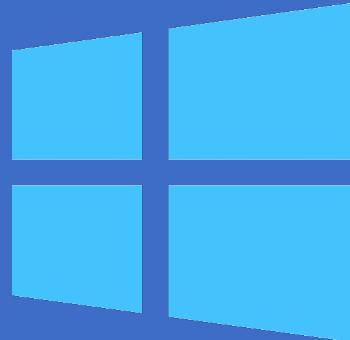


Telerik AppBuilder

Let's get going .. You're going to love this!



So, you want to build a mobile app?



bada



See the problem?

Yeah, let's not always do that.

There is a better way

You need Cross-Platform!

Use your Web skills

Build Hybrid Cross-Platform mobile apps!

Why you'll love Hybrid

- True single Codebase for all platforms
- Ease of HTML5/CSS/JavaScript
- Access to Native APIs
- App Store presence & monetization
- Users cannot tell the difference

Introducing



Part of the Telerik Platform

AppBuilder

Hybrid Mobile Development, simplified!

1. Developer Freedom
2. End-to-End Tooling
3. All needed Services

AppBuilder under Covers

Uses Apache Cordova
JavaScript proxies to Native APIs

Let's build an App

Where to begin?

Head over to

<https://platform.telerik.com>

And sign in ..

Get set up

WorkSpace - Placeholder for AppBuilder projects

Create a new one!

The screenshot shows the Telerik Platform Workspaces interface. At the top, there's a navigation bar with links for Downloads, Documentation, and a user profile for Samidip Basu. Below the navigation, the main area is titled "Workspaces". It features two workspace cards:

- Friends App**: A sample workspace with a "SAMPLE" badge. Description: "Use this sample to experience a fully-fledged app built with all Telerik Platform services". Contains 6 Projects and 1 Member.
- AppBuilder Demos**: A workspace containing 6 Projects and 1 Member.

On the right side, there's an "AppManager" section with a "Open AppManager" button and a diagram illustrating the distribution of mobile apps. Text below the diagram says: "Securely distribute mobile apps to testers and end users without leaving the Telerik Platform."

Start

Once you have a WorkSpace, create a Project

Pick AppBuilder Hybrid

+ Create project

-  **AppBuilder Hybrid project**
Develop, test, and publish cross-platform hybrid mobile apps using HTML, CSS, and JavaScript.
-  **AppBuilder Native project**
Develop, test, and build cross-platform native mobile apps using NativeScript with JavaScript or TypeScript. BETA
-  **Backend Services project**
Manage a backend for app data and files storage, user management, cloud code, email and push notifications.
-  **Analytics project**
Discover usage patterns, analyze user data, log exceptions, trace problems and monitor app performance.
-  **Mobile Testing project**
Test native, web and hybrid apps without jailbreaking your device
-  **AppFeedback project**
Receive and manage in-app feedback coming directly from your app.
-  **AppPrototyper project**
Build interactive high-fidelity prototypes for your mobile apps. Export them to AppBuilder.

Next up, choose a template And name your app!

The screenshot shows a web browser window for the Telerik Platform AppBuilder Demos. The URL is <https://platform.telerik.com/#workspace/fac15b81-51f1-43cd-8b01-c48de26cb7f0/create-project/appbuilder-hybrid>. The page title is "Create AppBuilder Hybrid Project". A callout box highlights the "AppBuilder Hybrid Project Templates" section, which contains instructions: "Select a project template to start your mobile app development." Below this, a list of templates is shown:

- Blank (JavaScript)**
A cross-platform mobile device application developed with Apache Cordova 3.5.0.
- Telerik Friends**
A cross-platform mobile device application developed with Telerik Platform.
- Kendo UI Drawer (JavaScript)**
A cross-platform mobile device application with Drawer navigation.
- Kendo UI Blank (JavaScript)**
A cross-platform mobile device application developed with Kendo UI Core.
- Kendo UI TabStrip (JavaScript)**
A cross-platform mobile device application with TabStrip navigation.
- Blank (TypeScript)**
A cross-platform mobile device application developed with Apache Cordova 3.5.0 using TypeScript.

Below the template list, there are input fields for "Project name" (containing "MyHybridApp") and "Description".

Wait .. as Unicorns create your
AppBuilder Project

Voila .. your Mobile dev kit In a Browser!

The screenshot shows the Telerik Platform AppBuilder interface for developing a hybrid mobile application named "MyHybridApp".

