



NativeScript

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

TJ VanToll 
@tjvantoll





SUPER BOWL LI

New England Patriots



14-2

34

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





{N}

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™

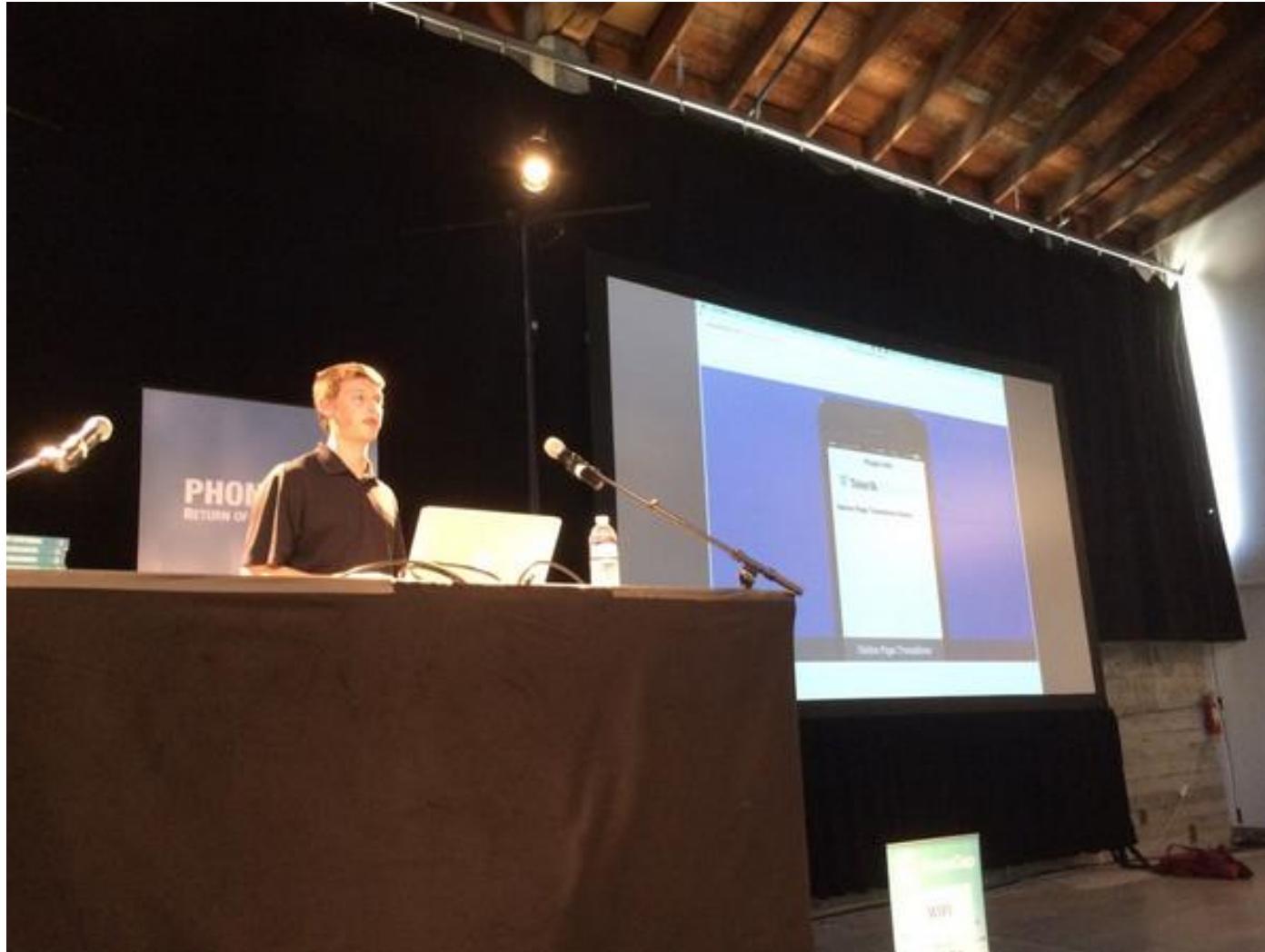




Telerik AppBuilder



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."*



The screenshot shows a web browser window with the title "Verified Plugins Marketplace" and the URL "plugins.telerik.com/cordova". The page header includes the Telerik by Progress logo and navigation links for PRODUCTS, ENTERPRISE, FREE TRIALS, PRICING, SUPPORT & LEARNING, ABOUT US, and a search icon. The main title "Cordova Plugins" is prominently displayed in large blue text. Below it is a subtitle: "Curated list of Cordova/PhoneGap plugins that have been thoroughly tested, documented, and extended to empower cross-platform hybrid mobile developers." A search bar with the placeholder "Search plugins" and a red "Search" button are visible. The main content area features a section titled "All Plugins" with a count of "77 Plugins". It includes sorting options: "SORT BY: A-Z | Recent | Downloads". A specific plugin entry for "3D Touch" by Eddy Verbruggen