



NativeScript

Open-source framework for building truly native mobile apps with Angular, TypeScript or JavaScript.

TJ VanToll 🚀
@tjvantoll





SUPER BOWL LI

New England Patriots



34

14-2

Final/OT

FOX	1	2	3	4	OT	T
NE	0	3	6	19	6	34
ATL	0	21	7	0	0	28

28



Atlanta Falcons

11-5





Detroit Lions Become NFL's First 0-16 Team

Published December 28, 2008 · Associated Press



NativeScript is the best tool for
cross-platform native app
development 🎉



Agenda

- Slides!
 - ~20 minutes
- Coding!
 - ~30 minutes
- Questions!
 - Whatever time we have left



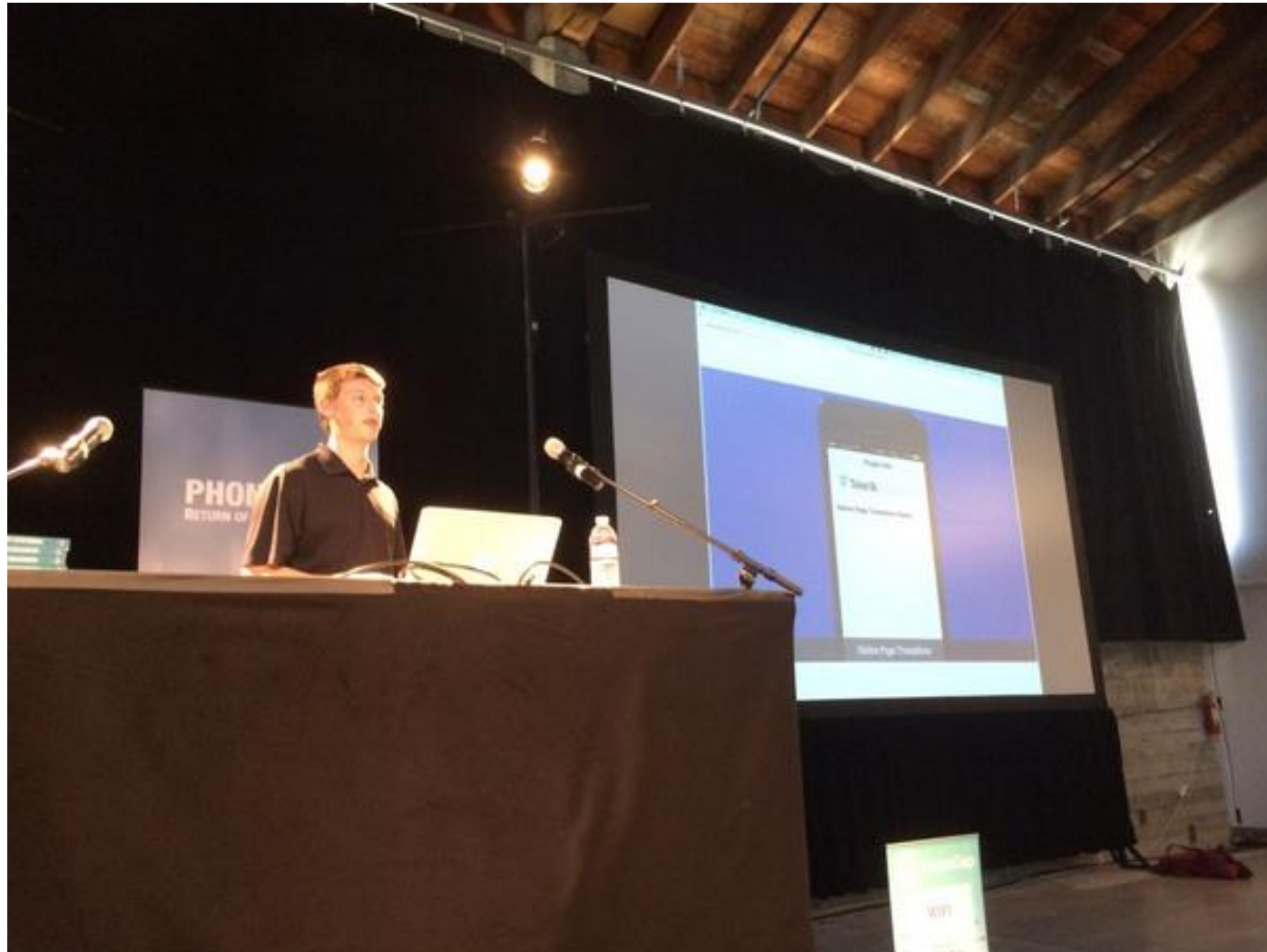




Telerik AppBuilder



Me at PhoneGap Day 2014



MOBILE

The State of Hybrid Mobile Development

Opinion by  TJ VanToll |  May 5, 2014 |  10 Comments

<http://developer.telerik.com/featured/the-state-of-hybrid-mobile-development/>



“We are facing a slow touch reaction while scrolling”

“I've noticed very slow/jaggy/flickering scrolling on Android. The framerate is low, and the scroll effect is far from smooth.”

“if there is solution to get native speed then i will be using app builder again otherwise will move to native”

“appbuilder only produces a bastard child of an app. slow, and tacky . Its just not a good idea at all. Having said that it is actually what i am using for my next app. This is because every other alternative is just as bad.”



Verified Plugins Marketplace | X TJ

plugins.telerik.com/cordova

Telerik by Progress

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Cordova Plugins

Curated list of Cordova/PhoneGap plugins that have been thoroughly tested, documented, and extended to empower cross-platform hybrid mobile developers.

Search plugins Search

All Plugins

77 Plugins SORT BY: A-Z | Recent | Downloads

3D Touch iOS
by Eddy Verbruggen 936 Downloads

FILTER PLUGINS

All Plugins

BY PLATFORM

Android
iOS



Native Page Transitions x TJ

plugins.telerik.com/cordova/plugin/native-page-transitions




Telerik by Progress

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Cordova Plugins

Native Page Transitions

Version: [0.6.5](#), May 24, 2016

[Load in Telerik Platform](#)

Load this plugin into a new [Telerik Platform](#) project to see how it works.