UI Library: On the left, there's a library of UI components categorized into Views, Dialogs, Containers, Widgets, and others like ListView & Form Elements, DataViz, etc.

Designer: In the center, there's a visual designer for a "Tablet" device, set to "iOS" and "7.0" resolution, showing a basic layout structure.

Code Editor: To the right of the designer is a code editor displaying the `index.html` file content:

```
<!DOCTYPE html>
<html>
<head>
    <title></title>
    <meta charset="utf-8" />
    <link href="kendo/styles/kendo.mobile.all.min.css" rel="stylesheet" />
    <link href="styles/main.css" rel="stylesheet" />

    <script src="cordova.js"></script>
    <script src="kendo/js/jquery.min.js"></script>
    <script src="kendo/js/kendo.mobile.min.js"></script>

    <script src="scripts/app.js"></script>
</head>
<body>

    <div data-role="layout" data-id="main">
        <div data-role="header">
            <div data-role="navbar">
                <span data-role="view-title"></span>
            </div>
        </div>

        <!-- application views will be rendered here -->

        <div data-role="footer">
            <div data-role="tabstrip">
                <a href="views/home.html" data-icon="home">Home</a>
                <a href="views/settings.html" data-icon="settings">Settings</a>
                <a href="views/contacts.html" data-icon="settings">Contacts</a>
            </div>
        </div>
    </div>
</body>
</html>
```

Project Navigator: On the right, it shows the project structure with files like `cordova.js`, `Properties`, `App_Resources`, `kendo`, `scripts`, `styles`, `views`, and `index.html`.

Output: At the bottom, it shows log messages:

```
[2014-08-14 15:56:58.605] Loading solution MyHybridApp ...
[2014-08-14 15:56:59.871] Solution loading finished.
[2014-08-14 15:56:59.875] Logged as: samidip@live.com
```

AppBuilder In-browser Client

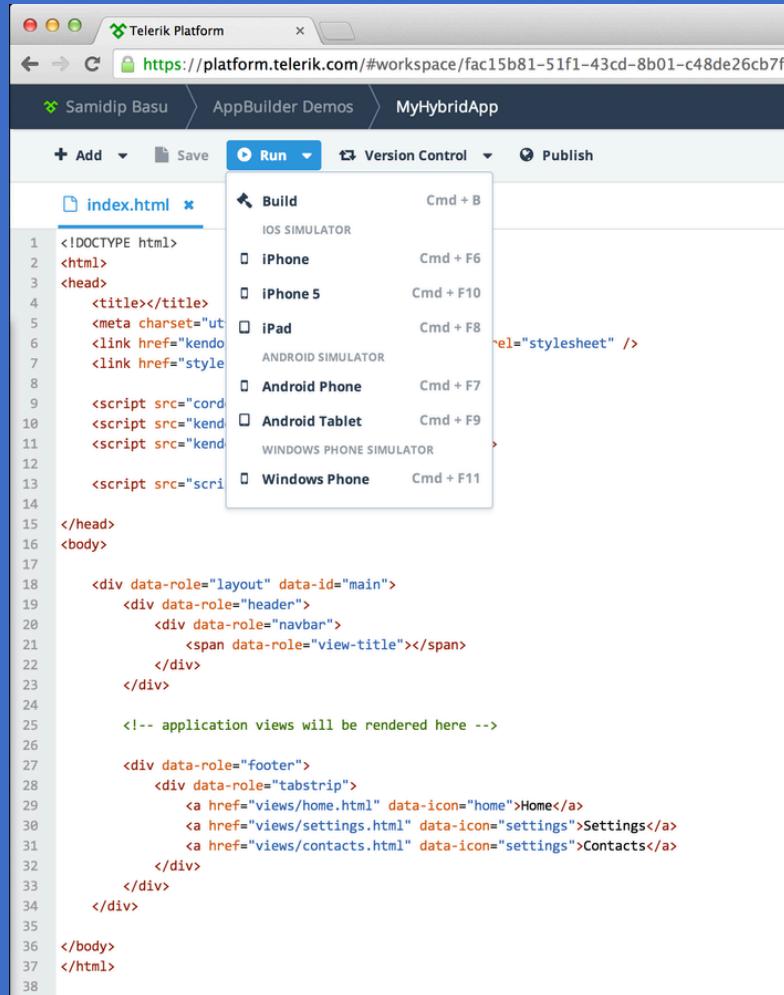
- Solution Explorer
- Device-specific WYSIWIG panel
- Markup/JS Editor with syntax highlighting
- File Manager & OutPut window
- Build/Deploy/Publish options

Seeing is believing

Project looks good

But, where can we run our App?

