}
```



```
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var body: some
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    content: {
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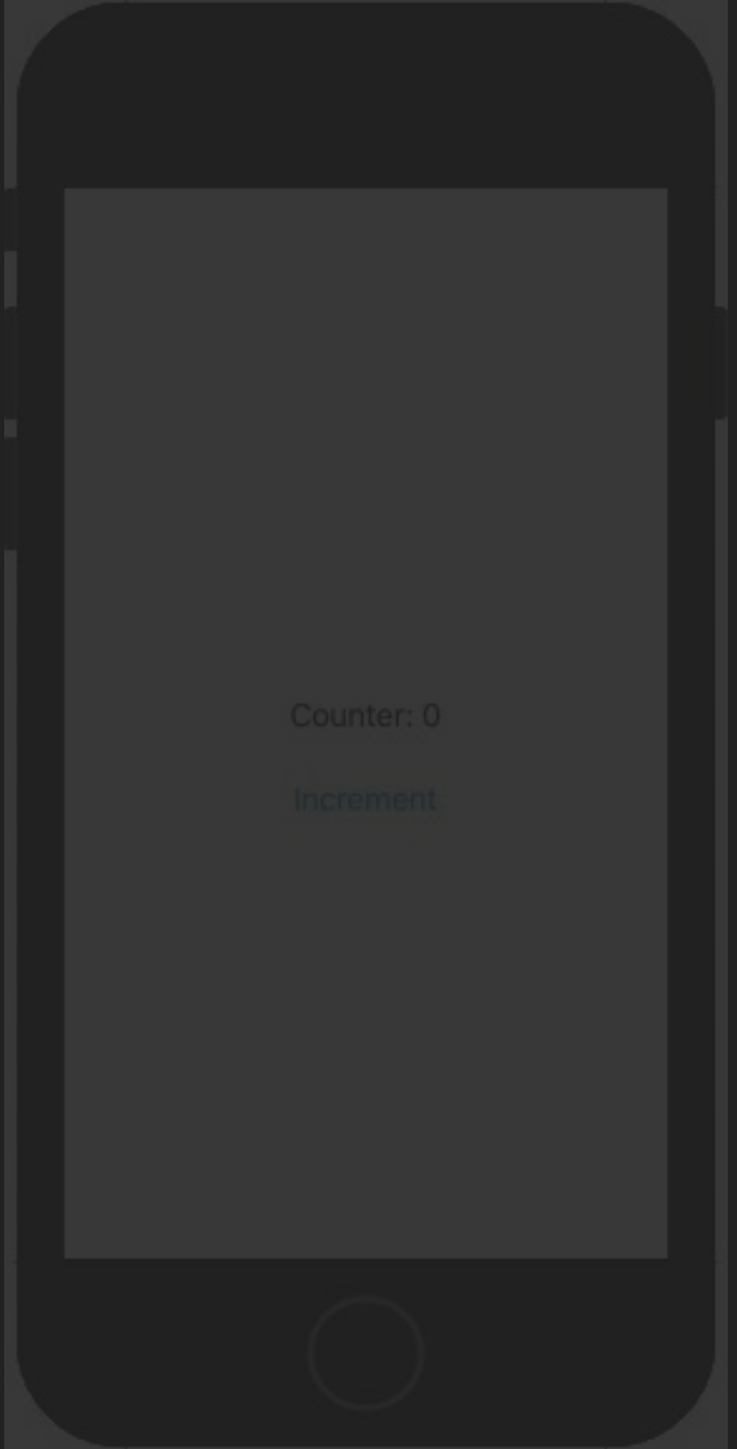
        .padding()
      Button(action: {
        self.count += 1
      }, label: {
        Text("Increment")
      })
  })
}
```

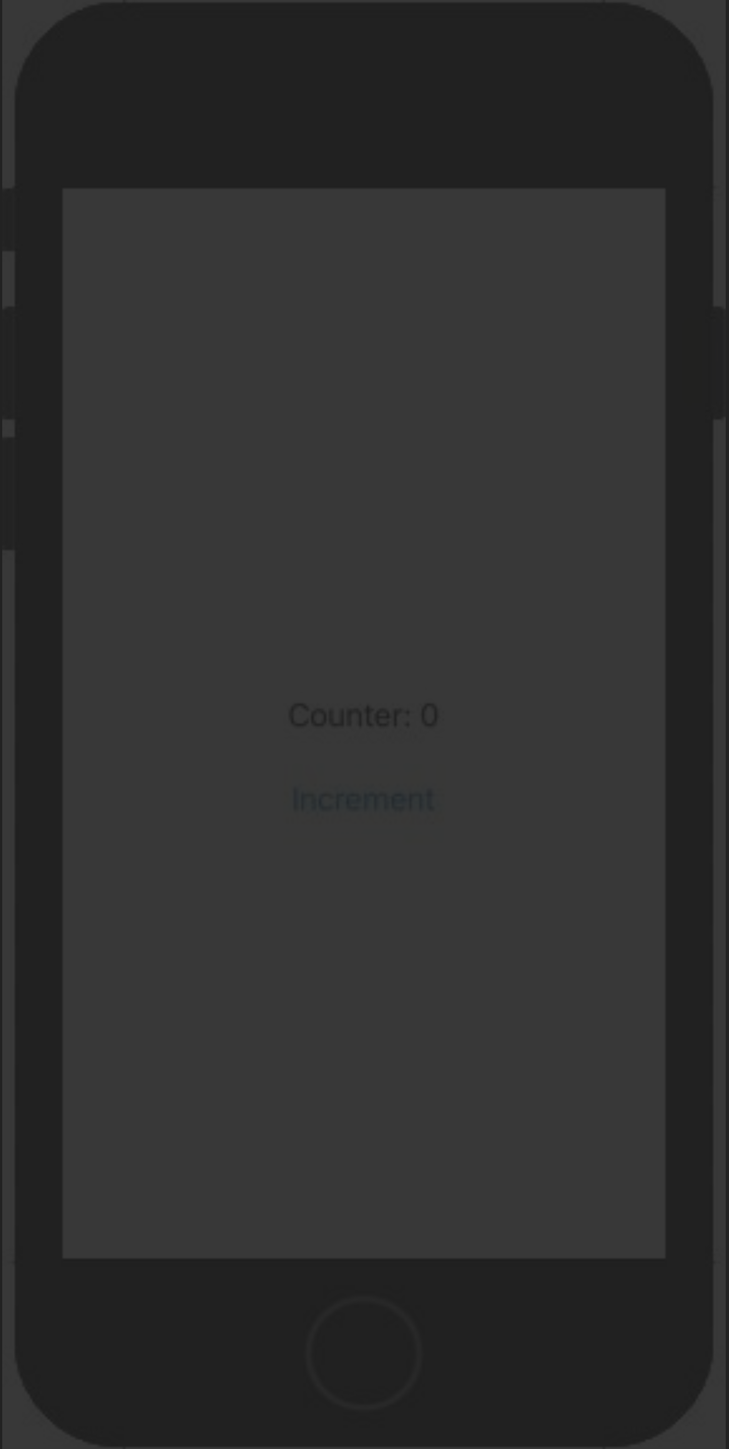
2



```
@State var count: Int = 1
```

3

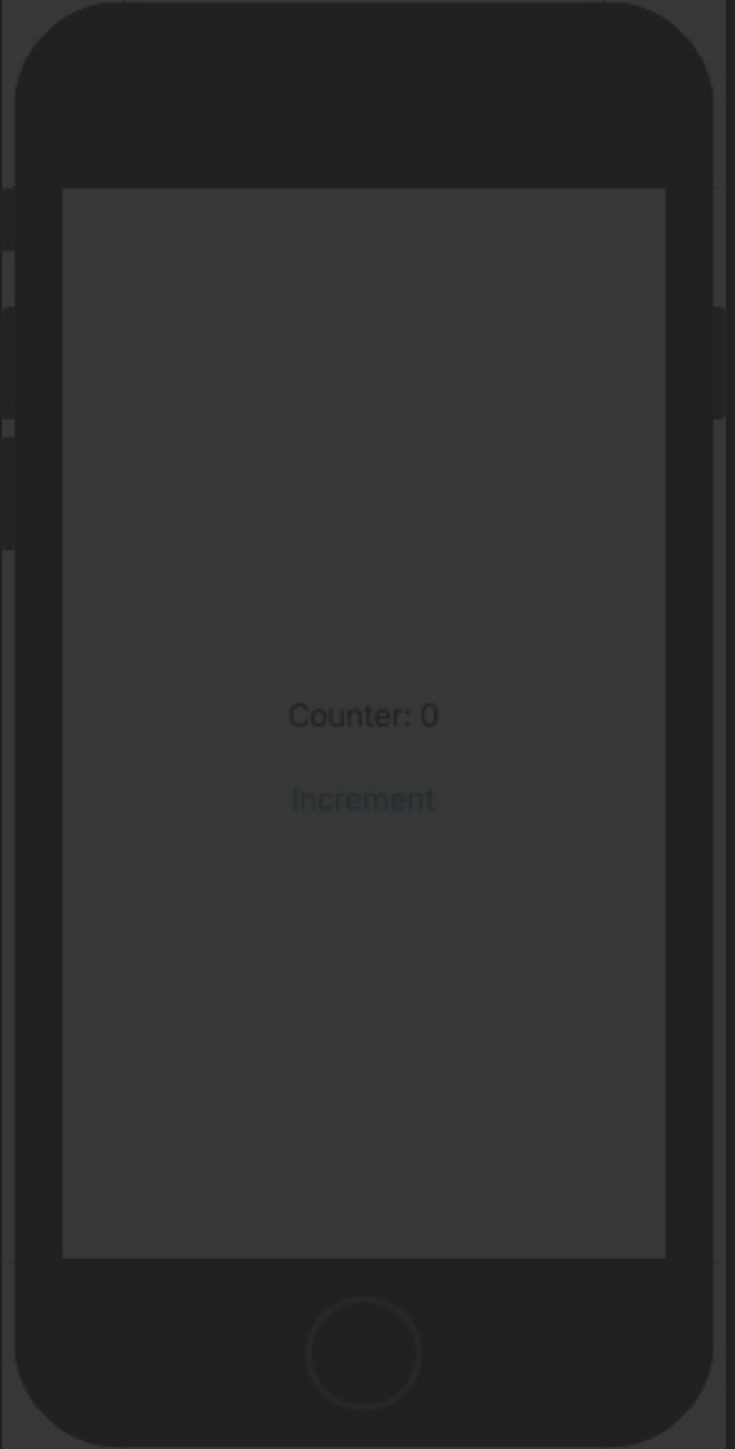
```
var body: some
View {
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
        self.count += 1
      }, label: {
        Text("Increment")
      })
  })
}
```



```
@State var count: Int = 1

var b[illegible]: some
View
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
        self.count += 1
      }, label: {
        Text("Increment")
      })
  })
}
```

4



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var body: some
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  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
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      }, label: {
        Text("Increment")
      })
  })
}
```
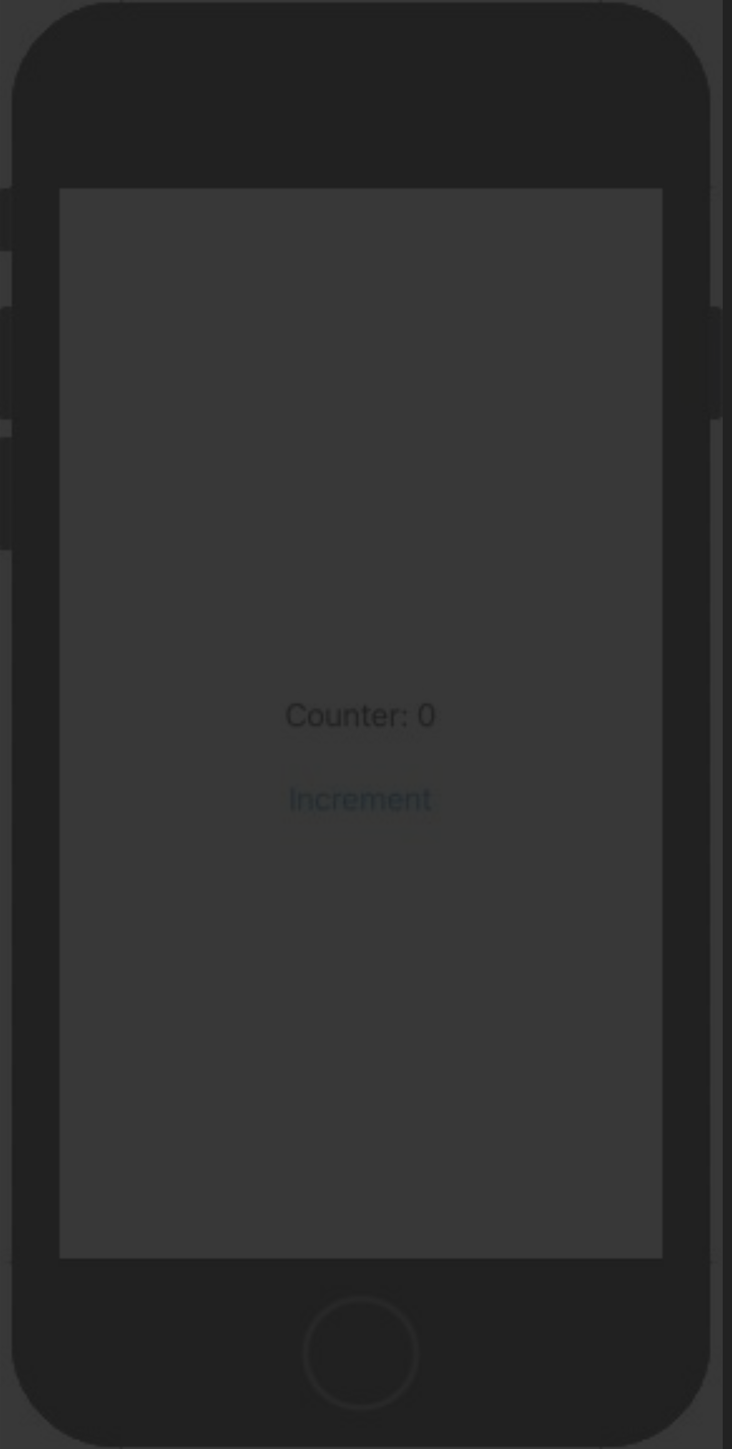