is shown, with an "iOS" icon, "936 Downloads", and a blue "View Details" button. To the right, there are filter and platform sections: "FILTER PLUGINS" (with "All Plugins" selected), "BY PLATFORM" (with "Android" and "iOS" listed). The footer contains the text "Telerik © 2015 All rights reserved".

Verified Plugins Marketplace | [TJ](#)

plugins.telerik.com/cordova

Telerik® by Progress

PRODUCTS ▾ ENTERPRISE FREE TRIALS PRICING SUPPORT & LEARNING ABOUT US

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 by Eddy Verbruggen [View Details](#)

iOS 936 Downloads

FILTER PLUGINS

[All Plugins](#) All Plugins

BY PLATFORM

[Android](#) [iOS](#)

Telerik © 2015 All rights reserved



Native Page Transitions

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

Telerik by Progress

PRODUCTS ▾ ENTERPRISE FREE TRIALS PRICING SUPPORT & LEARNING ABOUT US Q

Cordova Plugins

Native Page Transitions

Version: 0.6.5 , May 24, 2016

Android iOS Windows

Load in Telerik Platform

Load this plugin into a new Telerik Platform project to see how it works.

OR

Download Plugin

Read instructions for:

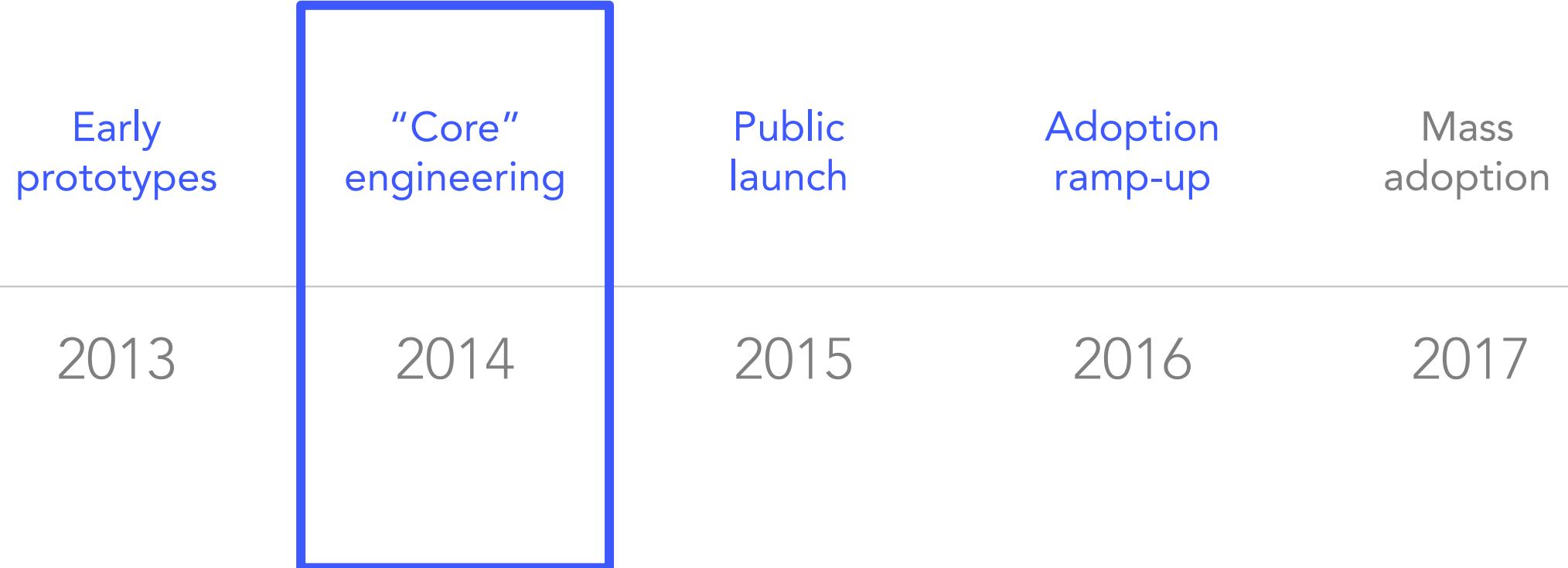
- Install plugin using Cordova CLI
- Install plugin using AppBuilder CLI
- Install plugin using AppBuilder IDE