Just pick your platform And fire away!



The screenshot shows the Telerik Platform AppBuilder interface. The main window displays the code for index.html. A context menu is open over the code editor, specifically over the line containing the CSS link declaration:

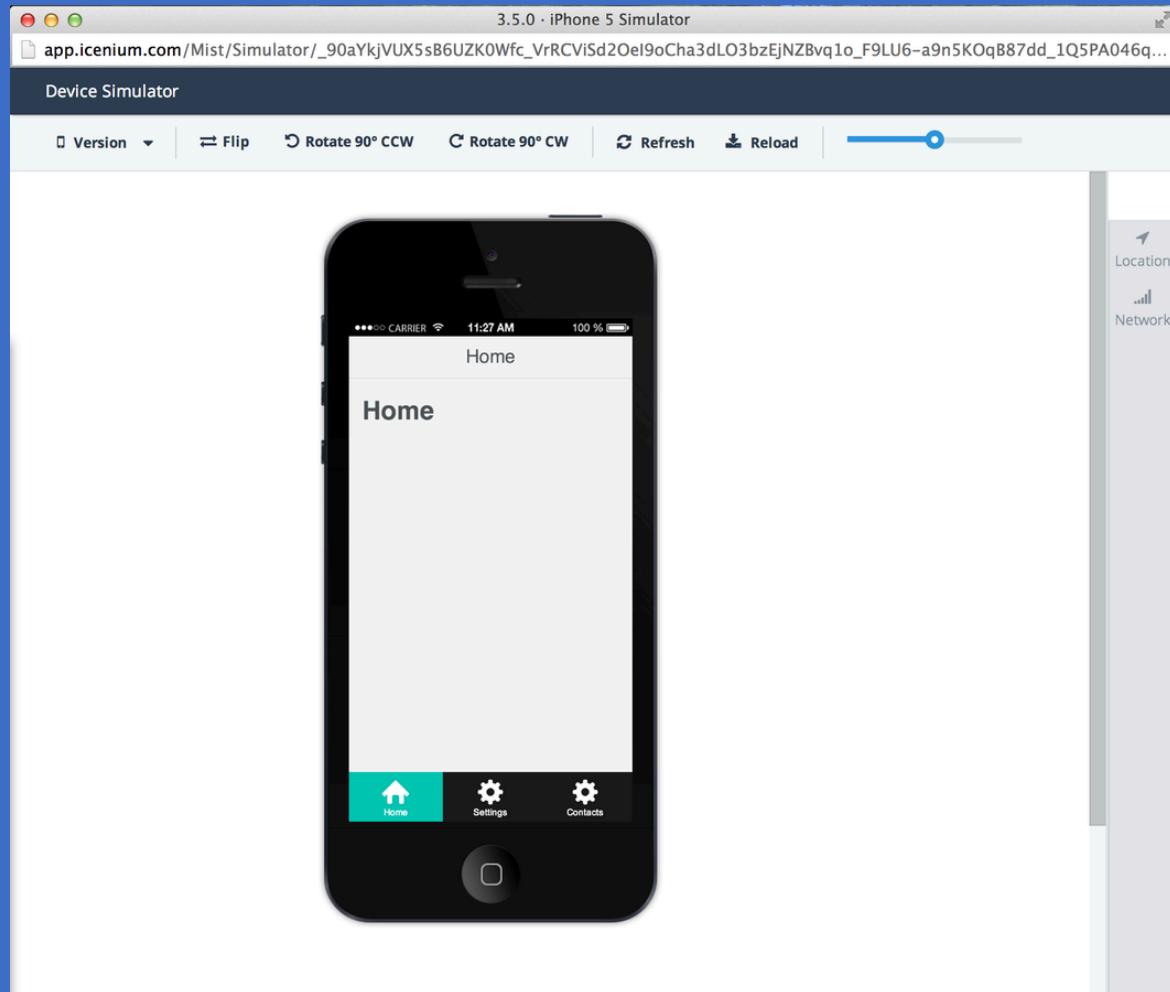
```
    <link href="kendo.min.css" rel="stylesheet" />
```