5



```
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var body: some
View {
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
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      })
  })
}
```
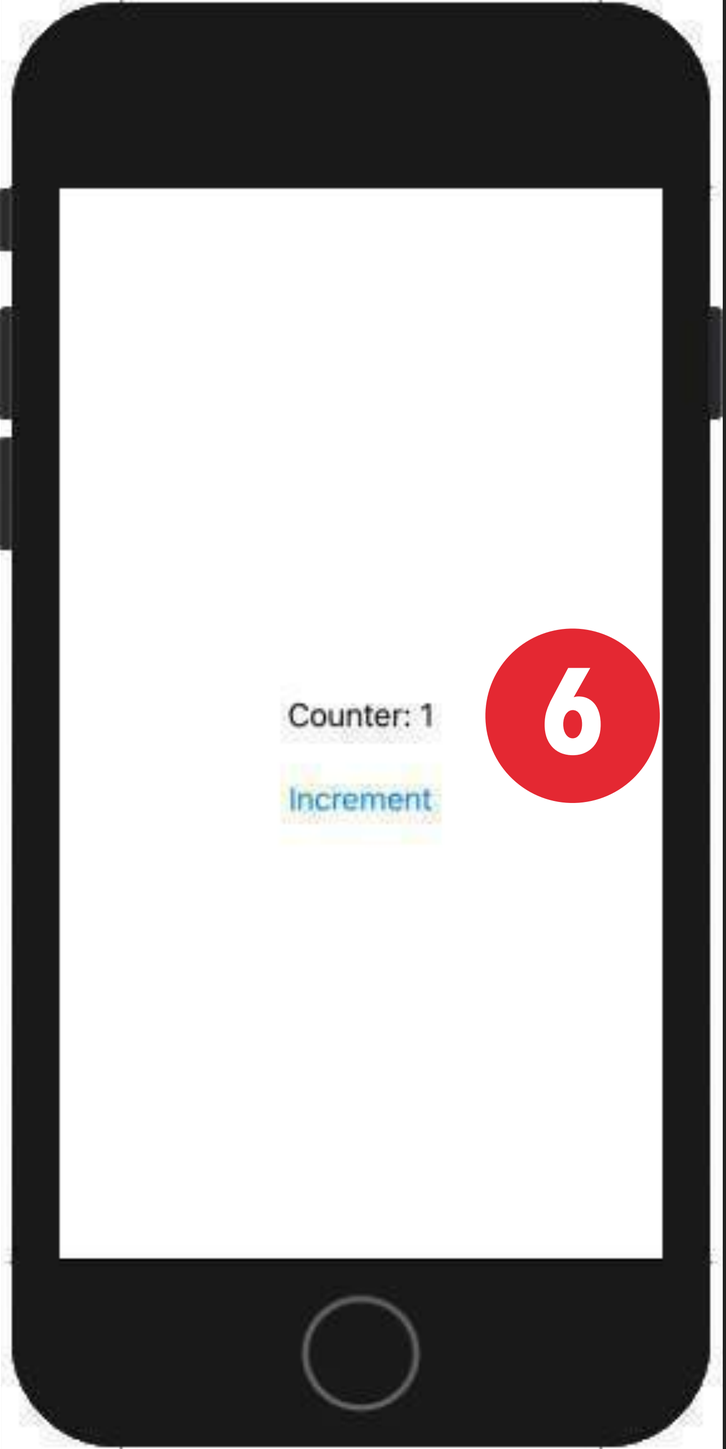



WHAT WAS THAT?

```
@State var count: Int = 0

var body: some
View {
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
        self.count += 1
      }, label: {
        Text("Increment")
      })
  })
}
```

CODE

```
@State var count: Int = 0

var body: some
View
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
        self.count += 1
      }, label: {
        Text("Increment")
      })
  })
}
```

STATUS & EVENTS

```
@State var count: Int = 0

var body: some
View
  VStack(alignment: .center,
    content: {
      Text("Counter: \(count)")
        .padding()
      Button(action: {
        self.count += 1
      }, label: {
        Text("Increment")
      })
  })
}
```

FRAMEWORK DRIVES UPDATES

CODE

STATUS & EVENTS

FRAMEWORK DRIVES UPDATES

DECLARATIVE

.NET MAUI (NOVEMBER 2021)

SWIFTUI

REACT

SWIFTUI REACT NATIVE

REACT NATIVE JETPACK COMPOSE (2021)

OPTION (2021)

RECOMMENDED (NOW)

DECLARATIVE

RECOMMENDED (NOW)

RECOMMENDED (2021)

STATE OF THE ART:
DECLARATIVE

CHANGE FRAMEWORKS

JOB SECURITY

WHY STATE OF THE ART?

ENTERPRISE APPLICATIONS FOR PC & MOBILE

WEB: ANGULAR, JSF, REACT, THYMELEAF, VAADIN, VUE.JS

CROSS-PLATFORM: FLUTTER, JAVAFX, REACT NATIVE, XAMARIN

STATE OF THE ART: DECLARATIVE FRONT-ENDS

SUM UP: FRONT-ENDS

FRONT-ENDS

~~HOW CAN WE BUILD FRONT-ENDS TODAY?~~

WHAT DO WE JAVA DEVELOPERS WISH FOR?

WEB: NEW WEB APPLICATION

MOBILE: NEW NATIVE IOS & ANDROID APPS

DESKTOP: GOT WEB APPLICATION – WHAT NOW?

WHAT DO WE JAVA DEVELOPERS WISH FOR?

JAVA

WEB

FAST

DECLARATIVE

MOBILE

NATIVE FUNCTIONALITY

SAFE

DESKTOP

1 CODEBASE

POPULAR

EXTENSIONS

FAST BUILD, DEPLOY & DEBUG

LEARN

BUILD, DEPLOY & DEBUG

DEVELOPER

"Y WINS"

WHY POPULAR?

MEASURE

6 DATA POINTS

IMPROVEMENTS?

"POPULAR" IS HARD

JAVA

WEB

FAST

DECLARATIVE

MOBILE

NATIVE FUNCTIONALITY

SAFE

DESKTOP

1 CODEBASE

POPULAR

EXTENSIONS

FAST BUILD, DEPLOY & DEBUG

THAT'S OUR WISH LIST!

~~HOW CAN WE BUILD FRONT-ENDS TODAY?~~

~~WHAT DO WE JAVA DEVELOPERS WISH FOR?~~

WEB: NEW WEB APPLICATION

MOBILE: NEW NATIVE IOS & ANDROID APPS

DESKTOP: GOT WEB APPLICATION – WHAT NOW?

ANGULAR

JSF

REACT

THYMELEAF

VAADIN

VUE.JS

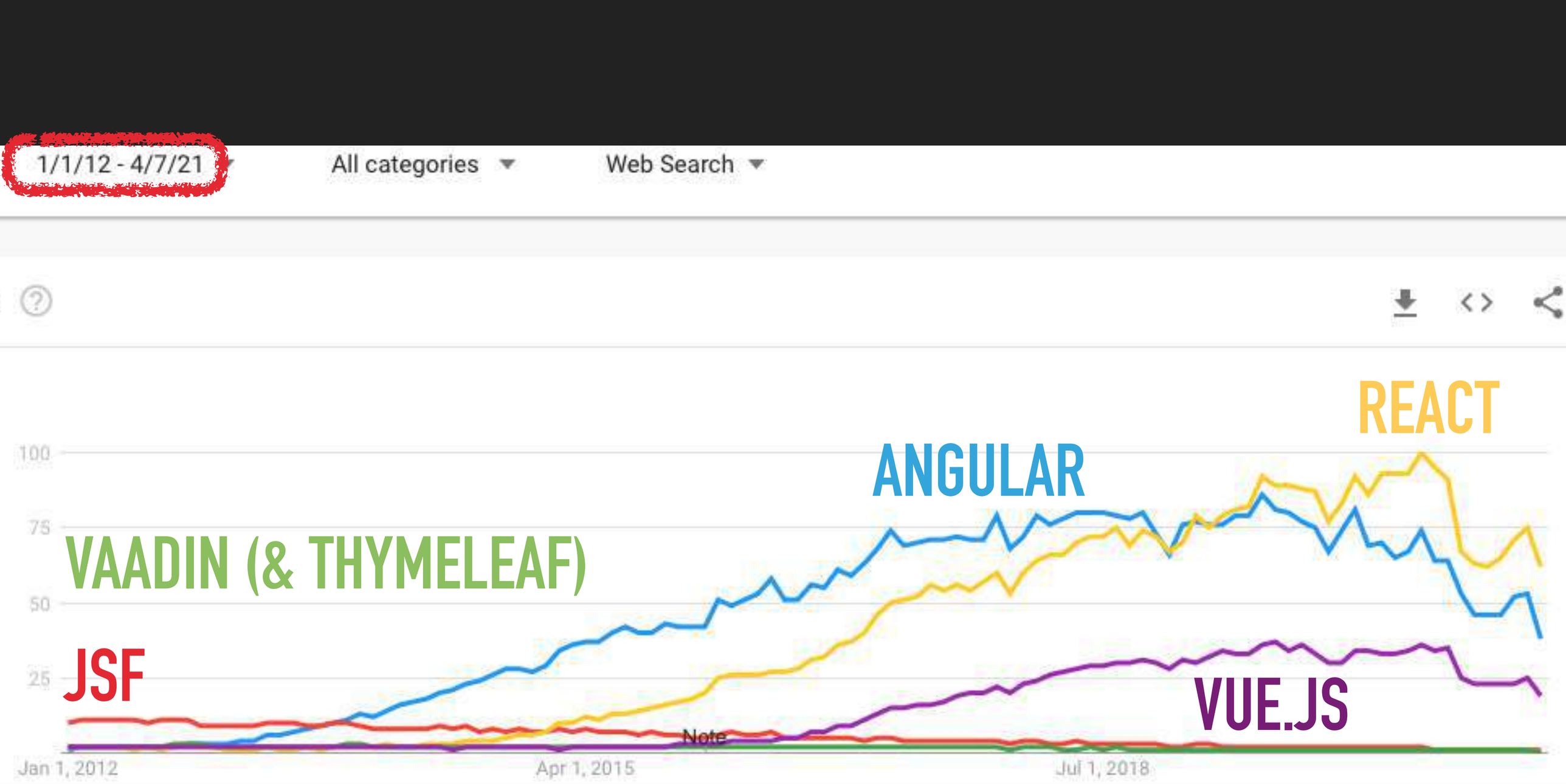
WEB

WHAT'S POPULAR?

TRENDS

NEW

GOOGLE SEARCH

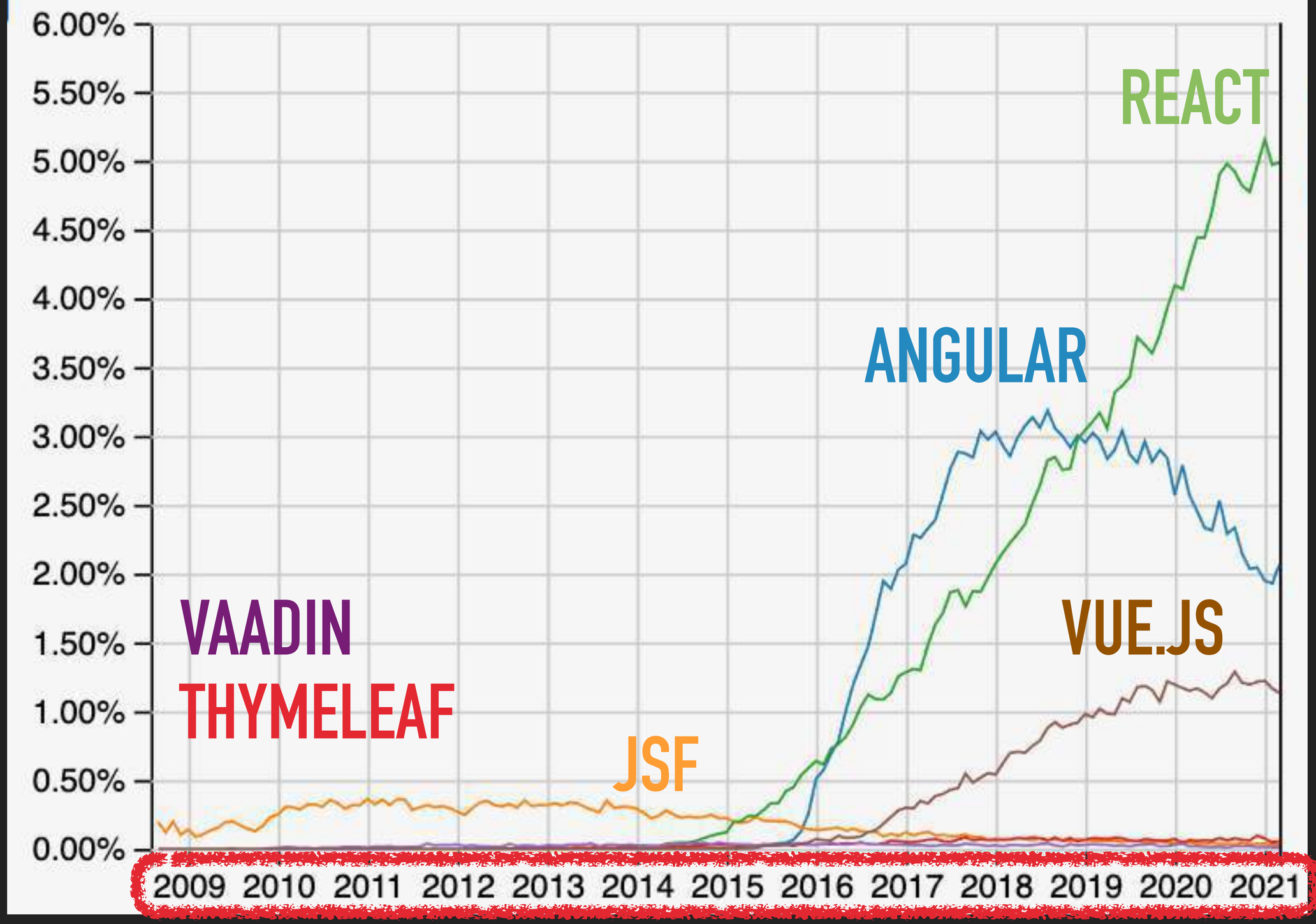

1/1/12 - 4/7/21
All categories
Web Search
REACT
ANGULAR
VAADIN (& THYMELEAF)
JSF
VUE.JS
100
75
50
25
Note
Jan 1, 2012
Apr 1, 2015
Jul 1, 2018

PERCENTAGE OF QUESTIONS

GOOD OR BAD?