OR

[Download Plugin](#)



Read instructions for:


- [Install plugin using Cordova CLI](#)
- [Install plugin using AppBuilder CLI](#)
- [Install plugin using AppBuilder IDE](#)

DOWNLOADS

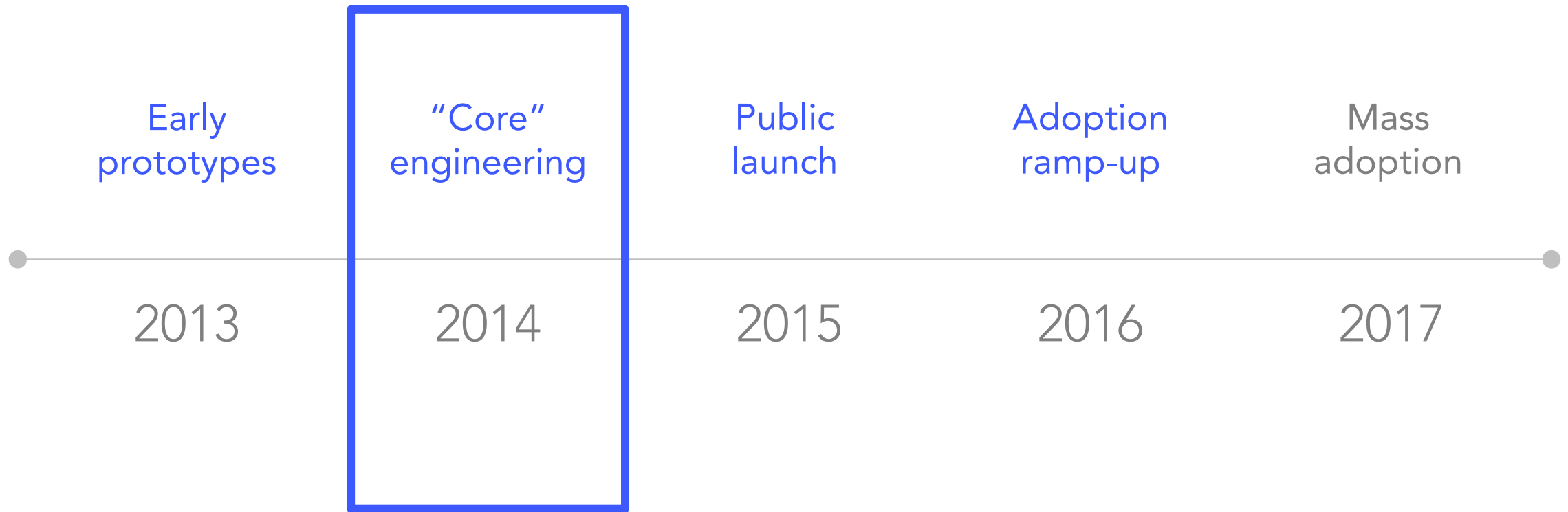
6787

SHARE



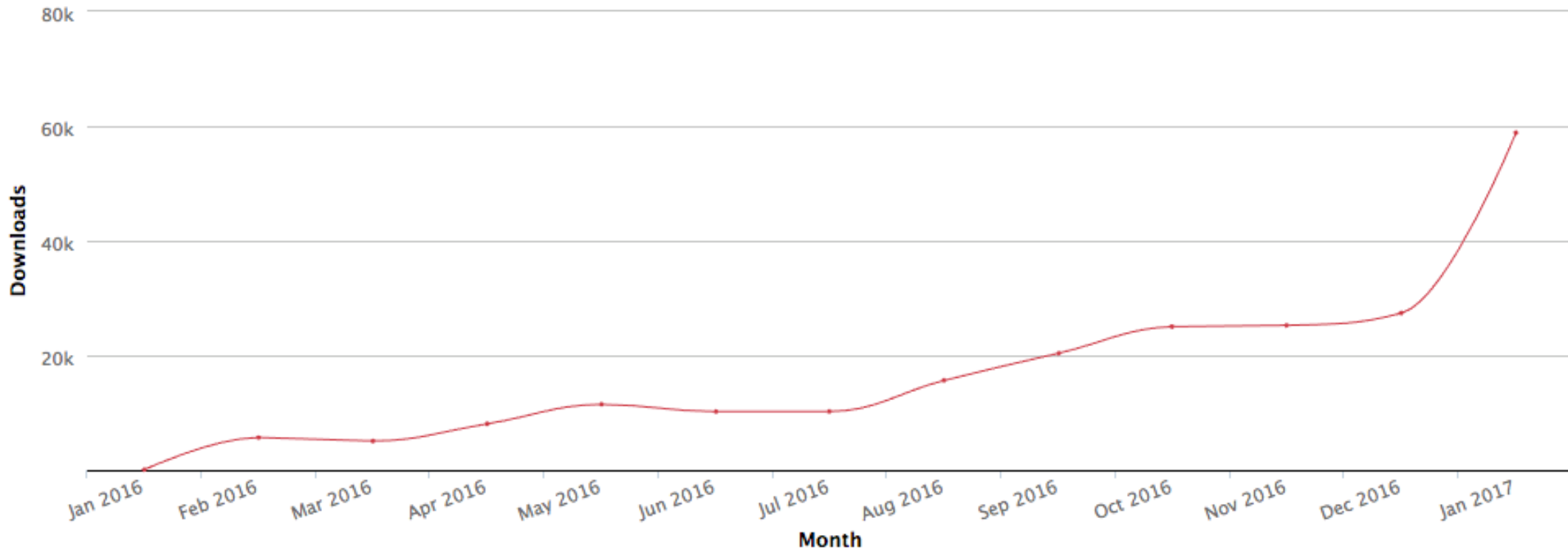




Project Timeline



Downloads per month
Click and drag in the plot to zoom in



<https://npm-stat.com/charts.html?package=nativescript&from=2016-01-31&to=2017-01-31>



NativeScript is...

A **free** and **open source** framework for building **truly native** mobile apps with **JavaScript**. Use web skills, like TypeScript, **Angular** and CSS, and **get native UI and performance** on iOS and Android.