The menu is titled "Run" and lists several mobile device options:

- Build (Cmd + B)
- IOS SIMULATOR
- iPhone (Cmd + F6)
- iPhone 5 (Cmd + F10)
- iPad (Cmd + F8)
- ANDROID SIMULATOR
- Android Phone (Cmd + F7)
- Android Tablet (Cmd + F9)
- WINDOWS PHONE SIMULATOR
- Windows Phone (Cmd + F11)

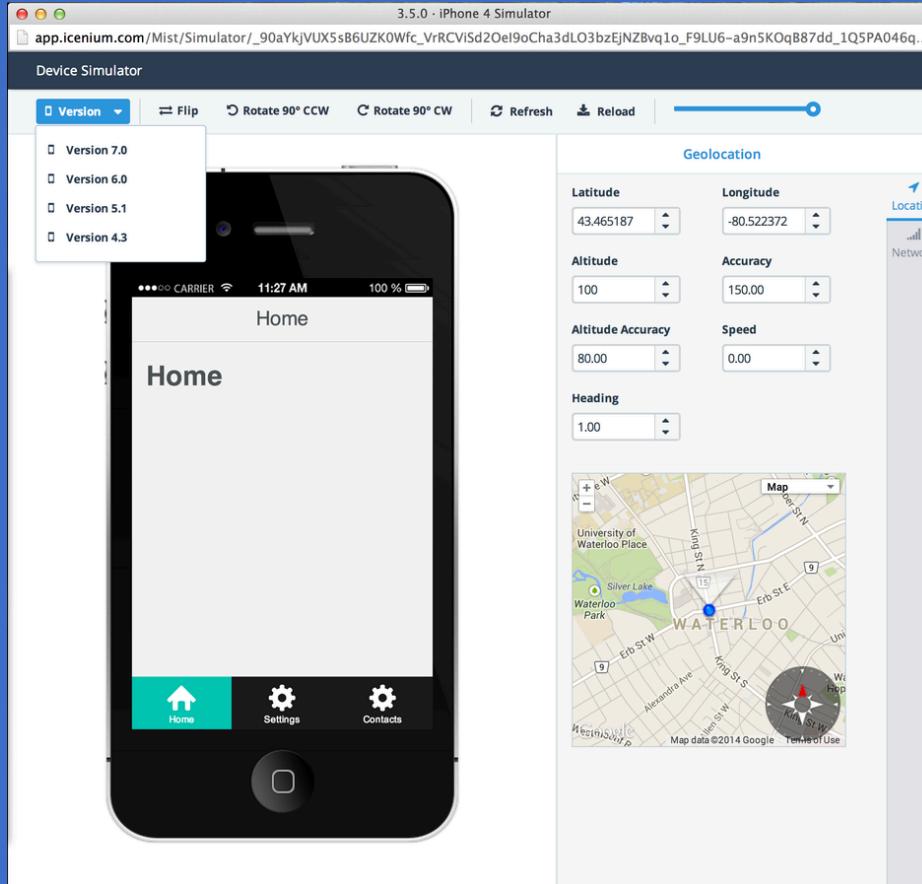
Boom .. iOS Simulator

In your Browser!