GOOD!

STACK OVERFLOW

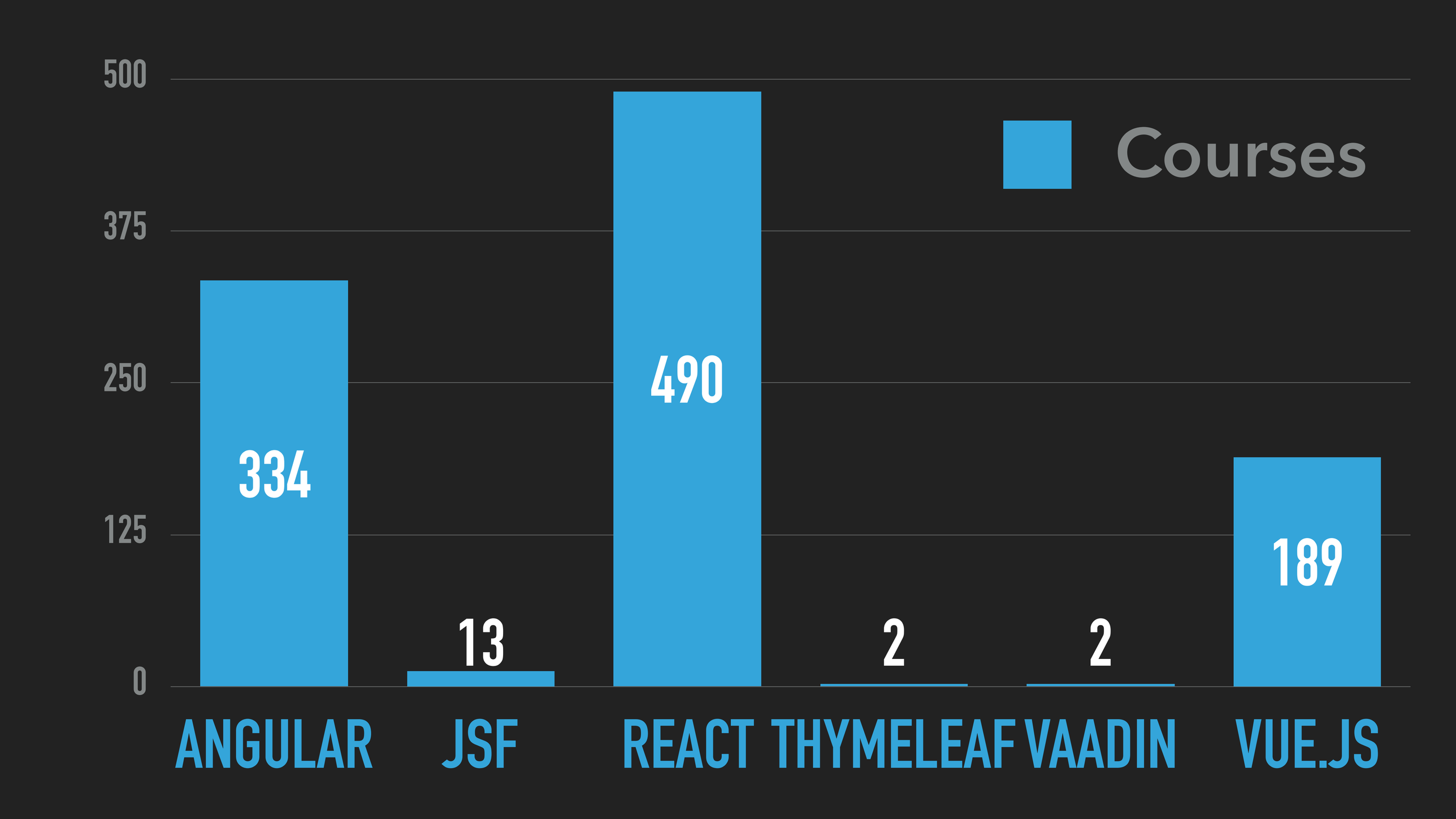

6.00%
5.50%
5.00%
4.50%
4.00%
3.50%
3.00%
2.50%
2.00%
1.50%
1.00%
0.50%
0.00%
REACT
ANGULAR
VUE.JS
VAADIN
THYMELEAF
JSF
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

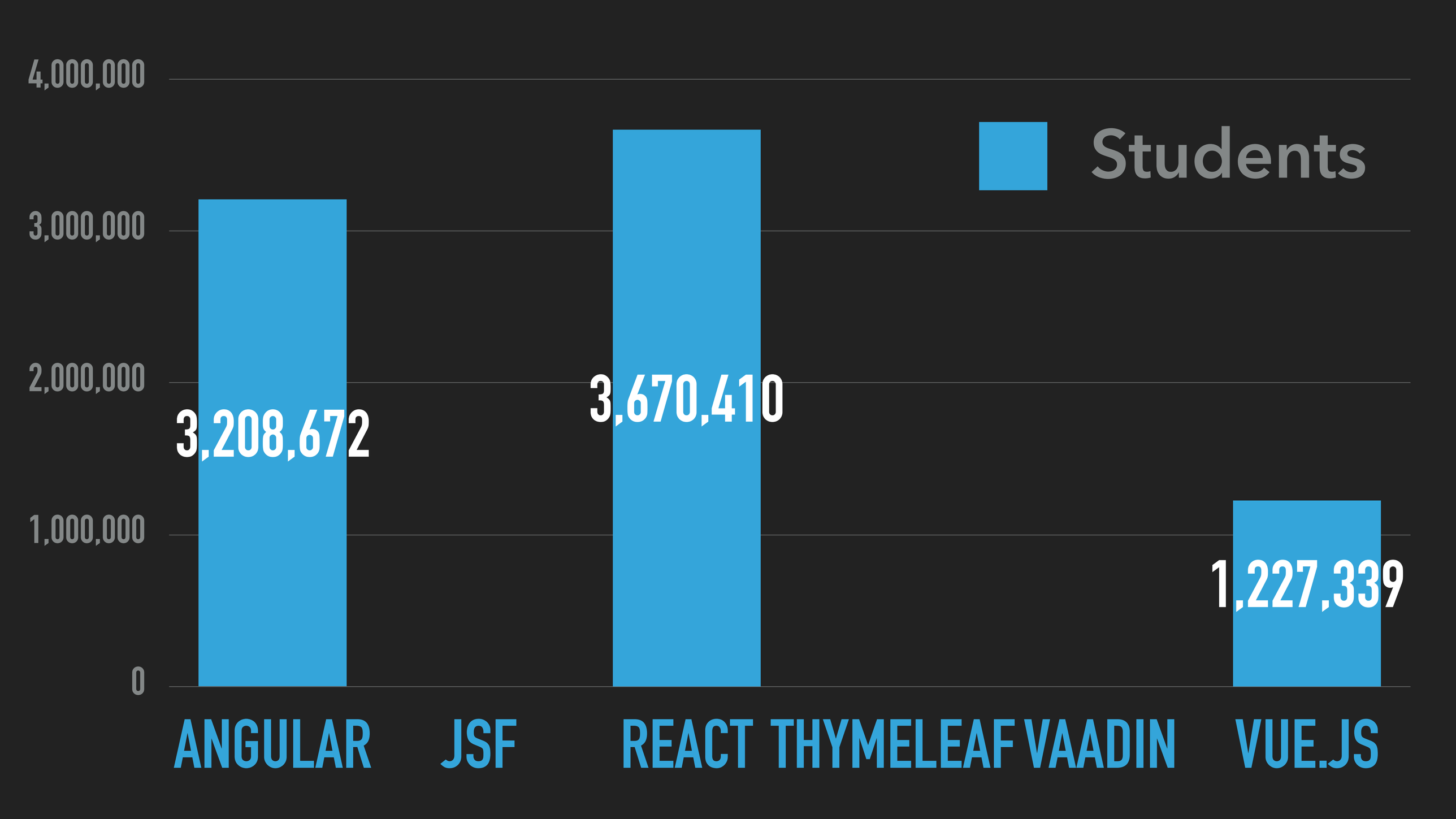
COURSES & STUDENTS

GOOD OR BAD?

GOOD!

UDEMY


500
375
250
125
0
Courses
334
13
490
2
2
189
ANGULAR
JSF
REACT
THYMELEAF
VAADIN
VUE.JS

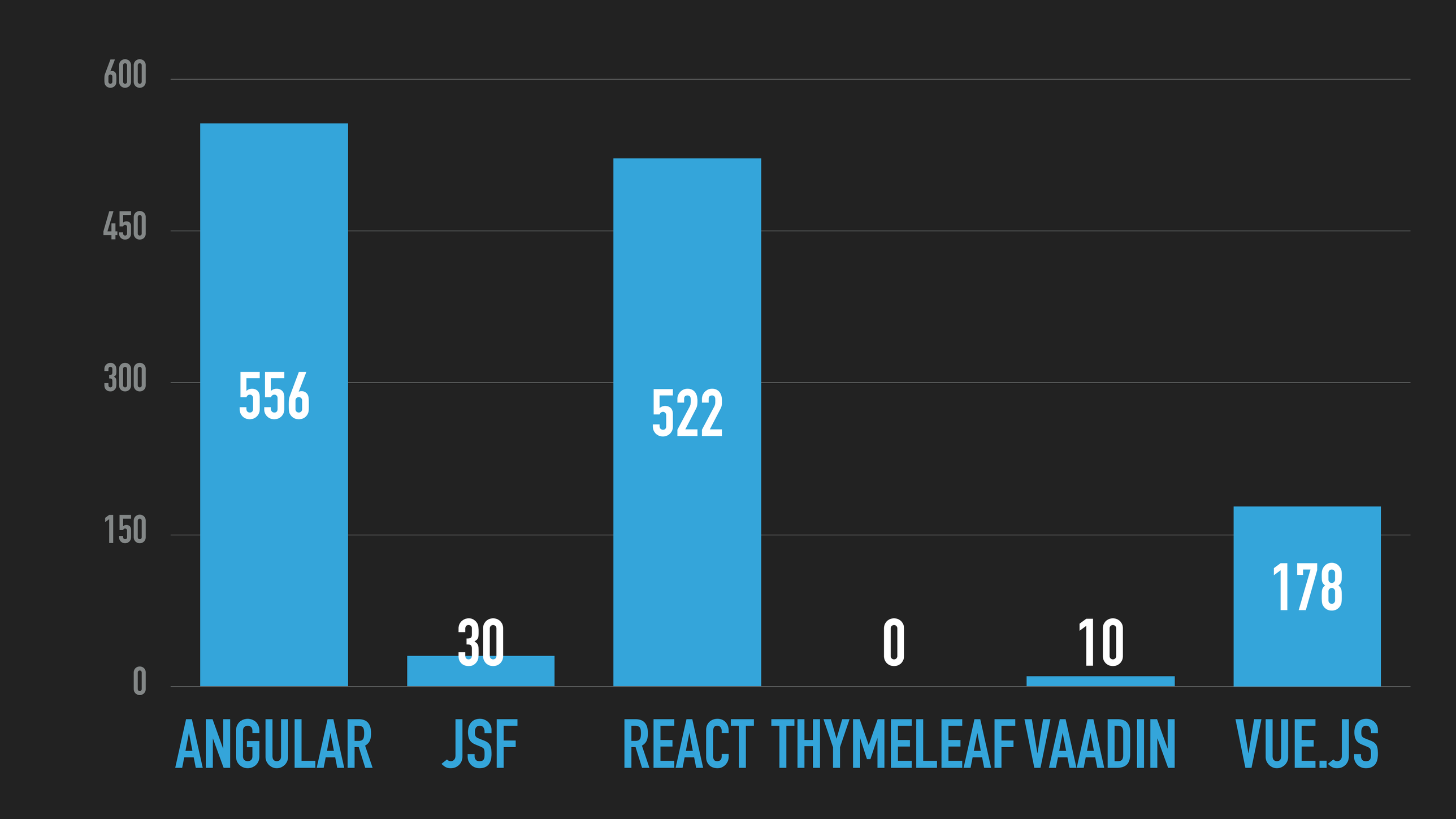

4,000,000
3,000,000
2,000,000
1,000,000
0
Students
3,208,672
3,670,410
1,227,339
ANGULAR
JSF
REACT
THYMELEAF
VAADIN
VUE.JS

USA

GOOD OR BAD?

GOOD!