SHARE

f G+ Twitter

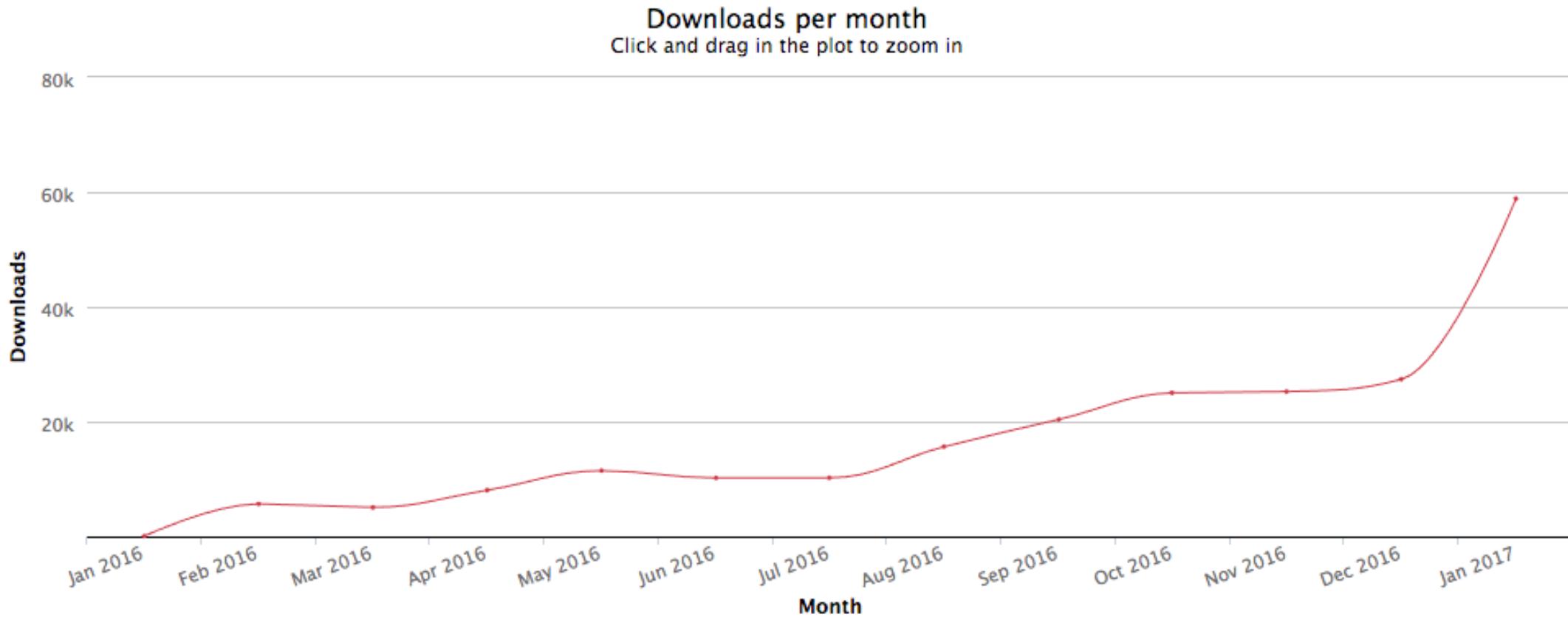
This screenshot shows the official page for the Native Page Transitions plugin on the Telerik website. The page features a large title 'Native Page Transitions' and a subtitle 'Cordova Plugins'. It includes download statistics (6787) and sharing options for Facebook, Twitter, and Google+. Two main action buttons are present: 'Load in Telerik Platform' (red button) and 'Download Plugin' (dark blue button). Below the platform button, there's a note about loading the plugin into a Telerik Platform project. To the right of the download button, installation instructions are provided for Cordova CLI, AppBuilder CLI, and AppBuilder IDE. The top navigation bar includes links for Products, Enterprise, Free Trials, Pricing, Support & Learning, About Us, and a search function.