NativeScript is the best tool for
cross-platform native app
development 🎉



5 reasons



1

Rich, animated,
"no compromise"
native UI 🐎
(with shared UI code)

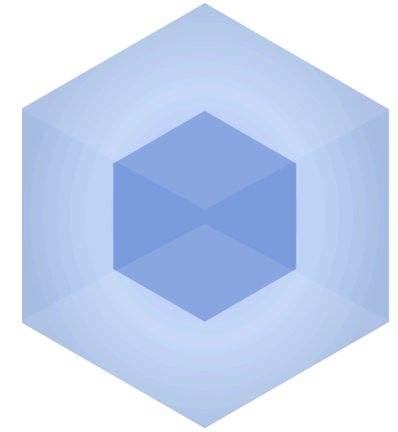


Search for
"Examples NativeScript"
in the iOS App Store or Google
Play to try this out for yourself.



2

Maximum
code and skill
reusability 🌮



TypeScript



Architecture Choices



or



or



3

Ease of doing native-y things 📷



NativeScript modules

```
import { File } from "file-system";  
new File();
```



```
new java.io.File( path );
```

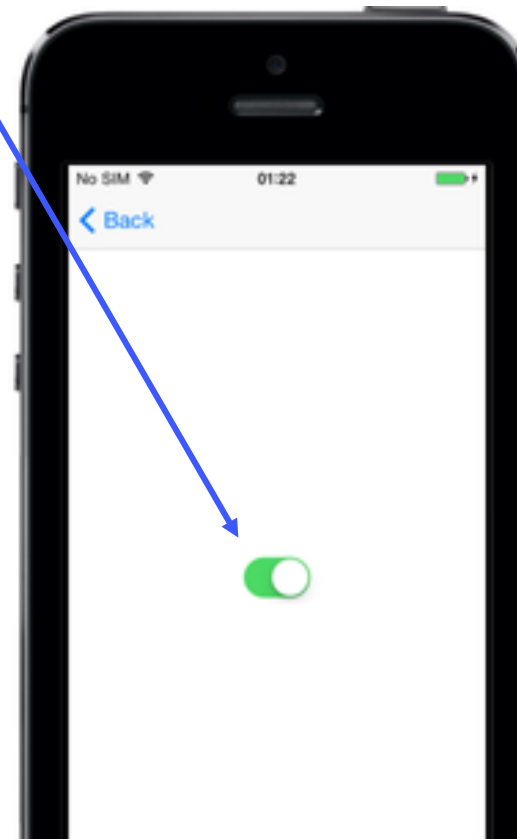
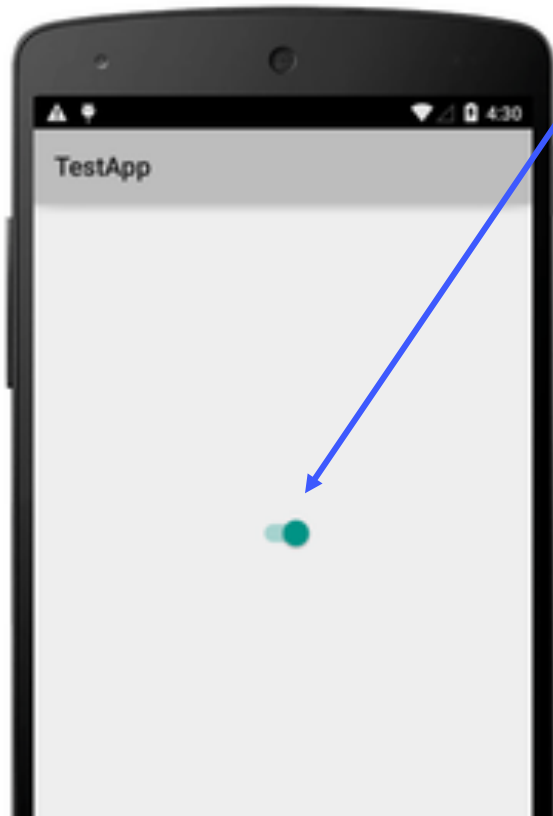


```
NSFileManager defaultManager();  
fileManager.createFileAtPathContentsAttributes(path);
```