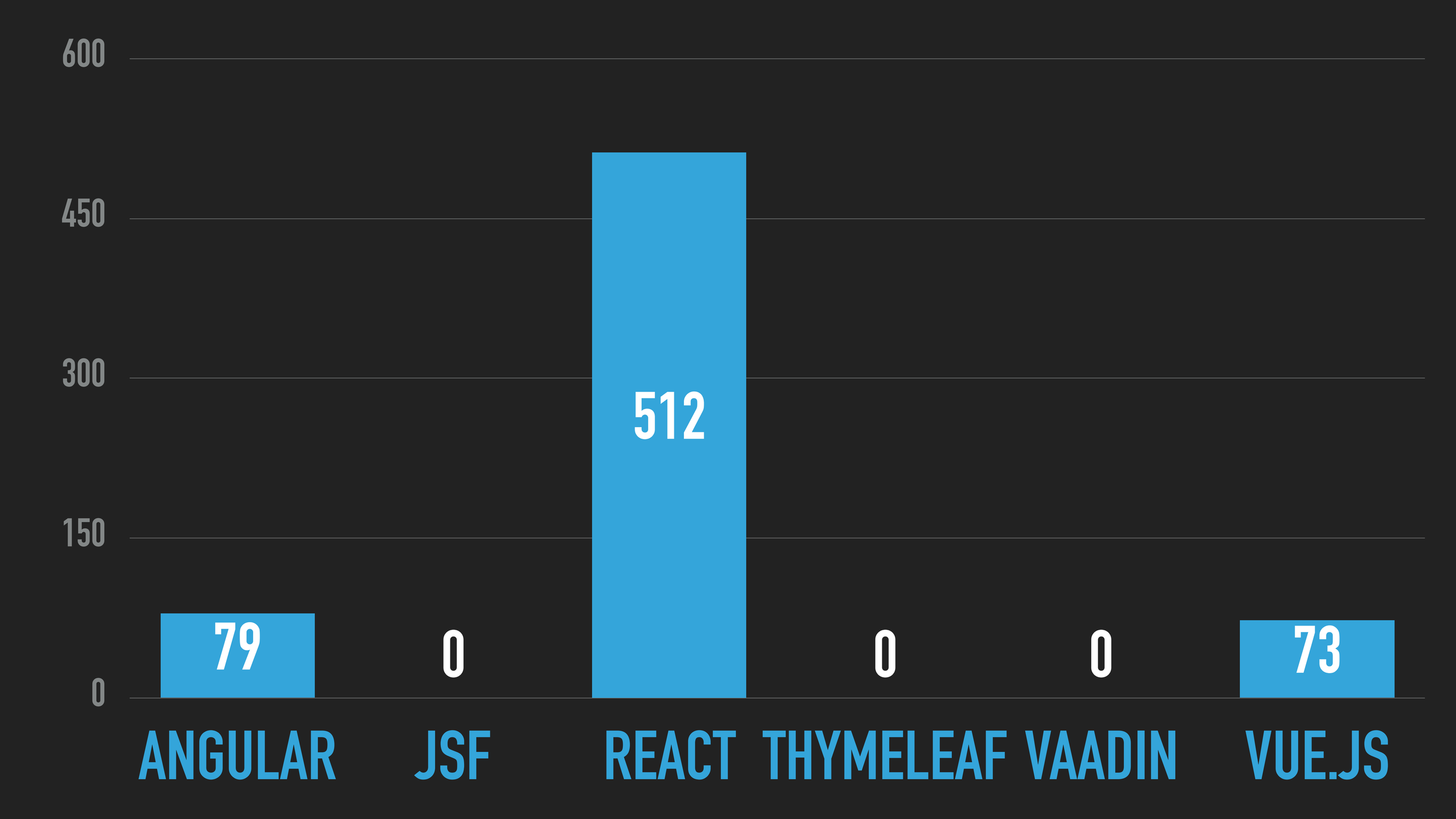
BOOKS AT AMAZON


600
450
300
150
0
556
30
522
0
10
178
ANGULAR
JSF
REACT
THYMELEAF
VAADIN
VUE.JS

TECHNOLOGY MENTIONED:
CUTTING EDGE

MULTIPLE TECHNOLOGIES PER JOB

JOBS STACK OVERFLOW

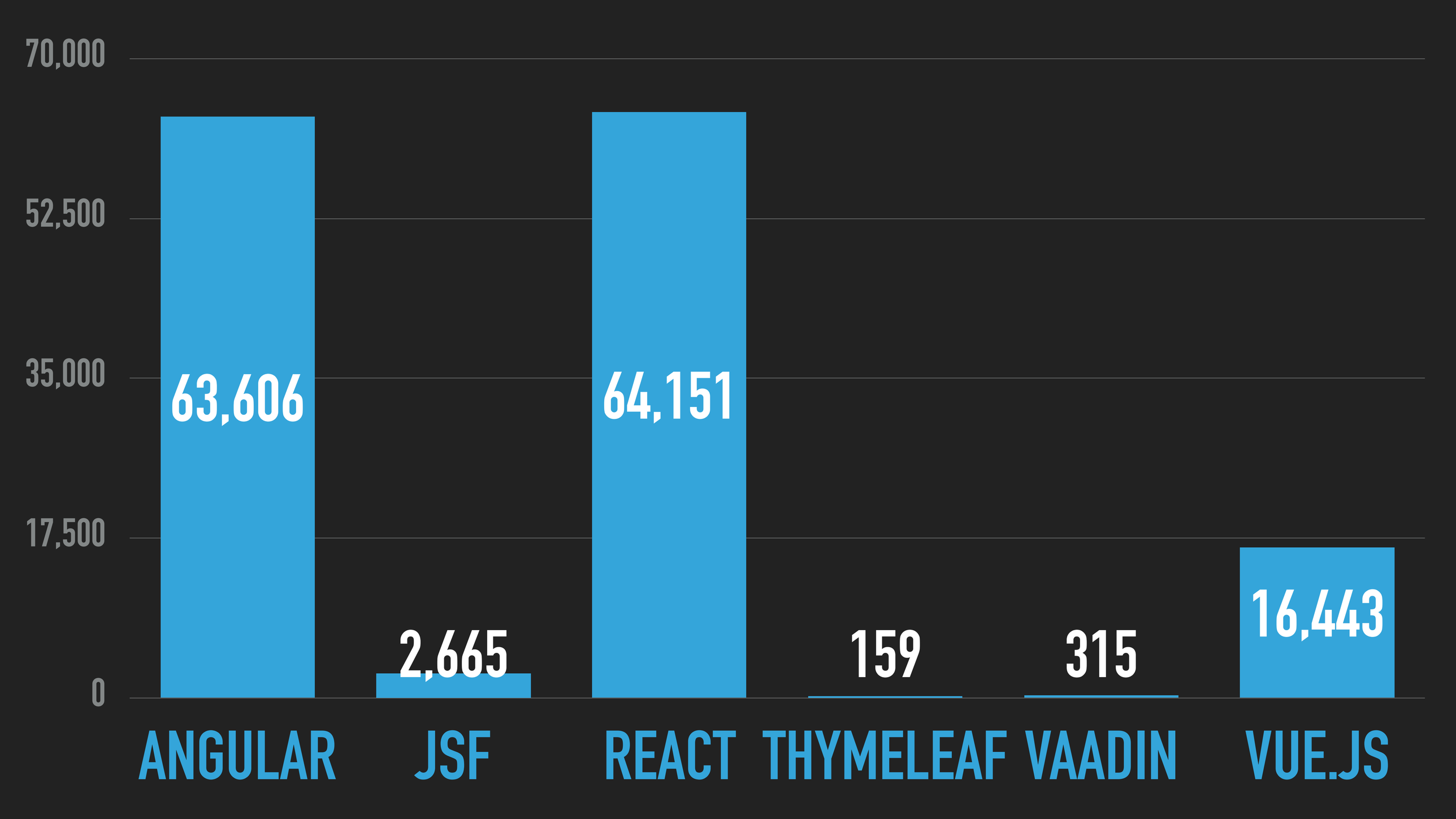

600
450
300
150
0
79
0
512
0
0
73
ANGULAR
JSF
REACT
THYMELEAF
VAADIN
VUE.JS

TECHNOLOGY MENTIONED: MAINSTREAM

MULTIPLE TECHNOLOGIES PER JOB

ARGENTINA, BRAZIL, CANADA, FRANCE, GERMANY, INDIA, ITALY, MEXICO, POLAND, RUSSIA, SOUTH AFRICA, SPAIN, UK, USA

JOBS INDEED


70,000
52,500
35,000
17,500
0
63,606
2,665
64,151
159
315
16,443
ANGULAR
JSF
REACT
THYMELEAF
VAADIN
VUE.JS

1. REACT

2. ANGULAR

3. VUE.JS

4–6. JSF, THYMELEAF, VAADIN

POPULAR: WEB

THYMELEAF, JSF: NOT DECLARATIVE

NOT POPULAR

THYMELEAF, VAADIN: NOT SAFE

JSF, THYMELEAF, VAADIN: OUT

ANGULAR

JSF

REACT

THYMELEAF

VAADIN

VUE.JS

WEB

ANGULAR

REACT

VUE.JS

WEB

WISH LIST: WEB

JAVA

WEB

FAST

DECLARATIVE

MOBILE

NATIVE FUNCTIONALITY

SAFE

DESKTOP

1 CODEBASE

POPULAR

EXTENSIONS

FAST BUILD, DEPLOY & DEBUG

JAVA ANG

WEB –

FAST REA

DECLARATIVE REA

SAFE REA

POPULAR REA

EXTENSIONS ???

???

FAST BUILD,
DEPLOY & DEBUG

1. REACT

2. ANGULAR

3. VUE.JS

OUT: JSF, THYMELEAF, VAADIN

WINNER: WEB

EXISTING: KEEP REACT, ANGULAR, VUE.JS;
JSF, THYMELEAF, VAADIN: MIGRATE?

NEW/MIGRATE: REACT, ANGULAR,VUE.JS

ADVICE: WEB

~~HOW CAN WE BUILD FRONT-ENDS TODAY?~~

~~WHAT DO WE JAVA DEVELOPERS WISH FOR?~~

~~WEB: NEW WEB APPLICATION~~

MOBILE: NEW NATIVE IOS & ANDROID APPS

DESKTOP: GOT WEB APPLICATION – WHAT NOW?

FLUTTER

JAVAFX

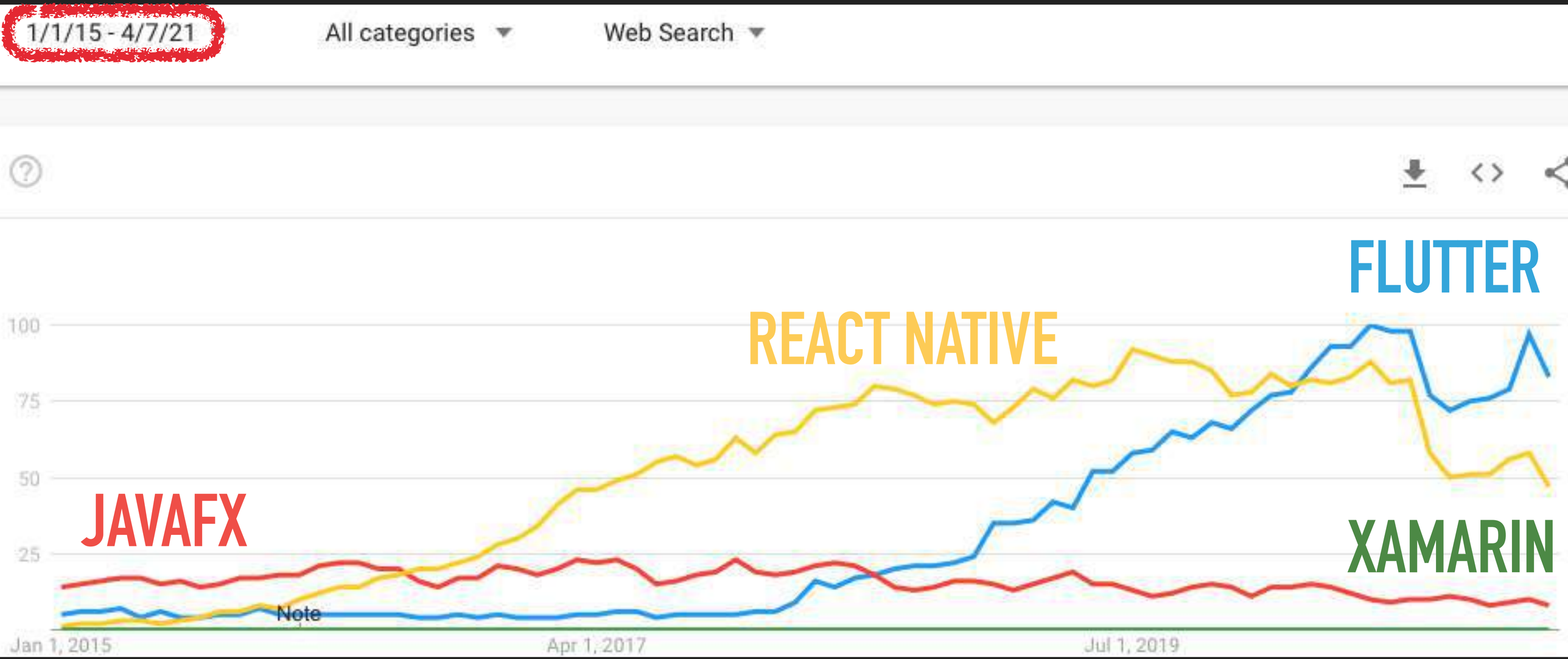
REACT NATIVE

XAMARIN

MOBILE

WHAT'S POPULAR?