Project Timeline





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

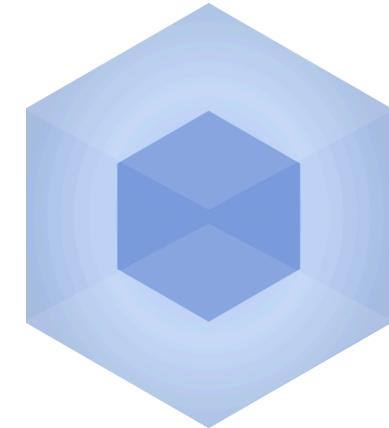
Maximum
code and skill
reusability 



CSS



Sass



TypeScript



Architecture Choices



JS

or

TypeScript

TypeScript

or



3

Ease of doing native-y things



NativeScript modules

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



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

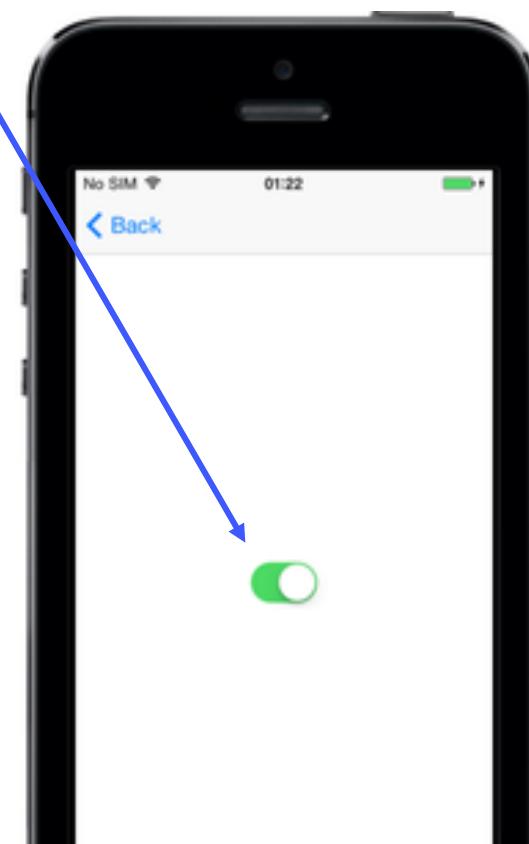
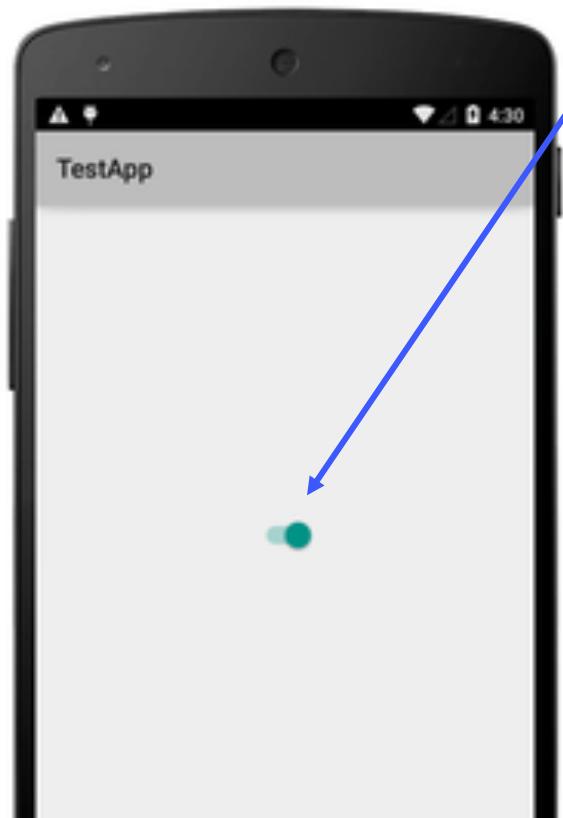


```
NSFileManager.defaultManager();  
fileManager.createFileAtPathContentsAttributes(path);
```



NativeScript modules for UIs

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



NativeScript Plugins Hub (plugins.nativescript.org)

The screenshot shows a web browser displaying the NativeScript Plugins Hub at plugins.nativescript.org. The page has a dark blue header with the NativeScript logo and navigation links for "create a plugin" and "nativescript home". A search bar is present at the top. The main content area displays a grid of plugin cards. Each card includes the plugin name, developer name, star rating, description, GitHub link, and a snippet of code or usage instructions.