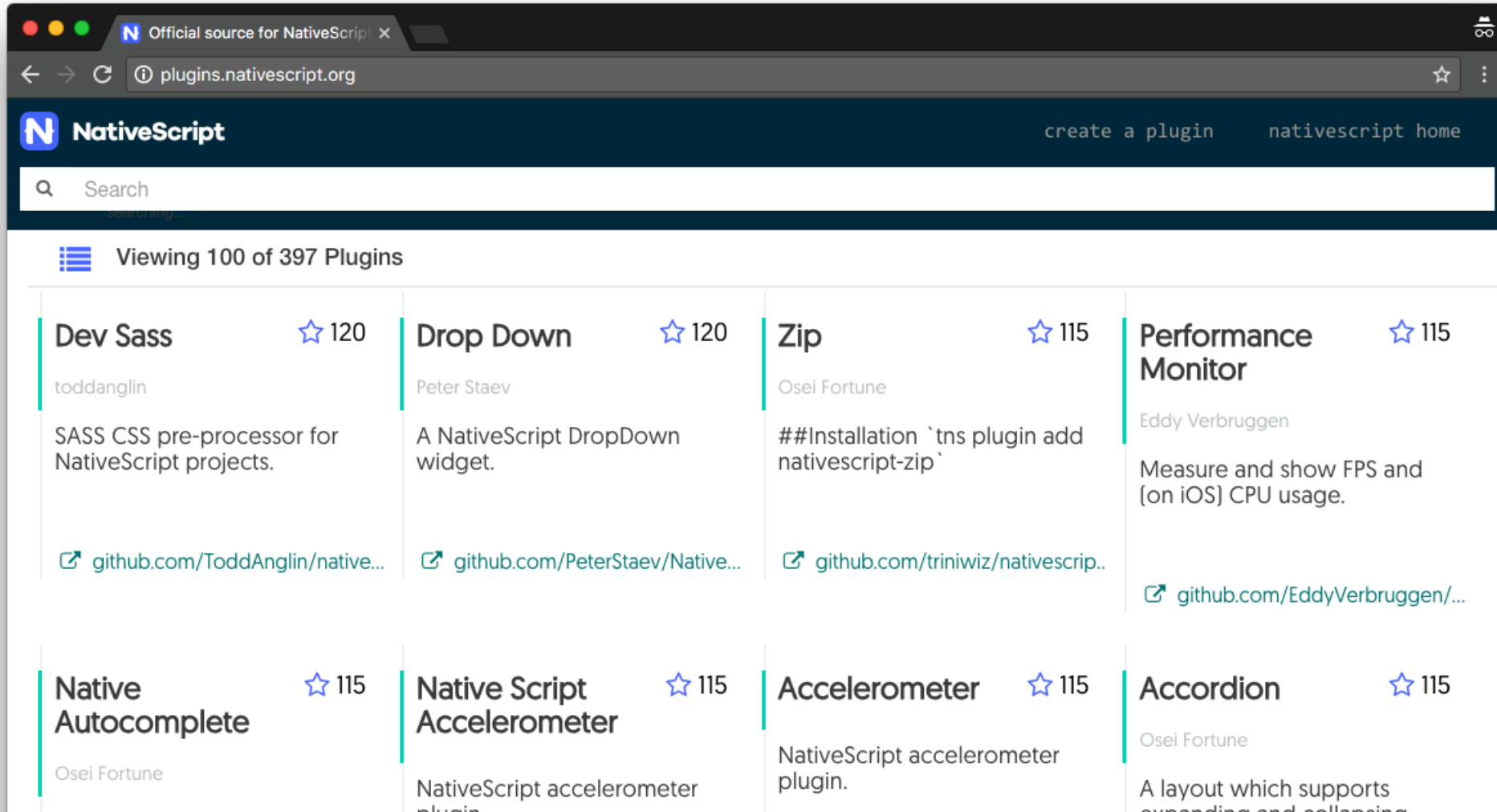


NativeScript modules for UIs

```
<Switch></Switch>
```



NativeScript Plugins Hub (plugins.nativescript.org)



The screenshot shows the NativeScript Plugins Hub website. The browser address bar displays 'plugins.nativescript.org'. The page header includes the NativeScript logo, a search bar, and navigation links for 'create a plugin' and 'nativescript home'. Below the header, a message indicates 'Viewing 100 of 397 Plugins'. The main content area features a grid of plugin cards, each with a title, author name, star rating, description, and a link to the GitHub repository.

Plugin Name	Author	Star Rating	Description	GitHub Link
Dev Sass	toddanglin	120	SASS CSS pre-processor for NativeScript projects.	github.com/ToddAnglin/native...
Drop Down	Peter Staev	120	A NativeScript DropDown widget.	github.com/PeterStaev/Native...
Zip	Osei Fortune	115	##Installation `tns plugin add nativescript-zip`	github.com/triniwiz/nativescrip..
Performance Monitor	Eddy Verbruggen	115	Measure and show FPS and (on iOS) CPU usage.	github.com/EddyVerbruggen/...
Native Autocomplete	Osei Fortune	115		
Native Script Accelerometer		115	NativeScript accelerometer plugin	
Accelerometer		115	NativeScript accelerometer plugin.	
Accordion	Osei Fortune	115	A layout which supports expanding and collapsing	



Reuse existing native Android and iOS libraries

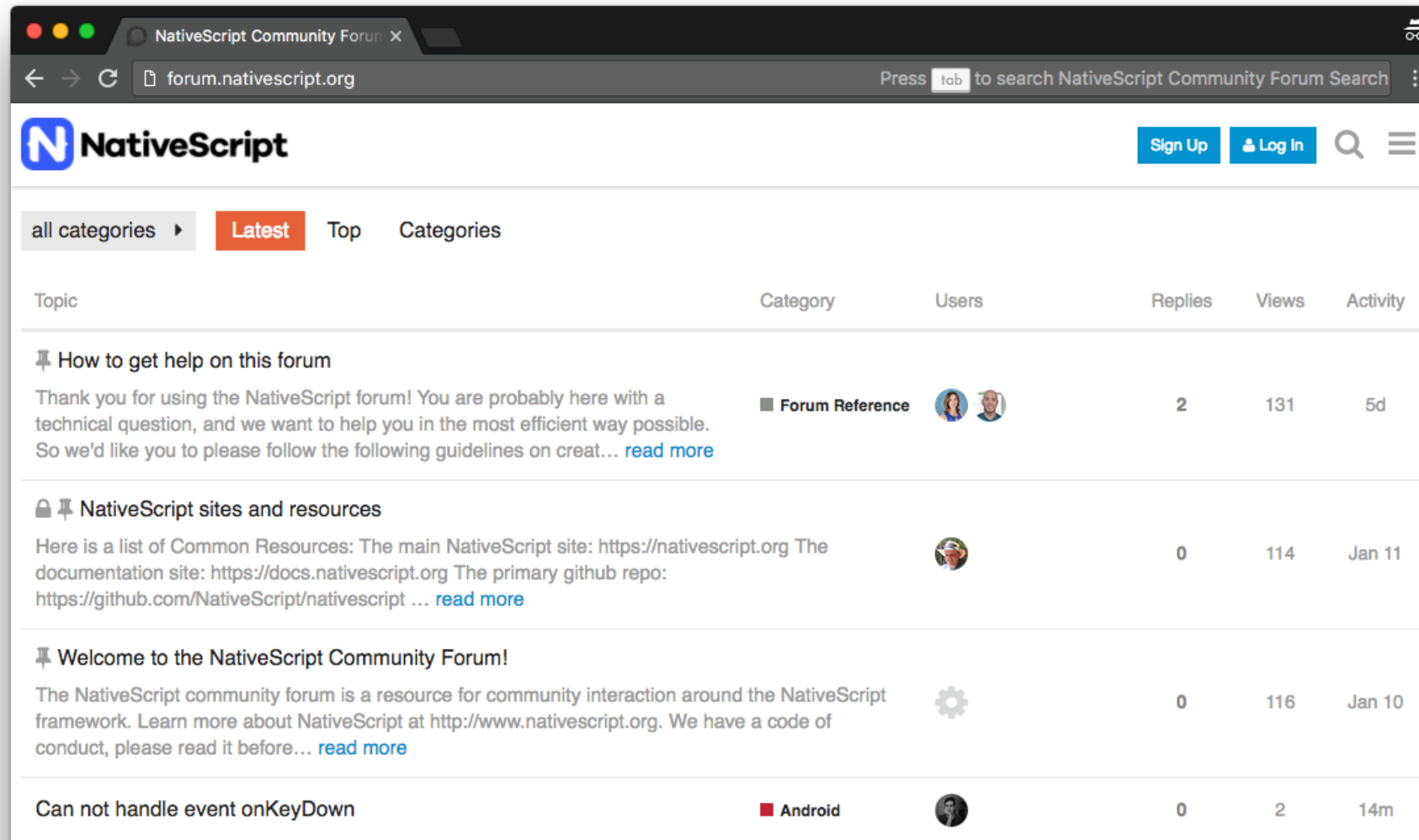


4





Vibrant and growing community 🌟💖



NativeScript community forum (forum.nativescript.org)



The screenshot shows the NativeScript Community Forum website. The browser address bar displays 'forum.nativescript.org'. The page header includes the NativeScript logo, 'Sign Up', and 'Log In' buttons. Below the header, there are navigation tabs for 'all categories', 'Latest', 'Top', and 'Categories'. The main content area is a table of forum topics with columns for Topic, Category, Users, Replies, Views, and Activity.