GOOGLE


1/1/15 - 4/7/21
All categories
Web Search
FLUTTER
REACT NATIVE
JAVAFX
XAMARIN
100
75
50
25
Note
Jan 1, 2015
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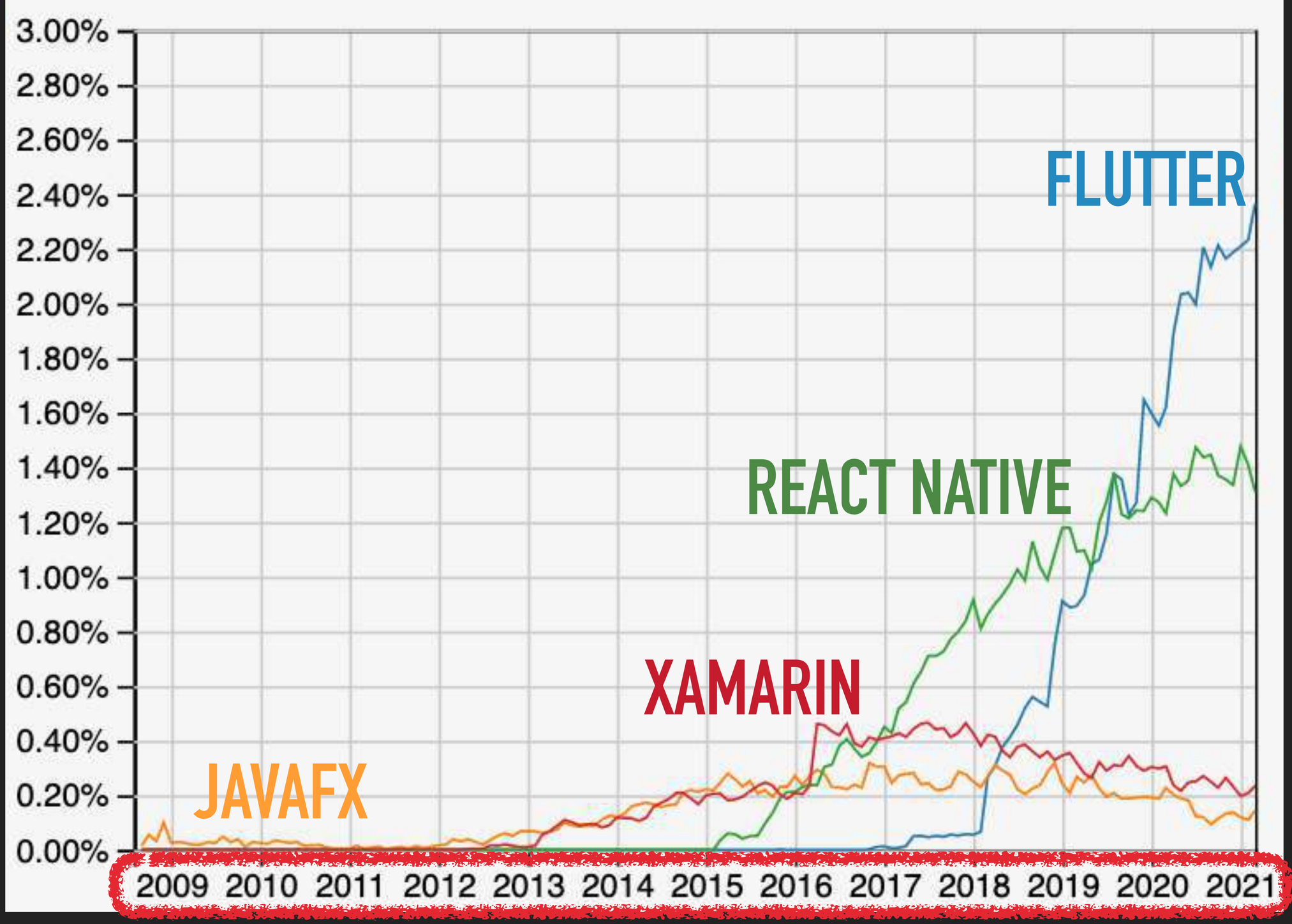
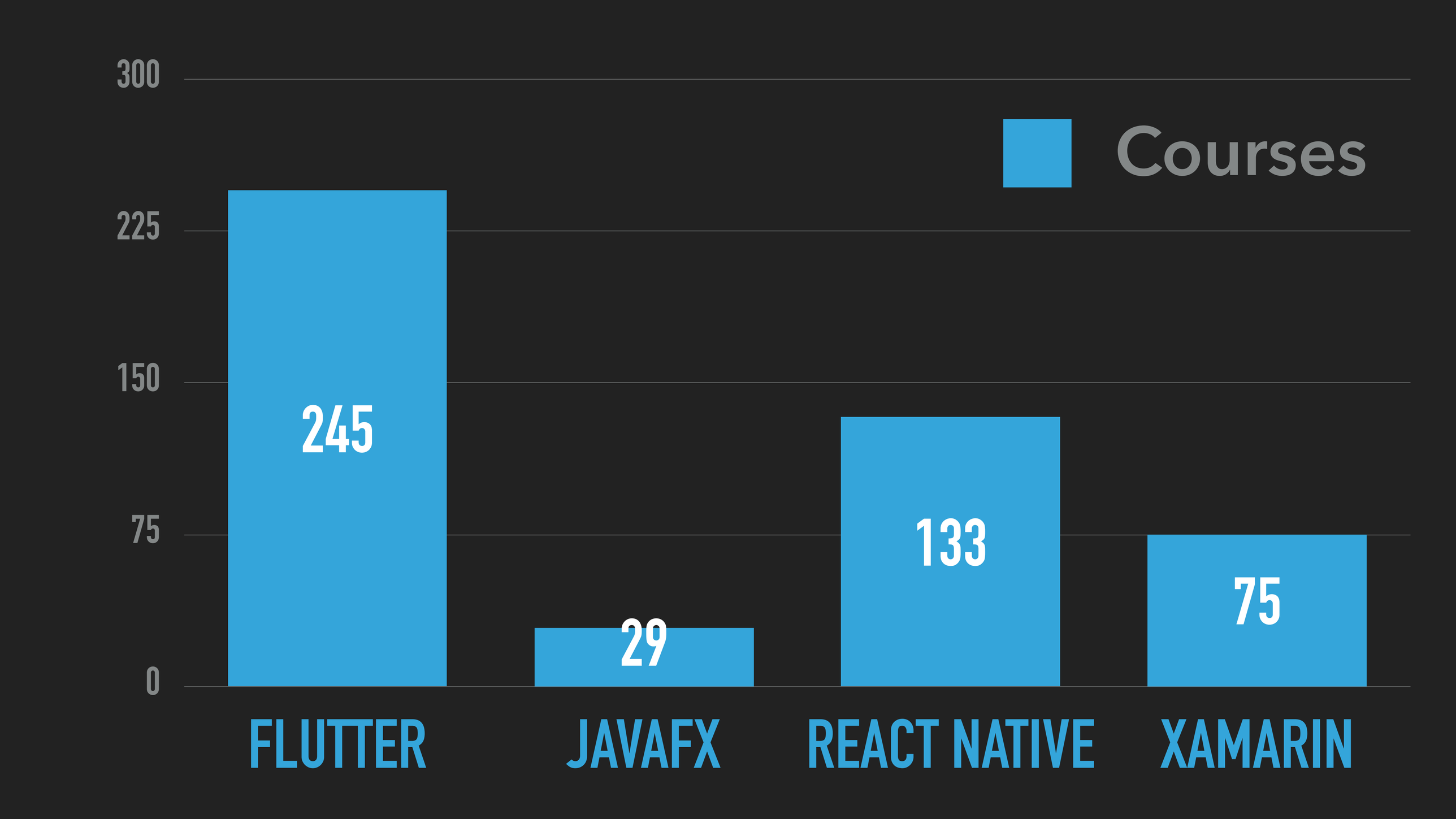
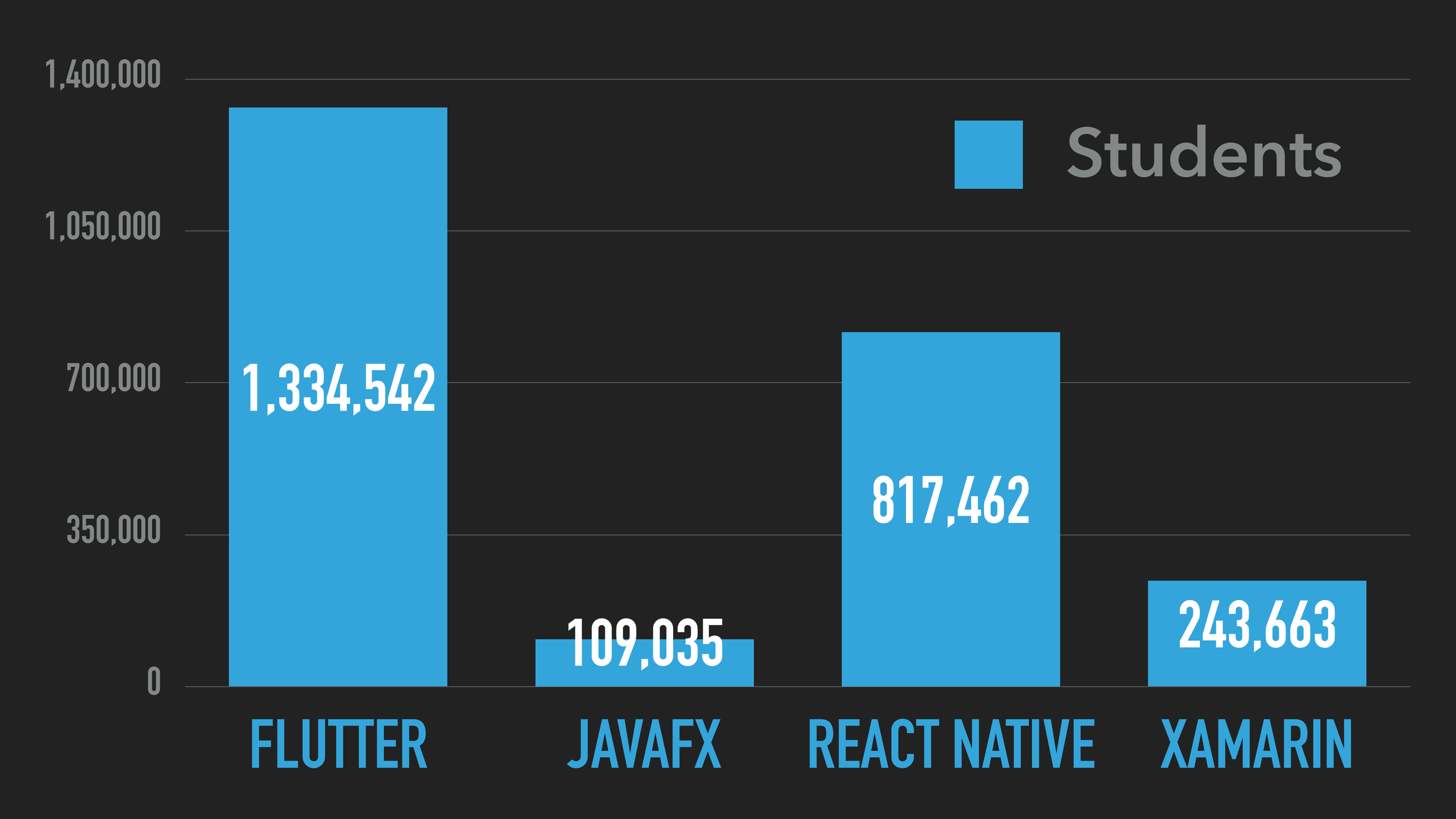
Jul 1, 2019

STACK OVERFLOW

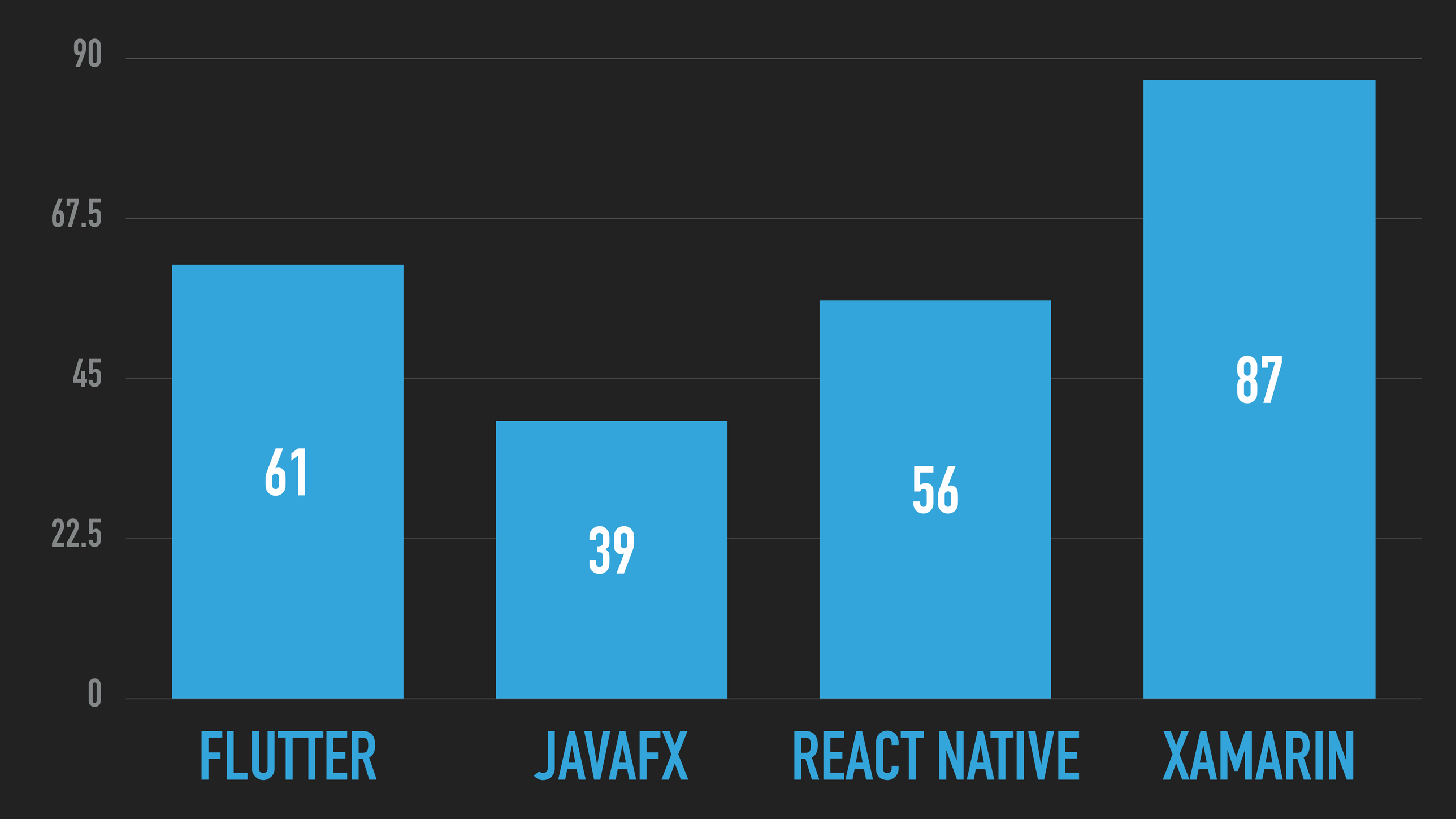

3.00%
2.80%
2.60%
2.40%
2.20%
2.00%
1.80%
1.60%
1.40%
1.20%
1.00%
0.80%
0.60%
0.40%
0.20%
0.00%
FLUTTER
REACT NATIVE
XAMARIN
JAVAFX
2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