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



Reuse existing native Android and iOS libraries



Android Arsenal

⟨COCOAPODS⟩



4

Vibrant and growing community ❤️



NativeScript community forum (forum.nativescript.org)

NativeScript Community Forum X ∞

forum.nativescript.org Press **tab** to search NativeScript Community Forum Search :

N NativeScript Sign Up Log In Search ⌂

all categories ▶ Latest Top Categories

| Topic | Category | Users | Replies | Views | Activity |
|--|-----------------|---|---------|-------|----------|
| ↳ How to get help on this forum 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 | Forum Reference |  | 2 | 131 | 5d |
| ↳ 🔒 NativeScript sites and resources 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 | |  | 0 | 114 | Jan 11 |
| ↳ Welcome to the NativeScript Community Forum! 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 | |  | 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 channel. On the left, there's a sidebar with various icons and a list of channels. The **#general** channel is selected, highlighted with a green bar at the bottom of the list. A red arrow points from the top-left towards the first message in the main pane.

#general

3,067 | 10 | <http://forum.nativescript.org>

IFTTT APP 8:05 AM **nativescript - Stack Overflow** <http://ift.tt/2IGeTXD>

IFTTT APP 8:05 AM **nativescript ListView is not displaying**
nativescript ListView is not displaying by Khushi Sharma via Newest questions tagged nativescript - Stack Overflow <http://ift.tt/2kj7b9z>

Image not found

joappdev 8:09 AM
hi everyone. I'm new here. Just completed the tutorial of Typescript + NS +Angular2 in the official site. I'm searching how to integrate Parse JS SDK with it. I should be grateful if you could give me some directions.

markosko 8:11 AM
@joappdev i think its only in partially done as plugin probably

joappdev 8:18 AM
I can't find the plugin in <http://plugins.nativescript.org> . Should I build by myself?
In this situation, 1.modifying the JS SDK or 2.build plugin to integrate iOS,android SDK.
which would be easier ?

markosko 8:34 AM
@joappdev sometimes people wont add partially done

IFTTT APP 8:40 AM **How to get deeplink param for iOS in nativescript?**
How to get deeplink param for iOS in nativescript? by Zahid via Newest questions tagged nativescript - Stack Overflow <http://ift.tt/2IHOMA8>