Topic	Category	Users	Replies	Views	Activity
<p>How to get help on this forum</p> <p>Thank you for using the NativeScript forum! You are probably here with a technical question, and we want to help you in the most efficient way possible. So we'd like you to please follow the following guidelines on creat... read more</p>	Forum Reference		2	131	5d
<p>NativeScript sites and resources</p> <p>Here is a list of Common Resources: The main NativeScript site: https://nativescript.org The documentation site: https://docs.nativescript.org The primary github repo: https://github.com/NativeScript/nativescript ... read more</p>			0	114	Jan 11
<p>Welcome to the NativeScript Community Forum!</p> <p>The NativeScript community forum is a resource for community interaction around the NativeScript framework. Learn more about NativeScript at http://www.nativescript.org. We have a code of conduct, please read it before... read more</p>			0	116	Jan 10
Can not handle event onKeyDown	Android		0	2	14m



NativeScript community Slack channel

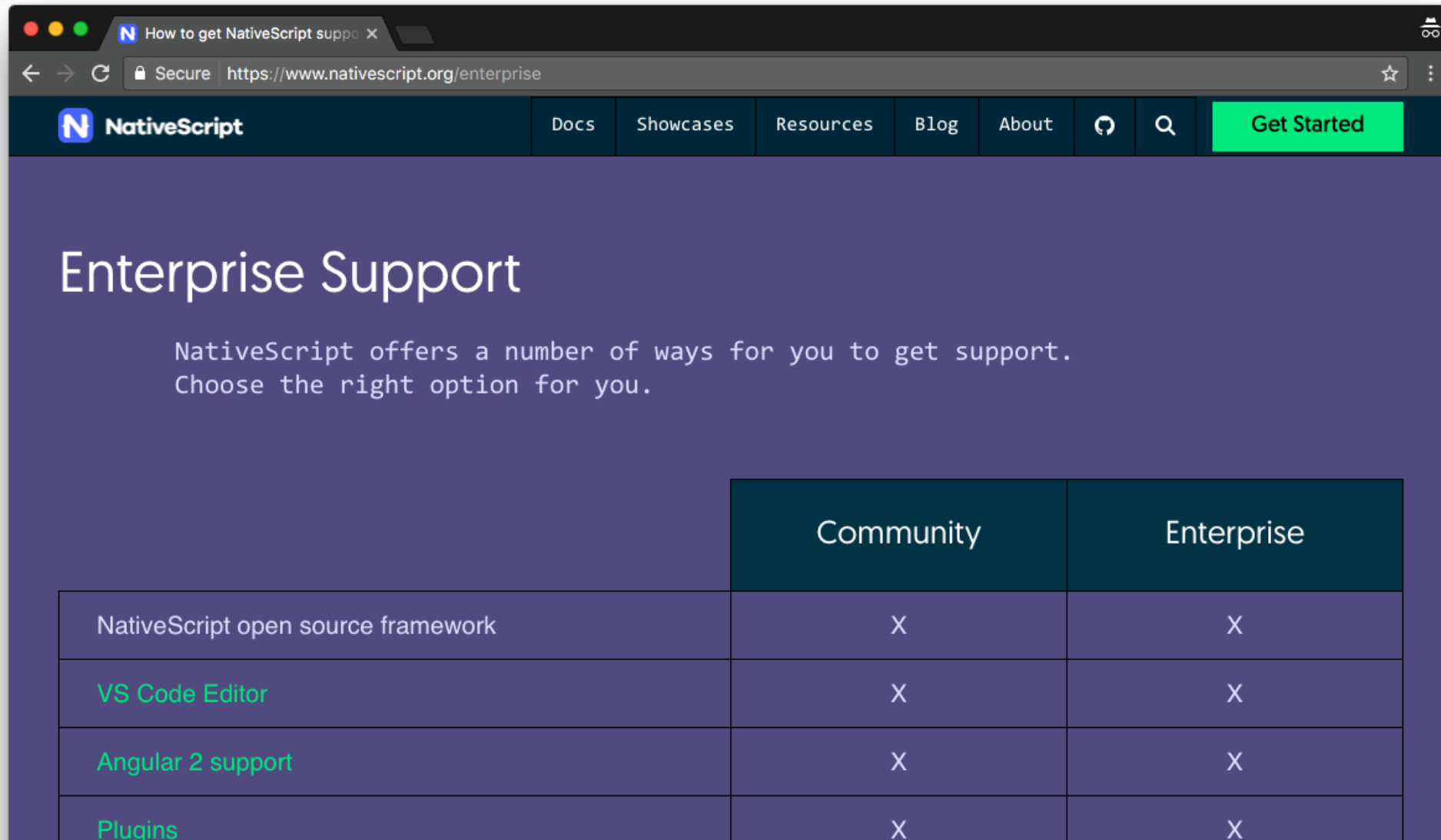
The screenshot shows the Slack interface for the NativeScript community. On the left is a sidebar with the workspace name 'Nativescript Co...' and a list of channels including #android, #firebase, #general (highlighted), #getting-started, #nativescript-spanish, #ns-angular2, #plugins, #random, #show-off, and #tutorials. The main area displays the '#general' channel with a search bar and channel statistics (3,067 members, 10 stars). A red arrow points to a message from 'IFTTT APP' with the title 'nativescript Listview is not displaying' and a link to a Stack Overflow question. Below it, a message from 'joappdev' asks for help integrating Parse JS SDK. Another message from 'markosko' responds that it's partially done as a plugin. A second message from 'joappdev' asks where to find the plugin, with a link to 'plugins.nativescript.org'. A final message from 'IFTTT APP' has the title 'How to get deeplink param for iOS in nativescript?' and a link to another Stack Overflow question. A blue NativeScript logo is in the bottom right corner.