UDEMY

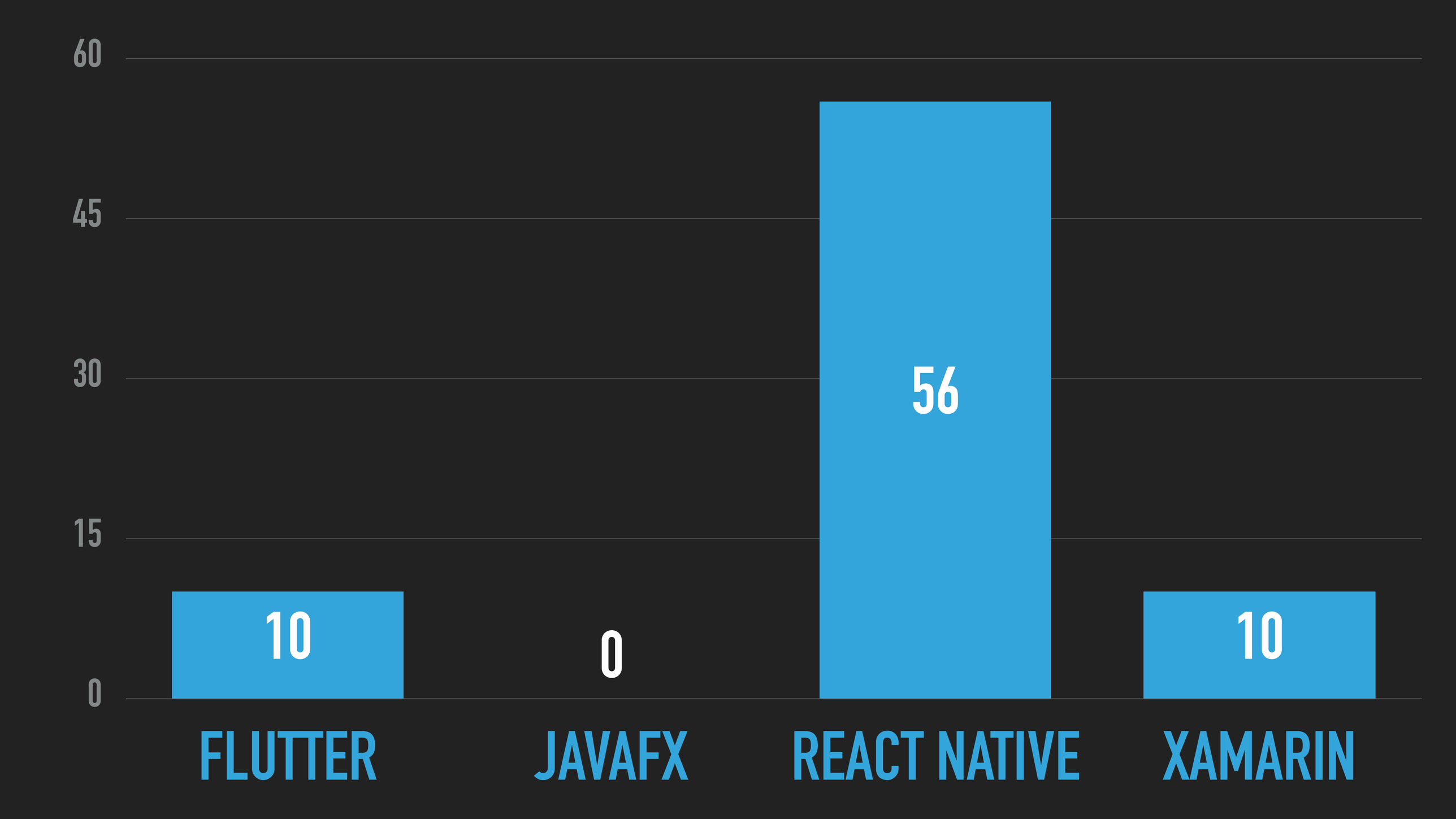

300
225
150
75
0
Courses
245
29
133
75
FLUTTER
JAVAFX
REACT NATIVE
XAMARIN


1,400,000
1,050,000
700,000
350,000
0
Students
1,334,542
109,035
817,462
243,663
FLUTTER
JAVAFX
REACT NATIVE
XAMARIN

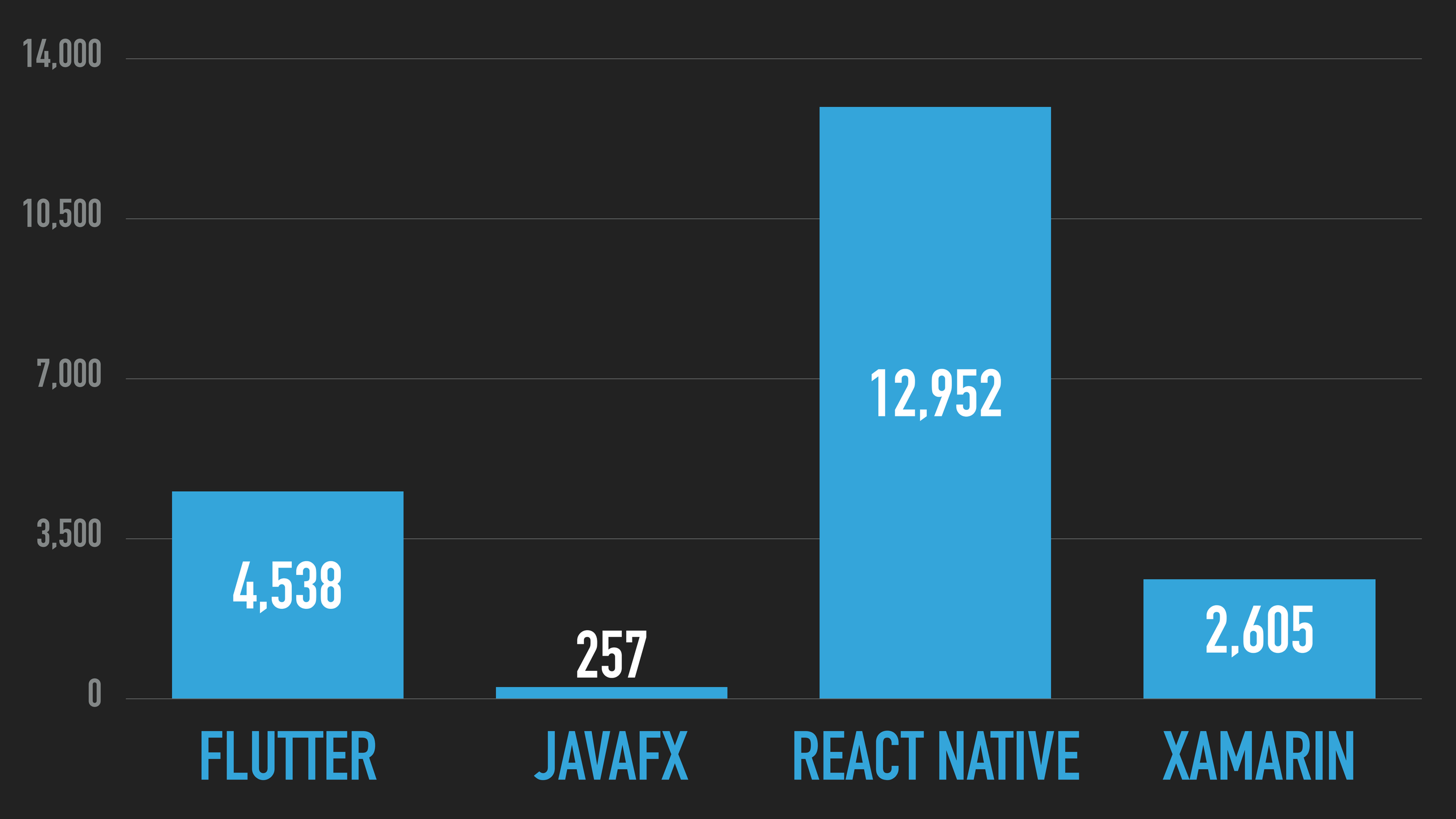
BOOKS AT AMAZON


90
67.5
45
22.5
0
61
39
56
87
FLUTTER
JAVAFX
REACT NATIVE
XAMARIN

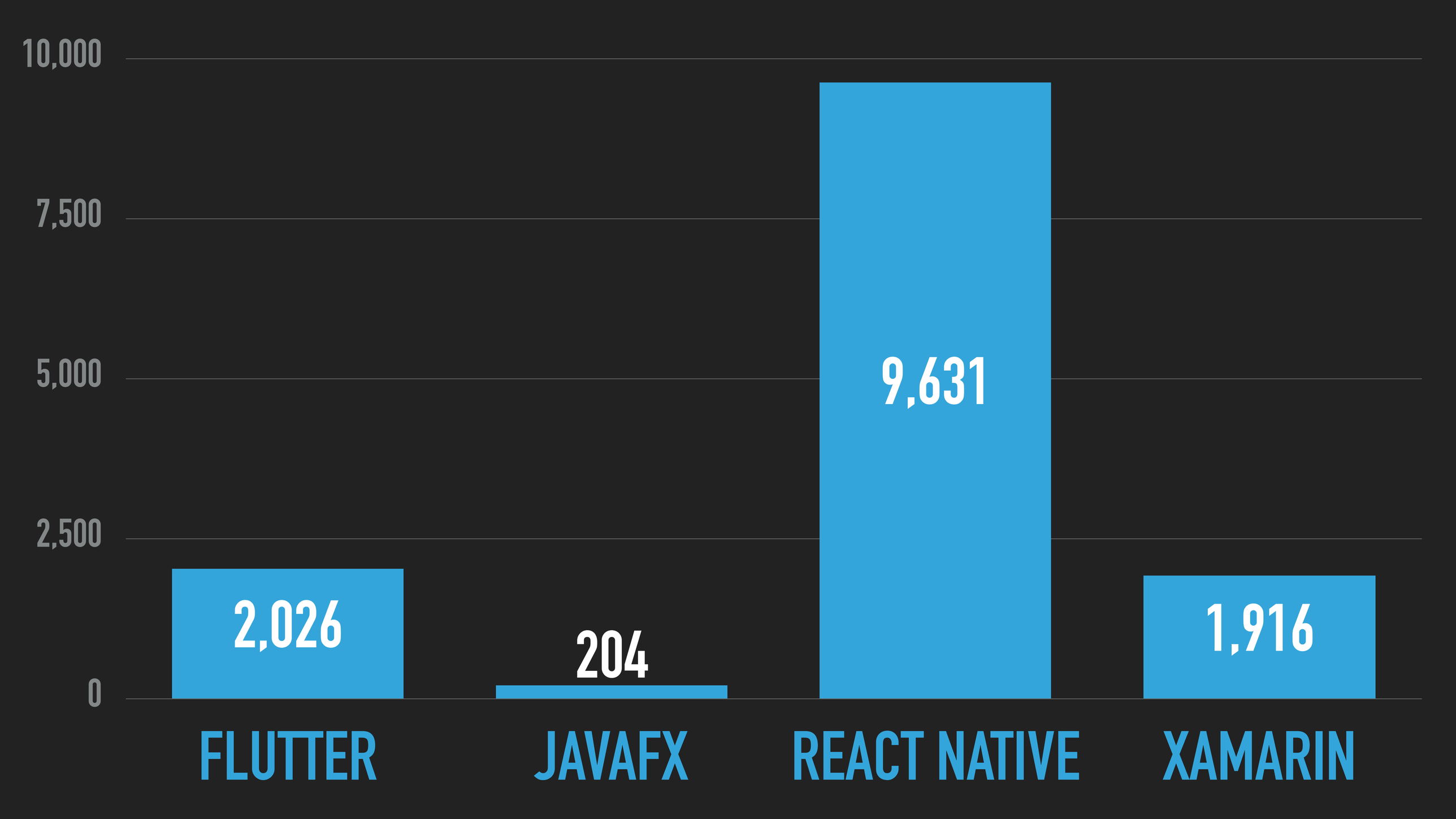
JOBS STACK OVERFLOW


60
45
30
15
0
10
0
56
10
FLUTTER
JAVAFX
REACT NATIVE
XAMARIN

JOBS INDEED


14,000
10,500
7,000
3,500
0
4,538
257
12,952
2,605
FLUTTER
JAVAFX
REACT NATIVE
XAMARIN

JOBS INDEED:
WITHOUT FRANCE & INDIA


10,000
7,500
5,000
2,500
0
2,026
204
9,631
1,916
FLUTTER
JAVAFX
REACT NATIVE
XAMARIN

"REACT WINS"

REACT => REACT NATIVE

REACT NATIVE BOOST?

1. REACT NATIVE

2. FLUTTER

3. XAMARIN

4. JAVAFX

POPULAR: MOBILE

NOT DECLARATIVE

NOT POPULAR

JAVAFX: NOT SAFE

XAMARIN & JAVAFX: OUT

FLUTTER

JAVAFX

REACT NATIVE

XAMARIN

MOBILE

FLUTTER

REACT NATIVE

MOBILE

MY FLUTTER EXPERIENCE ON MOBILE

WHAT'S FLUTTER?

"GOOGLE'S UI TOOLKIT FOR BUILDING BEAUTIFUL, NATIVELY COMPILED APPLICATIONS FOR MOBILE, WEB, AND DESKTOP FROM A SINGLE CODEBASE."

"GOOGLE'S UI TOOLKIT FOR BUILDING BEAUTIFUL, NATIVELY COMPILED APPLICATIONS FOR MOBILE, WEB, AND DESKTOP FROM A SINGLE CODEBASE."