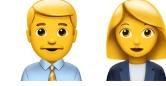
Image not found

DIRECT MESSAGES

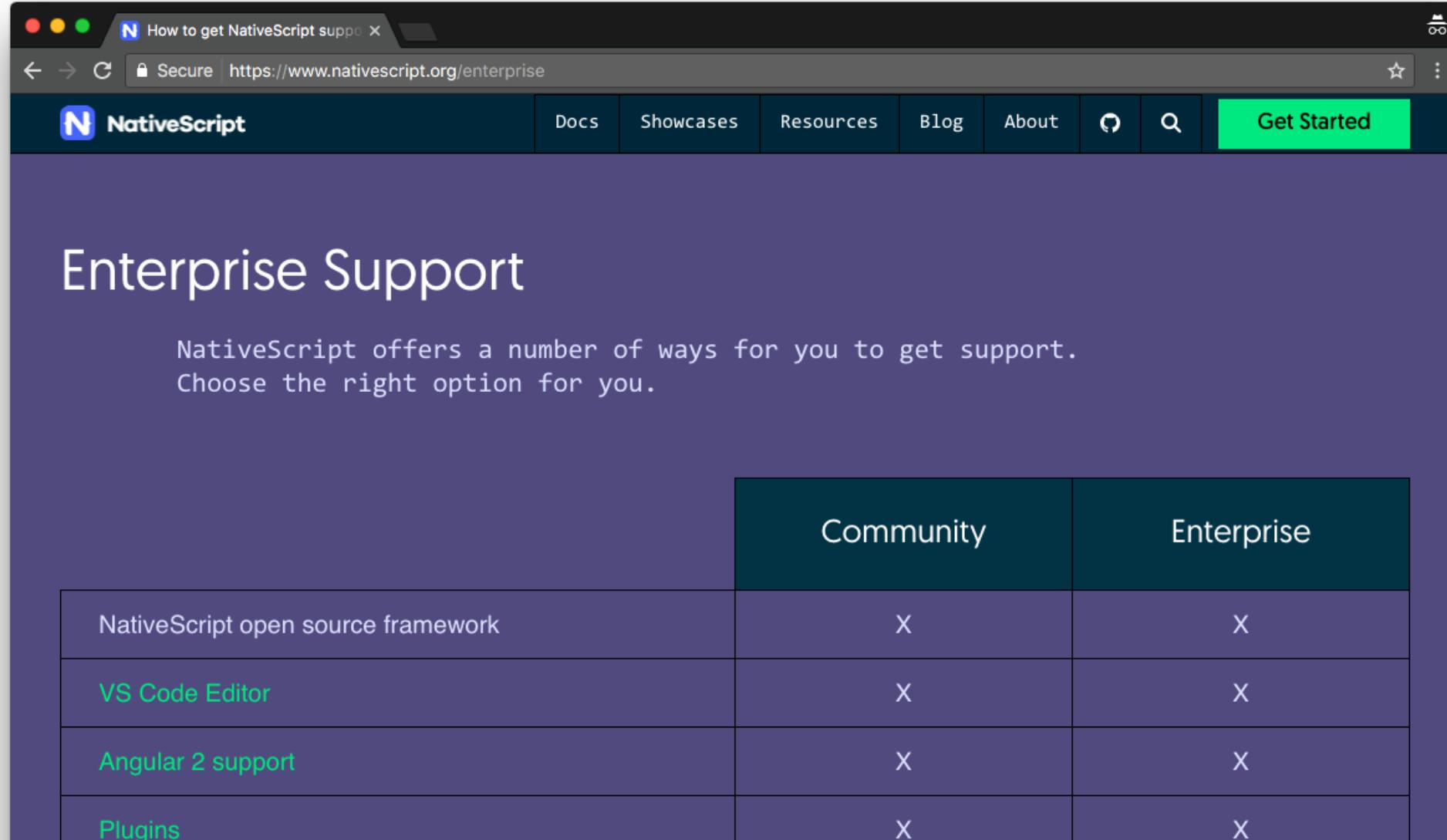


5

Supported by a major software company
vested in your success



NativeScript offers enterprise support

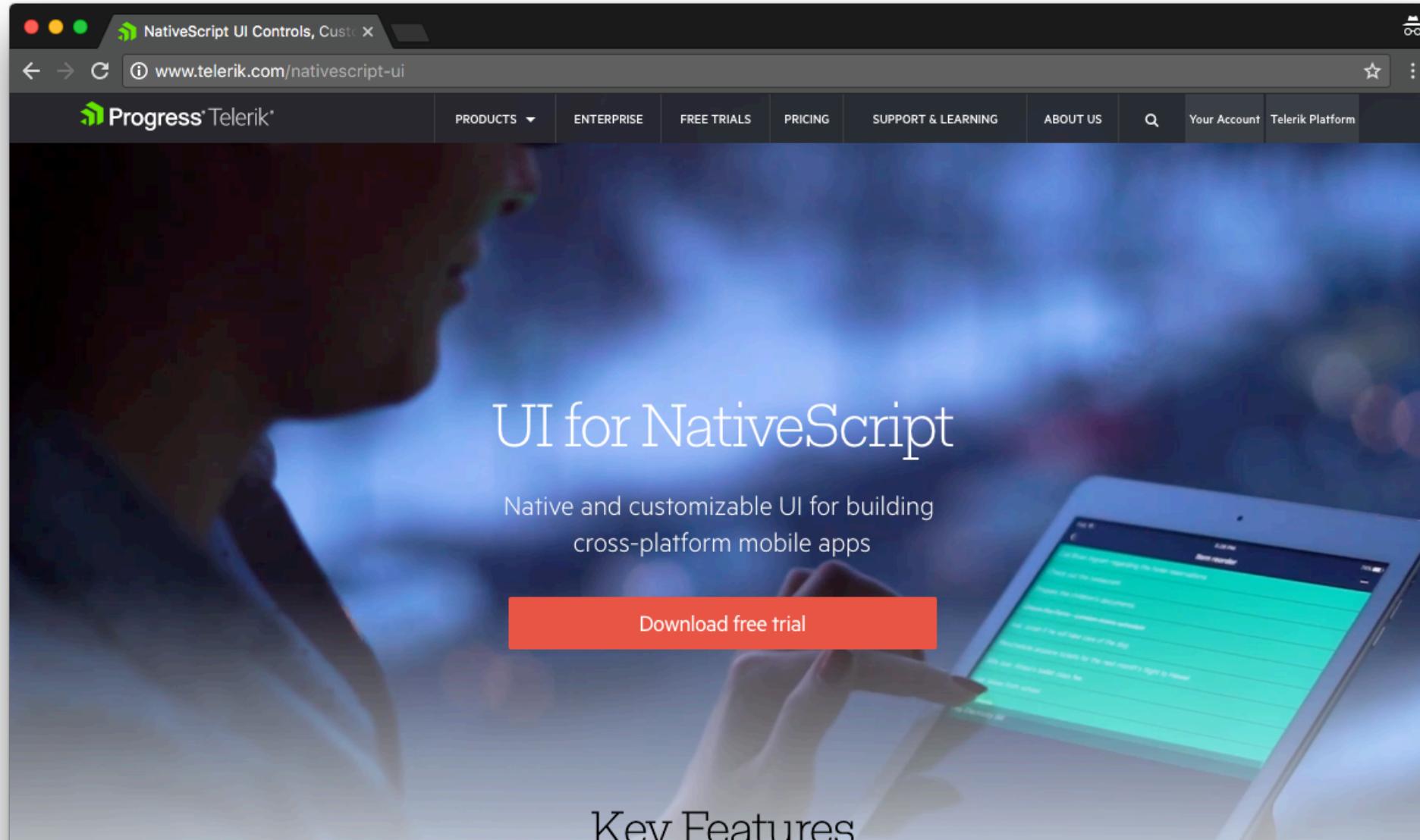


The screenshot shows a web browser window displaying the NativeScript website at <https://www.nativescript.org/enterprise>. The page has a dark purple header with the NativeScript logo and navigation links for Docs, Showcases, Resources, Blog, About, and Get Started. The main content area features a large white title 'Enterprise Support' and a subtext: 'NativeScript offers a number of ways for you to get support. Choose the right option for you.' Below this is a comparison table.

| | 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



Key Features

Telerik Platform

The screenshot shows a web browser window displaying the Telerik Platform homepage. The URL in the address bar is www.telerik.com/platform#overview. The page has a dark blue header with the Progress Telerik logo and navigation links for PRODUCTS, ENTERPRISE, FREE TRIALS, PRICING, SUPPORT & LEARNING, ABOUT US, and a search icon. The main content area features a large white title 'Telerik Platform' and a subtitle 'Mobilize and Modernize Your Apps. Fast.' Below this is a sub-subtitle 'Cross-platform native mobile development for iOS, Android and Windows Phone'. At the bottom are two calls-to-action: 'Start a free trial' in an orange button and 'Request a demo' in a white button. A blue decorative graphic with a repeating dot pattern runs vertically along the right side of the main content area.