5

Supported by a major software company
vested in your success 🧑🏻‍💼 🧑🏻‍💼




NativeScript offers enterprise support

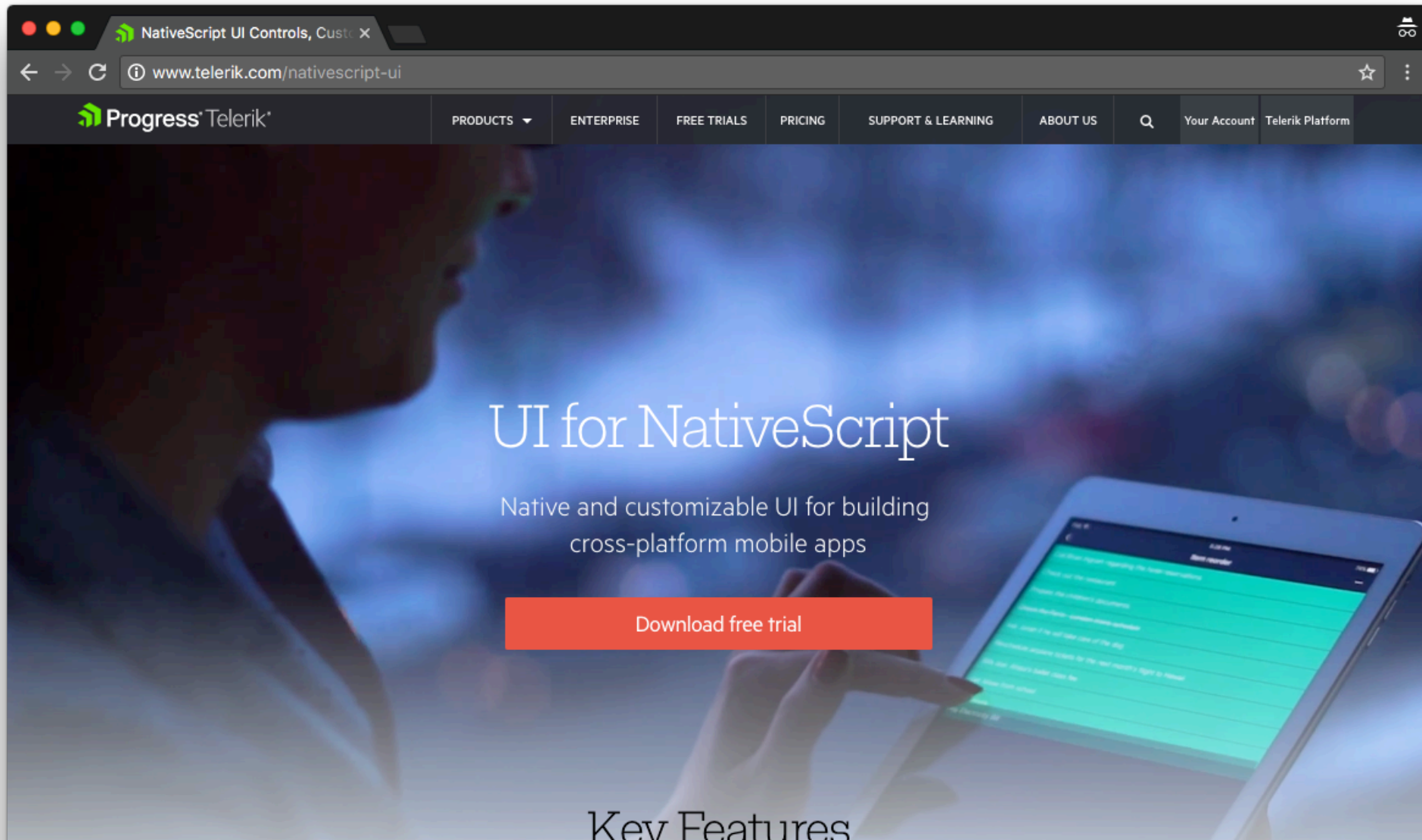


The screenshot shows a web browser window with the URL <https://www.nativescript.org/enterprise>. The page features a dark blue header with the NativeScript logo and navigation links: Docs, Showcases, Resources, Blog, About, a refresh icon, a search icon, and a prominent green 'Get Started' button. The main content area has a dark purple background with the heading 'Enterprise Support' and the text: 'NativeScript offers a number of ways for you to get support. Choose the right option for you.'

	Community	Enterprise
NativeScript open source framework	X	X
VS Code Editor	X	X
Angular 2 support	X	X
Plugins	X	X