- JAVASCRIPT
- SLOWER RENDERING
+ NATIVE UI ELEMENTS
- WINDOWS & MACOS
- REACT + REACT NATIVE

REACT NATIVE

+ DART
+ FASTER RENDERING
- EMULATED UI ELEMENTS
+ WINDOWS, MAC, LINUX
+ 1 CODEBASE

FLUTTER

CAN'T WE USE JAVA INSTEAD OF DART?

```
class MyClass extends AnotherClass {
  String myString;
  int myInt;
  List<String> myList = new List<String>();

  String sayHello(String name) {
    var feedback = "Hello, " + name;
    return feedback;
  }
}
```

THIS IS DART!

```
class MyClass extends AnotherClass {
  String myString;
  int myInt;
  List<String> myList = new LinkedList<>();

  String sayHello(String name) {
    var feedback = "Hello, " + name;
    return feedback;
  }
}
```

THIS IS JAVA

BROWSER

"SIMPLIFIED JAVA FOR UI"

VM & NATIVELY COMPILED

WHAT'S DART?

SLOW MOBILE BUILDS

HOT RELOAD

HOT RESTART

FASTER

FAST BUILD & DEPLOY!

HOT RELOAD IS FUN & KEEPS THE FLOW!

BARELY USED THEM

TUNING APP

FLUTTER WEB APP

DEV TOOLS

Dart DevTools
Flutter Inspector
Timeline
Memory
Performance
Debugger
Network
Logging
App Size
Select Widget Mode
Refresh Tree
Slow Animations
Debug Paint
Paint Baselines
Details Tree
Layout Explorer
Expand all
Collapse to selected
[root]
MyApp
FutureBuilder<FirebaseApp>
StoreProvider<AppState>
PlatformApp
StoreBuilder<AppState>
LandingPage
LandingPageSignedIn
CupertinoTabScaffold
CupertinoTabView
CupertinoTabView
MyDancePage
StoreBuilder<AppState>
EditProfilePage
CleanScaffold
PlatformScaffold
SafeArea
SingleChildScrollView
Column
SizedBox
Container
Column
CleanListMultipleChoice
CSLink
Icon
CleanFormTextField-[Le
FocusScope
PlatformTextField
hitTestBehavior: opaque
renderObject: RenderPointerListener#3cc0c relayoutBoundary=up27
Semantics
container: false
properties: SemanticsProperties
label: null
value: null
hint: null
hintOverrides: null
renderObject: RenderSemanticsAnnotations#d7577 relayoutBoundary=up28
IgnorePointer-[GlobalKey#8e354]
ignoring: false
ignoringSemantics: false
renderObject: RenderIgnorePointer#d12fe relayoutBoundary=up29
CompositedTransformTarget
renderObject: RenderLeaderLayer#81d7c relayoutBoundary=up30
Semantics
container: false
properties: SemanticsProperties
label: null
value: null
hint: null
hintOverrides: null
renderObject: RenderSemanticsAnnotations#74d68 relayoutBoundary
_Editable-[GlobalKey#5eca8]

15.000

OPEN-SOURCE

PORTAL

FORK

PLUGINS

STAND-ALONE

SCREENS

HOW DOES FLUTTER RUN?

PLUGINS

NATIVE SCREENS

CHANNELS & C API

NATIVE INTEGRATION

DART = "SIMPLIFIED JAVA FOR UI"

FAST CODE, BUILD & DEPLOY

PLUGINS SAVE TIME

SIMPLE NATIVE INTEGRATION

SUM UP: GOOD FLUTTER

MY FLUTTER ISSUES

WILL GOOGLE KILL FLUTTER?

Killed by Google

Search

All (225)

Join a bunch of others and follow @killedbygoogle on Twitter.

Google Chrome Apps

June 2022

"Off with their heads!" in over 1 year, Google Chrome Apps were hosted or packaged web applications that ran on the Google Chrome browser. It will be over 11 years old.

Android Things

January 2022

Turning to ashes in 10 months, Android Things was an Android-based embedded operating system (originally named Brillo) aimed to run on Internet of Things (IoT) devices. It will be over 6 years old.

AngularJS

December 2021

Biting the big one in 10 months, AngularJS was a JavaScript open-source front-end web framework based on MVC pattern using a dependency injection technique. It will be about 11 years old.

Google Hangouts

June 2021

Another one bites the dust in 4 months, Google Hangouts was a communication platform which included messages, video chat, and VOIP features. Execution scheduled "first half 2021". It will be over 8 years old.

Expeditions

June 2021

To be exterminated in 4 months, Expeditions is a program for providing virtual reality experiences to school classrooms through Google Cardboard viewers, allowing educators to take their students on virtual field trips. It will be almost 6 years old.

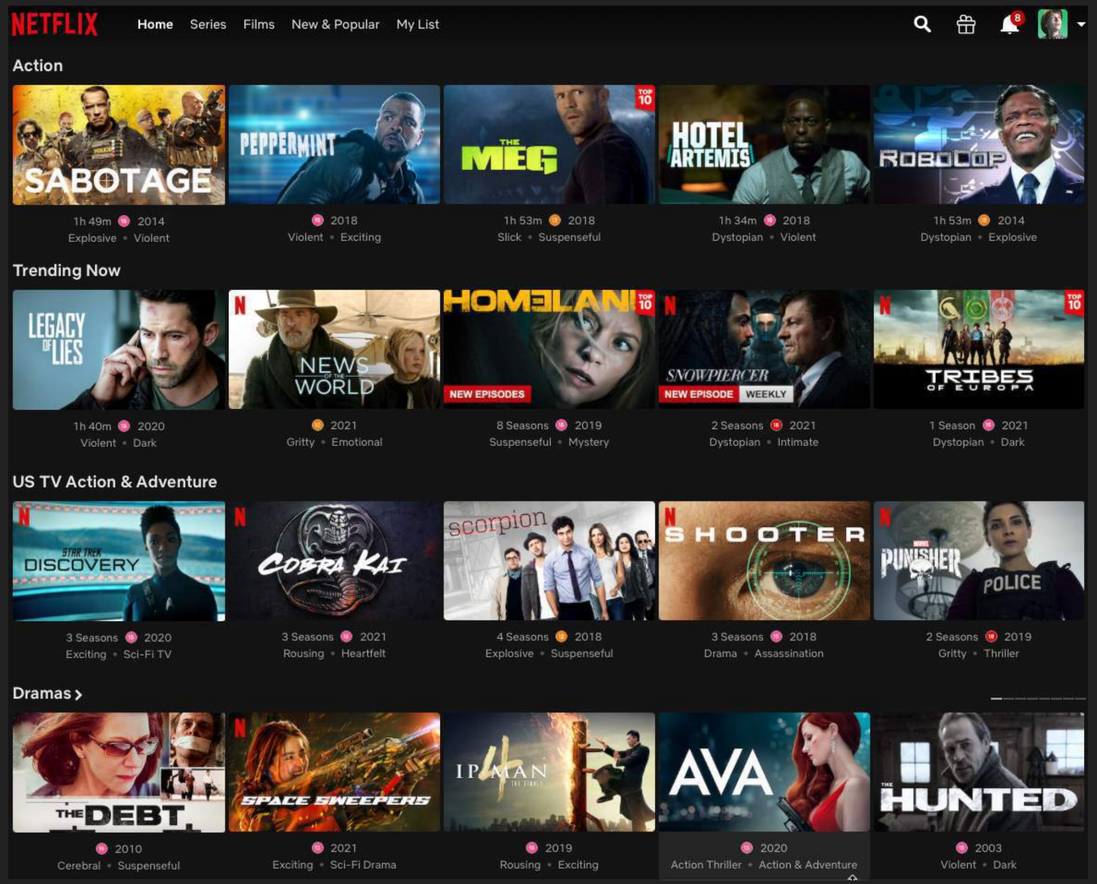
IN-HOUSE COMPETITION

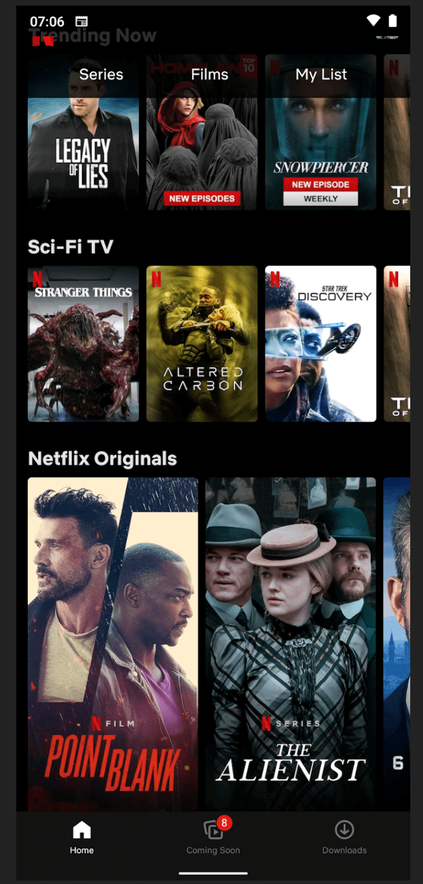
FUCHSIA

POPULAR

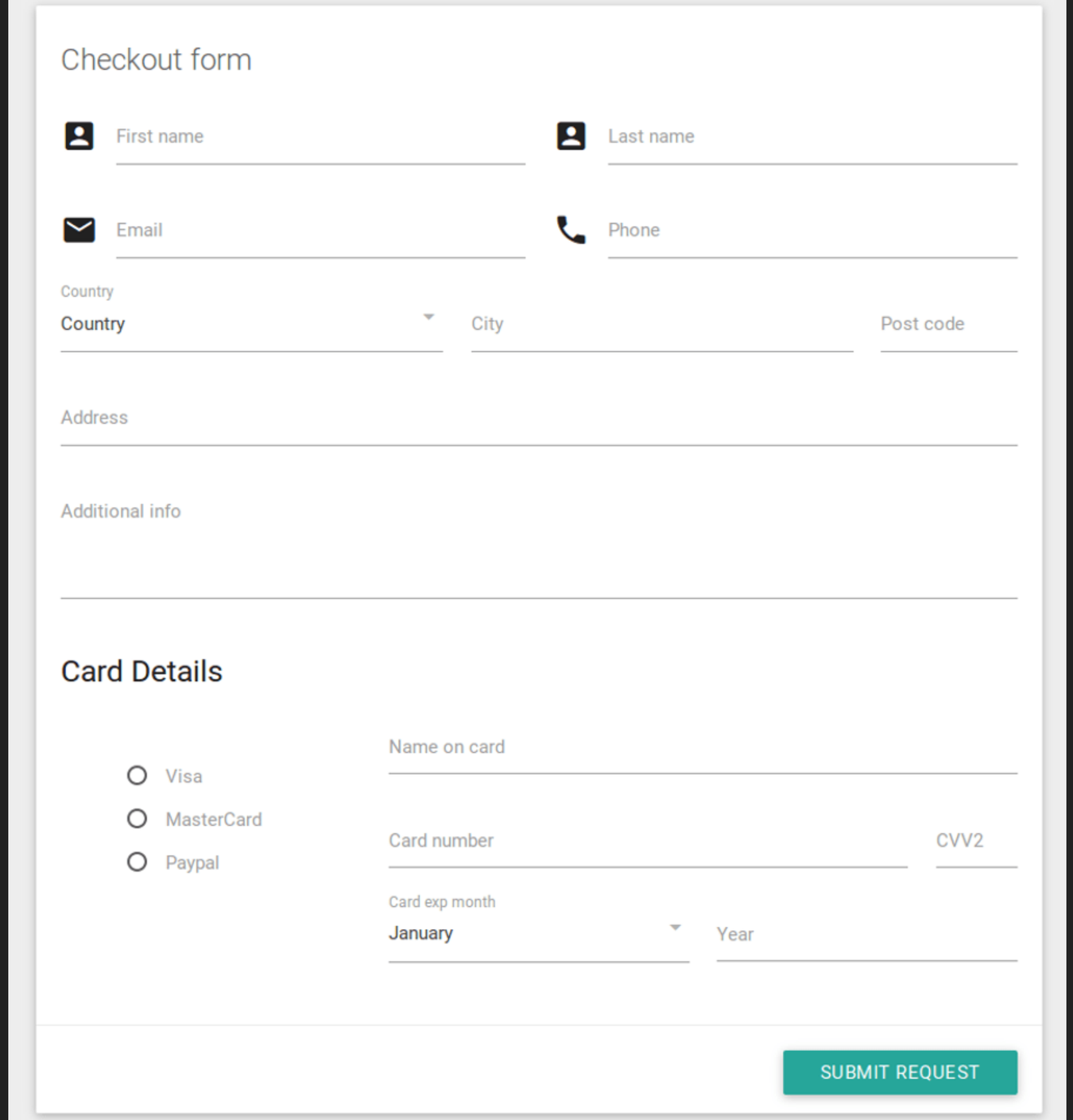
WE DON'T KNOW!

WHICH DESIGNS CAN WE BUILD WITH FLUTTER?