Mobile, Hybrid, Native Application Development

www.telerik.com/platform#overview

Progress Telerik

PRODUCTS ▾ ENTERPRISE FREE TRIALS PRICING SUPPORT & LEARNING ABOUT US

Your Account Telerik Platform

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! 🔥

N

Pokémon™



TJVanToll
& Togepi



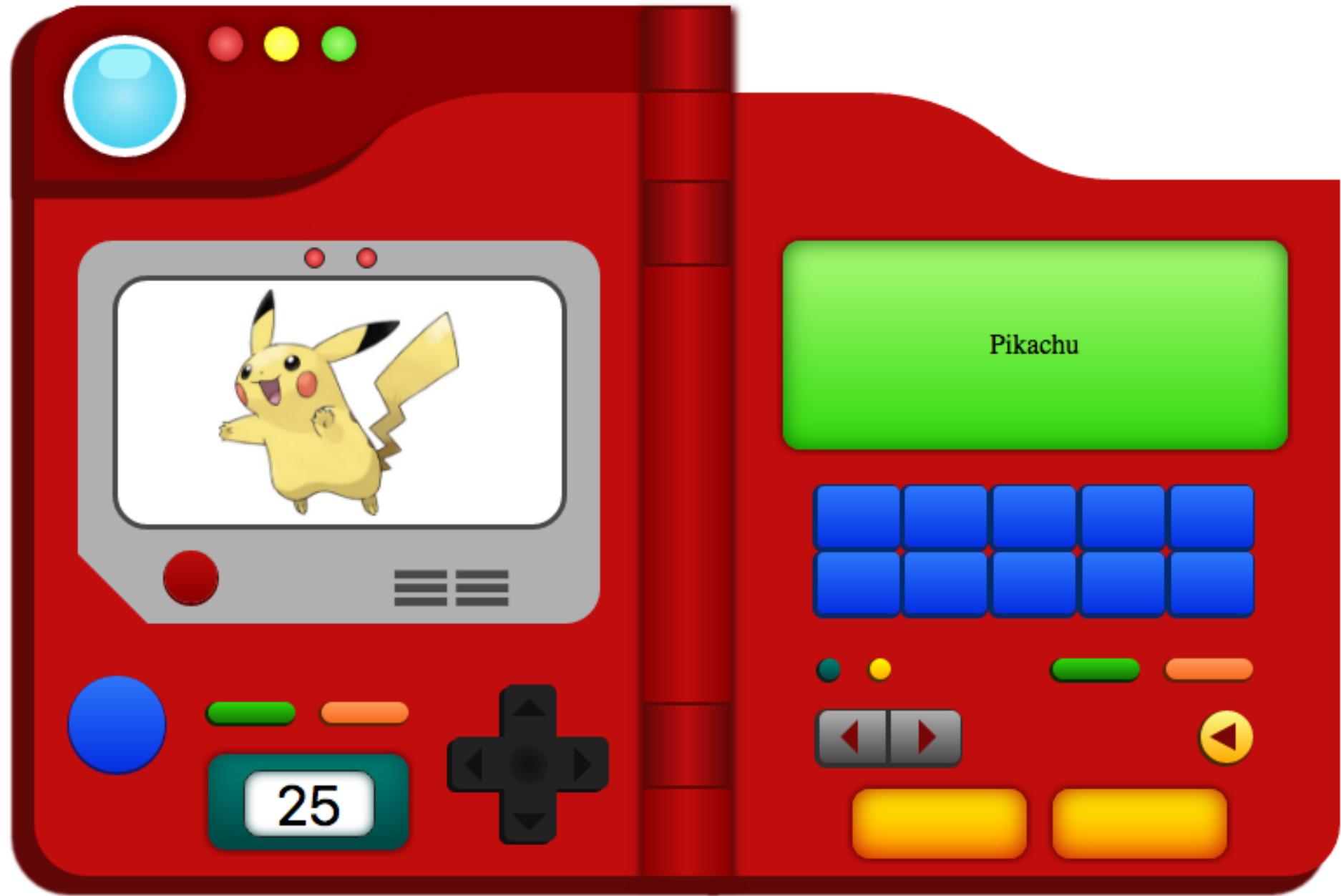
Level 34

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

A screenshot of a web browser displaying the NativeScript homepage. The URL in the address bar is <https://www.nativescript.org>. The page features a dark blue background with white text. At the top, there is a navigation bar with links for Home, Docs, Showcases, Resources, Blog, About, and a search icon. The main headline reads: "Build amazing iOS and Android apps with technology you already know". Below the headline, a subtext states: "Open source framework for building truly native mobile apps with **Angular**, **TypeScript** or **JavaScript**". At the bottom left, there is a green button with the text "Get started". A large red arrow points from the right side towards this button. In the bottom right corner of the image, there is a blue square icon containing a white stylized letter 'N'.

Get started

Stay connected with NativeScript

Thanks! 😊
[@tjvantoll](https://twitter.com/tjvantoll)