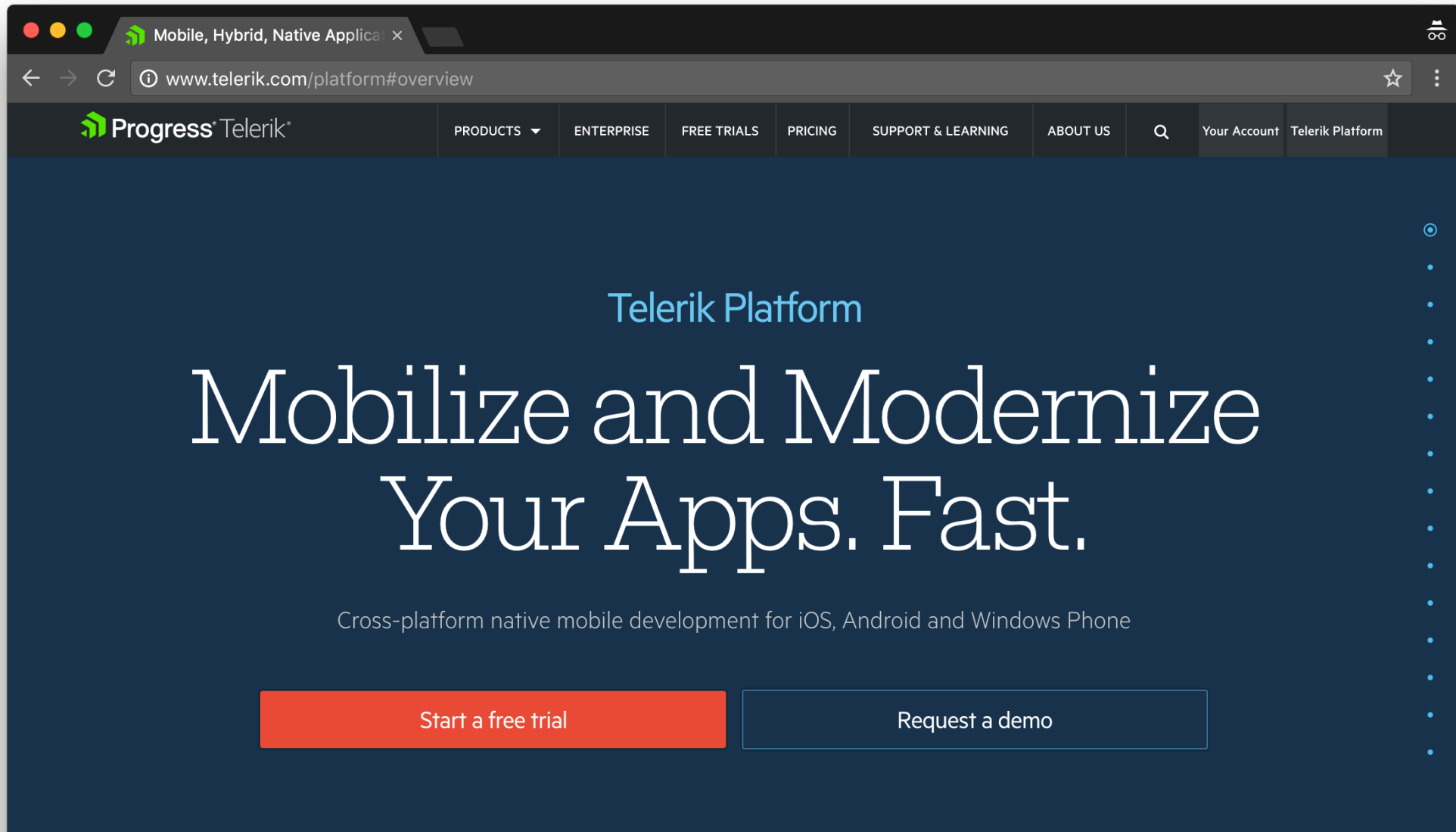
UI for NativeScript—premium UI components



The image shows a browser window displaying the landing page for NativeScript UI Controls. The browser's address bar shows the URL www.telerik.com/nativescript-ui. The page features a dark navigation bar with the Telerik logo and menu items: PRODUCTS, ENTERPRISE, FREE TRIALS, PRICING, SUPPORT & LEARNING, ABOUT US, Your Account, and Telerik Platform. The main content area has a blue-tinted background with a person's profile and a tablet. The text on the page reads: "UI for NativeScript", "Native and customizable UI for building cross-platform mobile apps", and a prominent orange button labeled "Download free trial". At the bottom, the text "Key Features" is partially visible.



Telerik Platform



The image shows a browser window displaying the Telerik Platform website. The browser's address bar shows the URL www.telerik.com/platform#overview. The website's navigation bar includes the Telerik logo, a search icon, and links for 'Your Account' and 'Telerik Platform'. The main content area features the heading 'Telerik Platform' in light blue, followed by the large white text 'Mobilize and Modernize Your Apps. Fast.' Below this, a subtitle reads 'Cross-platform native mobile development for iOS, Android and Windows Phone'. At the bottom, there are two buttons: a red 'Start a free trial' button and a white 'Request a demo' button with a blue border. A vertical scroll indicator is visible on the right side of the page.

Progress Telerik

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Telerik Platform

Mobilize and Modernize Your Apps. Fast.

Cross-platform native mobile development for iOS, Android and Windows Phone

Start a free trial Request a demo



5 Reasons to use NativeScript

- 1) Rich, animated native UI
- 2) Maximum code and skill reusability
- 3) Ease of doing native-y things
- 4) Vibrant and growing community
- 5) Supported by a major software company