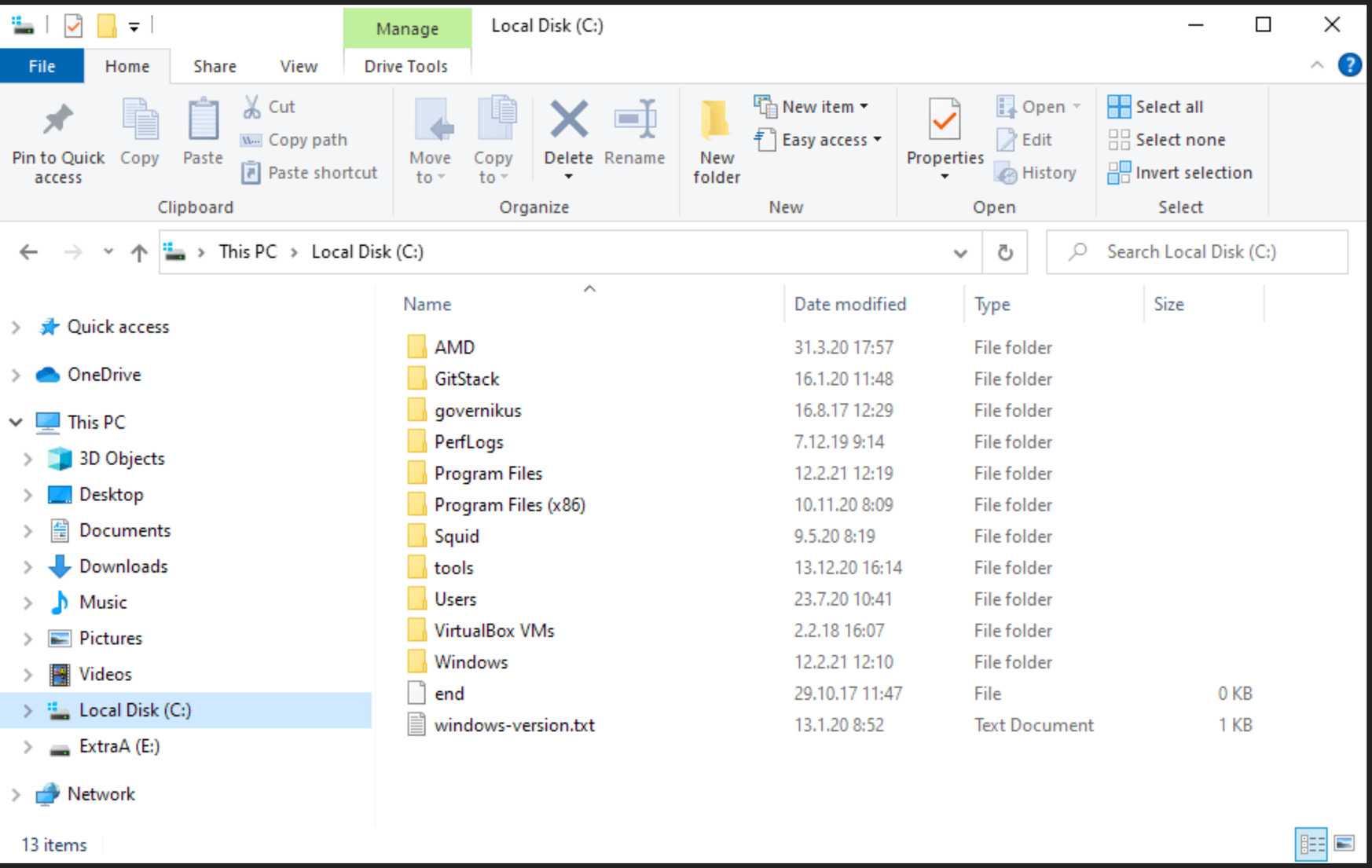

NETFLIX
Home
Series
Films
New & Popular
My List
Action
SABOTAGE
1h 49m 2014
Explosive • Violent
PEPPERMINT
2018
Violent • Exciting
THE MEG
1h 53m 2018
Slick • Suspenseful
HOTEL ARTEMIS
1h 34m 2018
Dystopian • Violent
ROBOCOP
1h 53m 2014
Dystopian • Explosive
Trending Now
LEGACY OF LIES
1h 40m 2020
Violent • Dark
NEWS OF THE WORLD
2021
Gritty • Emotional
HOMELAND
NEW EPISODES
8 Seasons 2019
Suspenseful • Mystery
SNOWPIERCER
NEW EPISODE WEEKLY
2 Seasons 2021
Dystopian • Intimate
TRIBES OF EUROPA
1 Season 2021
Dystopian • Dark
US TV Action & Adventure
STAR TREK DISCOVERY
3 Seasons 2020
Exciting • Sci-Fi TV
COBRA KAI
3 Seasons 2021
Rousing • Heartfelt
scorpion
4 Seasons 2018
Explosive • Suspenseful
SHOOTER
3 Seasons 2018
Drama • Assassination
PUNISHER POLICE
2 Seasons 2019
Gritty • Thriller
Dramas
THE DEBT
2010
Cerebral • Suspenseful
SPACE SWEEPERS
2021
Exciting • Sci-Fi Drama
IP MAN 4
2019
Rousing • Exciting
AVA
2020
Action Thriller • Action & Adventure
THE HUNTED
2003
Violent • Dark


07:06
Series
Films
My List
LEGACY OF LIES
NEW EPISODES
SNOWPIERCER
NEW EPISODE
WEEKLY
Sci-Fi TV
STRANGER THINGS
ALTERED CARBON
STAR TREK DISCOVERY
Netflix Originals
FILM
POINT BLANK
SERIES
THE ALIENIST
Home
Coming Soon
Downloads

1. OWN DESIGN



2. MATERIAL DESIGN



3. NATIVE DESIGN

MOBILE, WEB & DESKTOP WITH 1 CODEBASE AND FLUTTER?

NO

PREVIEW

NO NATIVE DESIGN

"CUSTOMIZE MATERIAL"

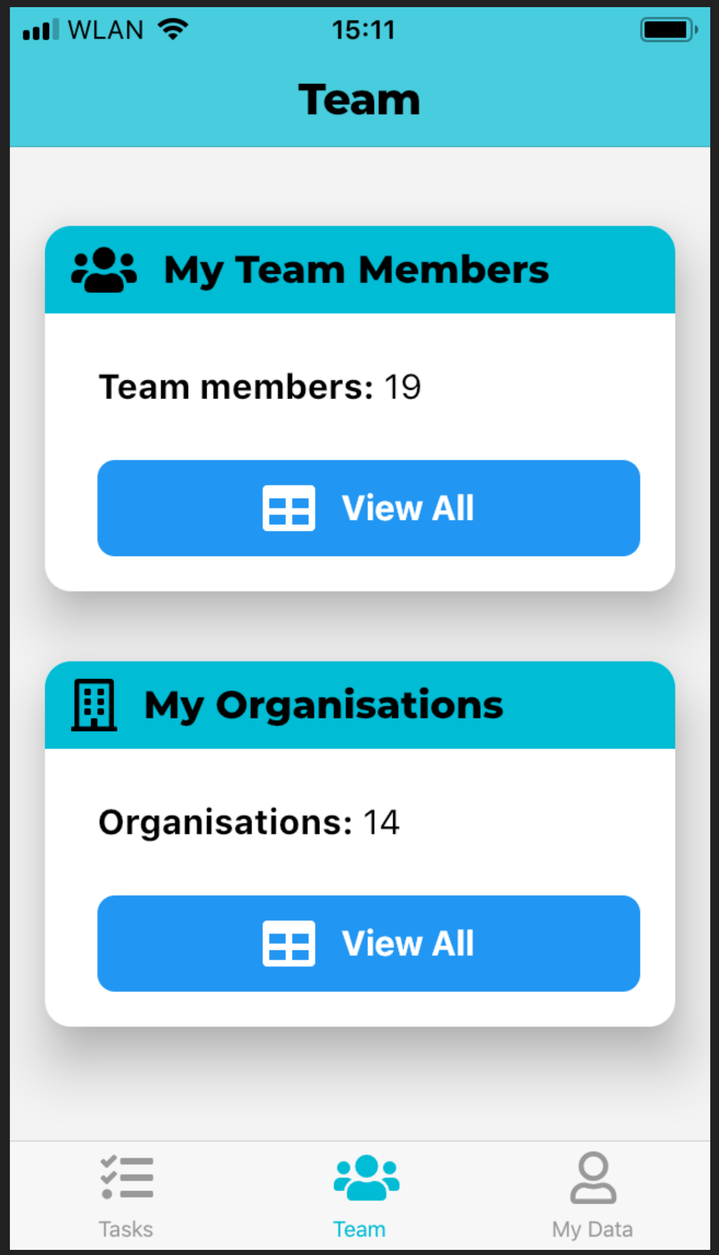
FLUTTER: DESKTOP

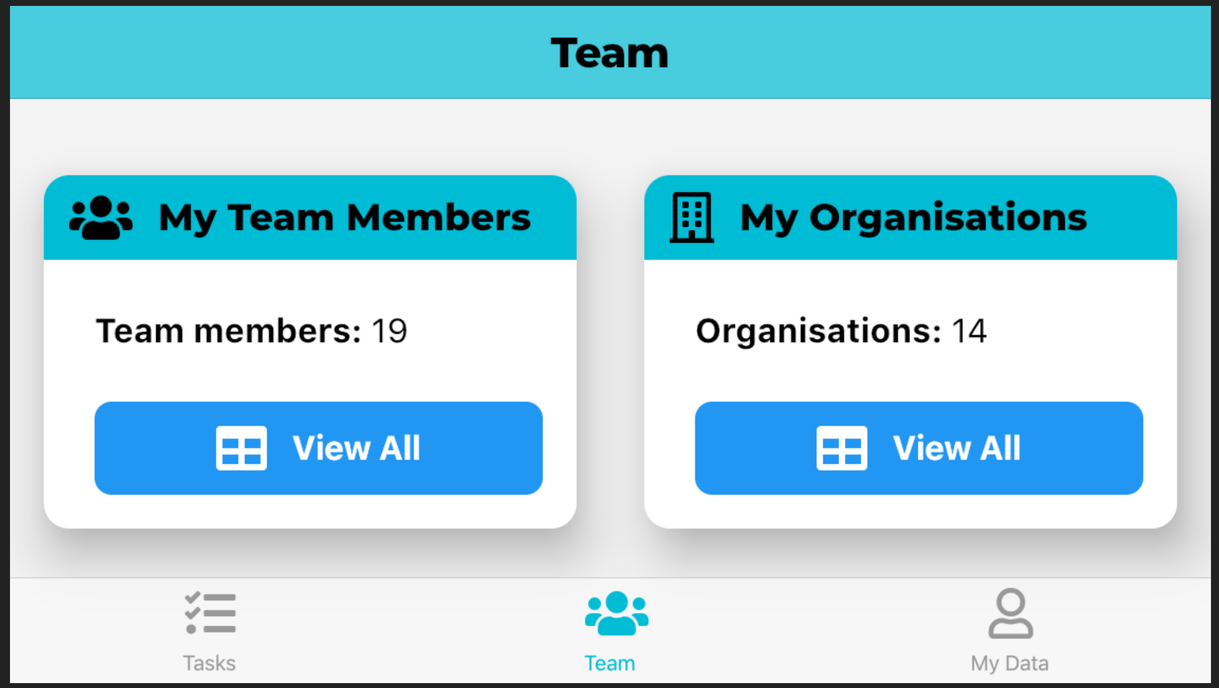
1.0

"CUSTOMIZE MATERIAL"

NPM

FLUTTER: WEB


WLAN
15:11
Team
My Team Members
Team members: 19
View All
My Organisations
Organisations: 14
View All
Tasks
Team
My Data


Team
My Team Members
Team members: 19
View All
My Organisations
Organisations: 14
View All
Tasks
Team
My Data

ROTATE OR BIG

FLUTTER?

"BOOTSTRAP GRID"

RESPONSIVE DESIGN?

COMPONENTS MISSING

TIME-CONSUMING

OWN COMPONENTS

NATIVE DESIGN FOR MOBIL

ISSUES & TROUBLE

NEW PLATFORMS

NULL SAFETY

EXTERNAL DEVELOPERS

FLUTTER OVERWHELMED?

WILL GOOGLE KILL FLUTTER?

FLUTTER OVERWHELMED?

NOT ALL WITH 1 CODEBASE

RESPONSIVE DESIGN?

MOBILE NATIVE DESIGN TIME-CONSUMING

SUM UP: BAD FLUTTER

WISH LIST: MOBILE

JAVA FLU

DECLARATIVE -

SAFE REA

POPULAR REA

WEB REA

MOBILE -

DESKTOP -

EXTENSIONS ???

FAST FLU

NATIVE FUNCTIONALITY FLU

1 CODEBASE FLU

FAST BUILD, DEPLOY & DEBUG ???

1. FLUTTER

2. REACT NATIVE

OUT: JAVAFX, XAMARIN

WINNER: MOBIL

REACT NATIVE

"REACT WINS"

JOBS

YOUR WINNER?

EXISTING: KEEP FLUTTER, REACT NATIVE;
JAVAFX: MIGRATION?; XAMARIN: WAIT FOR MAUI

NEW/MIGRATION: REACT: REACT NATIVE, FLUTTER;
ELSE: FLUTTER, REACT NATIVE; XAMARIN: WAIT FOR MAUI

ADVICE: MOBILE

MOBILE

~~HOW~~ CAN WE BUILD FRONT-ENDS TODAY?

~~WHAT~~ DO WE ~~JAVA~~ DEVELOPERS WISH FOR?

~~WEB:~~ NEW WEB APPLICATION

~~MOBILE:~~ NEW NATIVE iOS & ANDROID APPS

DESKTOP: GOT WEB APPLICATION – WHAT NOW?

NO GOOD OPTION

CHANGE

EXPENSIVE

WEB GOOD ENOUGH

DESKTOP

WEB APPLICATION: KEEP

OWN/MATERIAL DESIGN + FLUTTER:
FLUTTER FOR DESKTOP?

ADVICE: DESKTOP

DESKTOP

HOW CAN WE BUILD FRONT-ENDS TODAY?

WHAT DO WE JAVA DEVELOPERS WISH FOR?

WEB: NEW WEB APPLICATION

MOBILE: NEW NATIVE iOS & ANDROID APPS

DESKTOP: GOT WEB APPLICATION — WHAT NOW?

WEB: YES – ANGULAR, LEARN REACT

MOBILE: YES – FLUTTER

DESKTOP: YES – WEB APPLICATION

FOLLOW MY OWN ADVICE?

SUMMARY

EXISTING: KEEP REACT, ANGULAR, VUE.JS;
JSF, THYMELEAF, VAADIN: MIGRATE?

NEW/MIGRATE: REACT, ANGULAR,VUE.JS

ADVICE: WEB

EXISTING: KEEP FLUTTER, REACT NATIVE;
JAVAFX: MIGRATION?; XAMARIN: WAIT FOR MAUI

NEW/UMSTIEG: REACT: REACT NATIVE, FLUTTER;
ELSE: FLUTTER, REACT NATIVE; XAMARIN: WAIT FOR MAUI

ADVICE: MOBILE

WEB APPLICATION: KEEP

OWN/MATERIAL DESIGN + FLUTTER:
FLUTTER FOR DESKTOP?

ADVICE: DESKTOP

The End

PSSST...

OCTOBER 2021

CONTRACTOR/FIXED-TERM EMPLOYEE

MILTON KEYNES, LONDON, OR REMOTE

. . . LOOKING FOR PROJECT!

SLIDES & VIDEOS

EXTRA INFORMATION

FEEDBACK

GET STARTED!

NEWSLETTER

HTTPS://BPF.LI/VIA