NativeScript is the best tool for
cross-platform native app
development 🎉



Demo! 🔥



POKÉMON™



TJVanToll & Togepi



Level 34



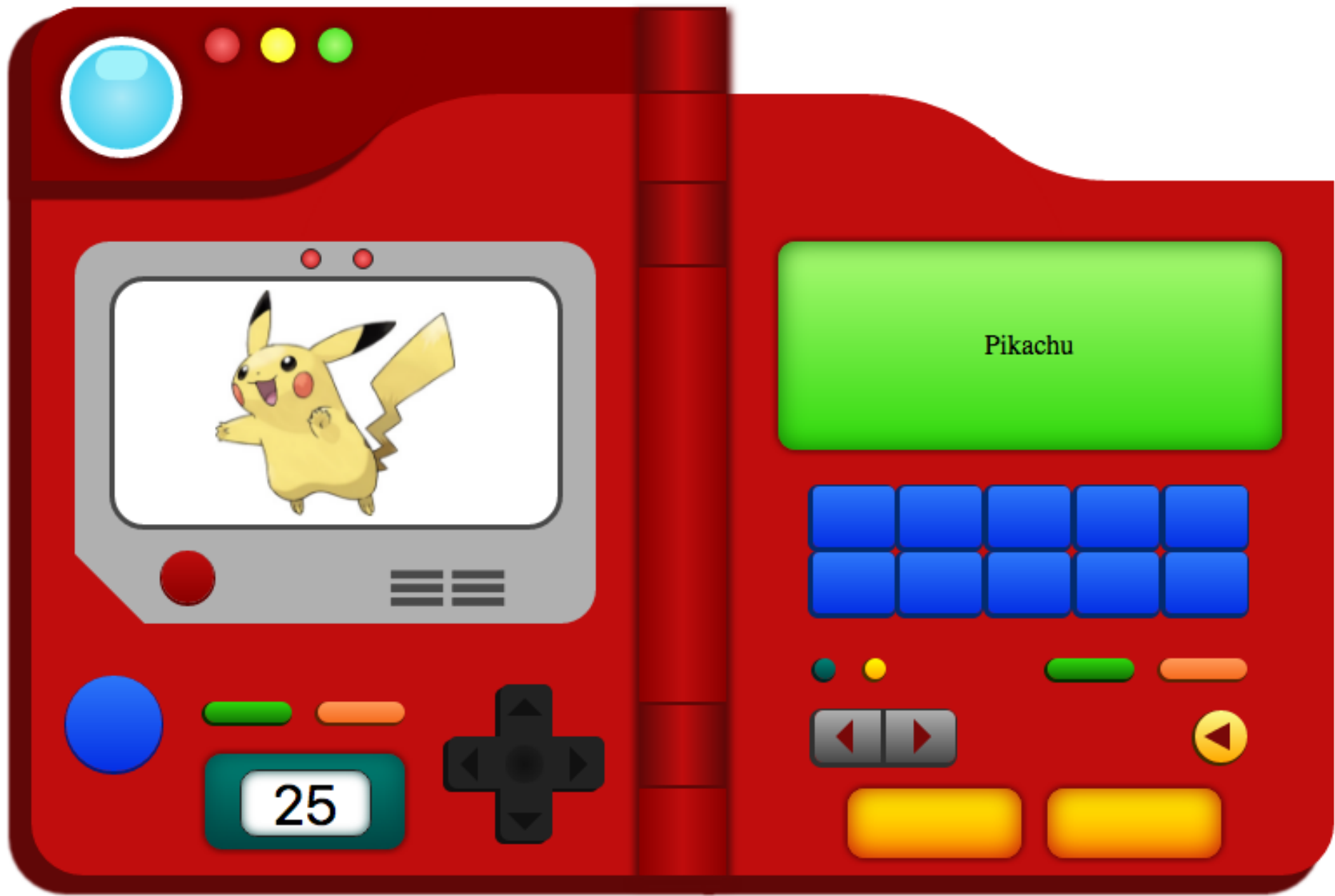
696514 / 1250000 XP

5446514 XP



START DATE:
7/8/2016





How many Pokémon are there?

801



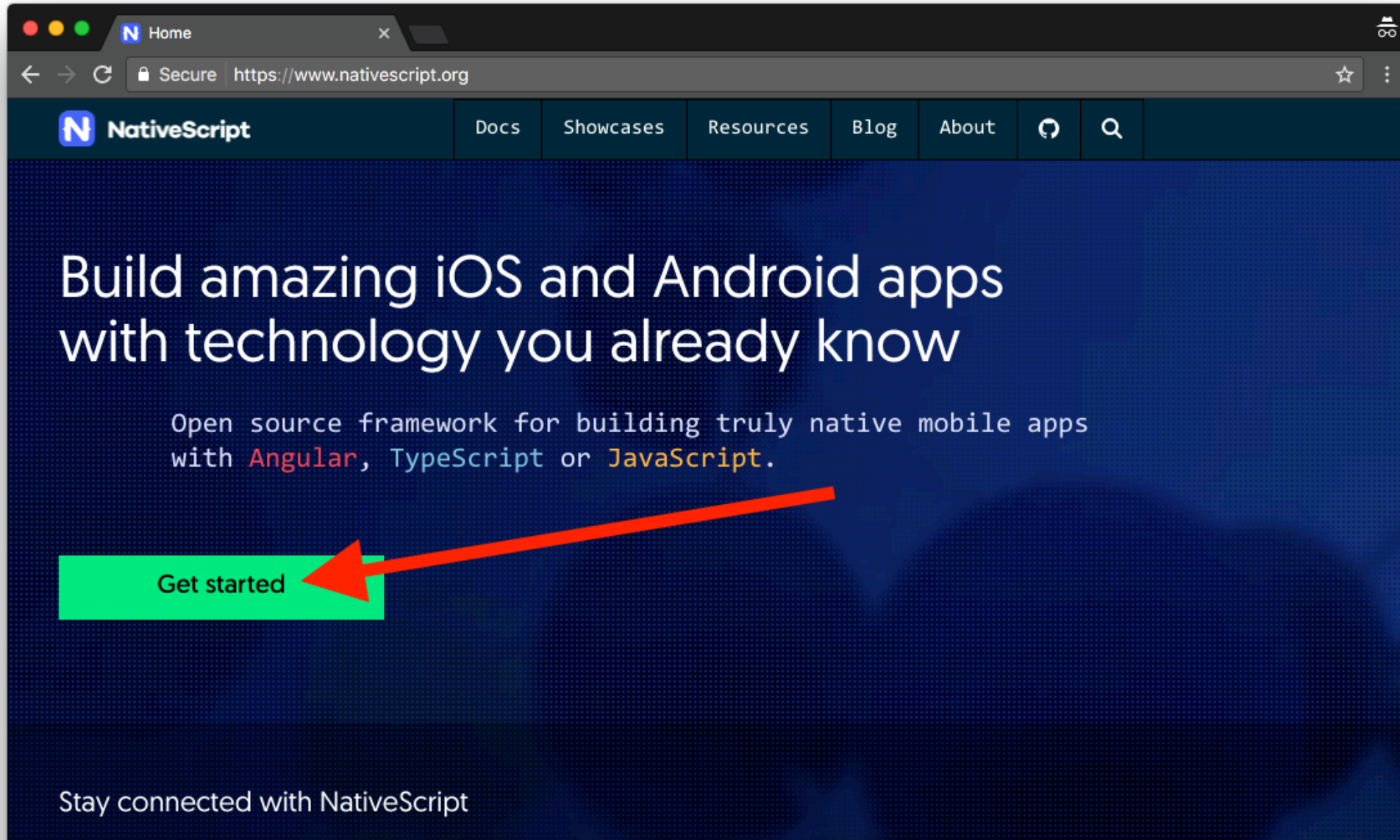
Follow NativeScript!

nativescript.org/nativescript-newsletter

twitter.com/nativescript



Get Started



The image shows a browser window displaying the NativeScript website. The browser's address bar shows the URL `https://www.nativescript.org`. The website's navigation menu includes links for `Docs`, `Showcases`, `Resources`, `Blog`, and `About`. The main content area features the headline `Build amazing iOS and Android apps with technology you already know` and a sub-headline `Open source framework for building truly native mobile apps with Angular, TypeScript or JavaScript.` A prominent green button labeled `Get started` is highlighted with a red arrow pointing to it from the right. At the bottom left, the text `Stay connected with NativeScript` is visible. The NativeScript logo, a blue square with a white 'N', is located in the bottom right corner of the page.

Thanks! 😊
@tjvantoll