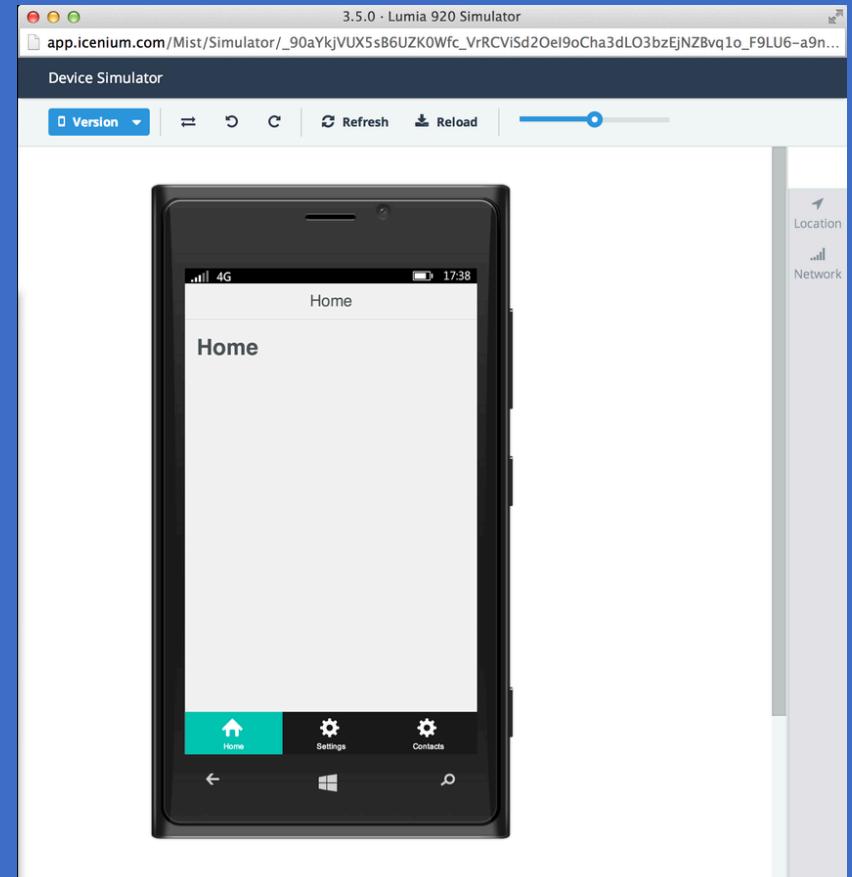
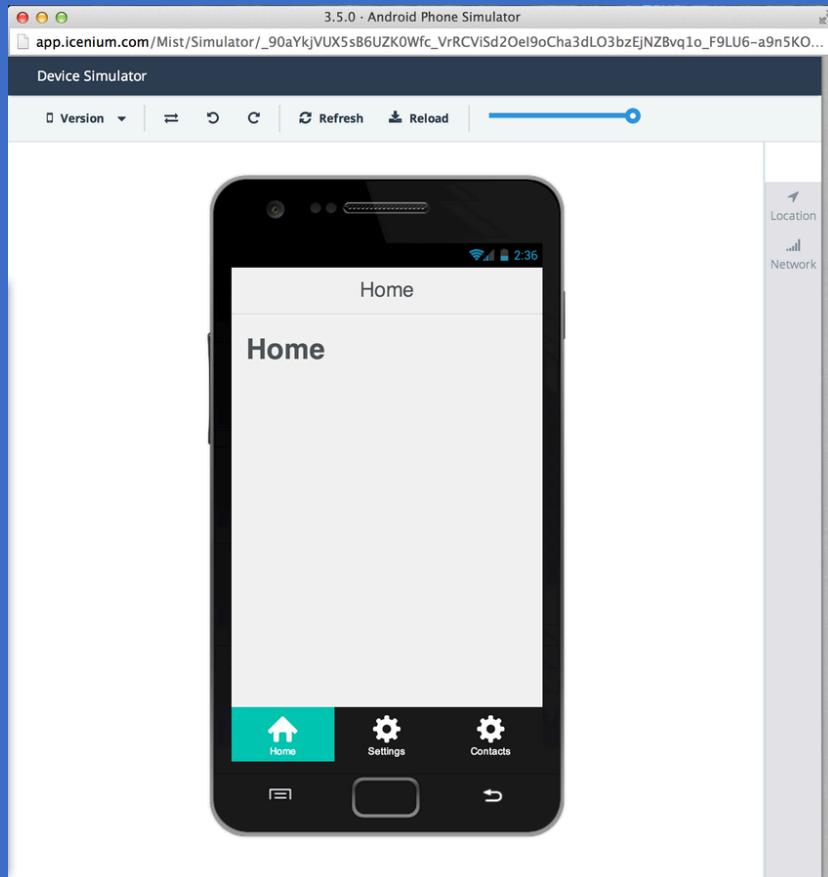
Simulator flexibility

You can switch up OS versions
And simulate GeoLocation & Network strength



Other platforms?

Sure, works the same in Android & Windows Phone



But simulators go only as far
I want the App running on a real device ..

Let's fire up a Build

Screenshot of the Telerik Platform AppBuilder interface showing the build process for a hybrid application.

The left pane displays the code editor for `index.html`, showing the HTML, CSS, and JavaScript code for the application.

The right pane shows the **Project Navigator** with the project structure:

- Solution 'MyHybridApp'
 - MyHybridApp
 - cordova.js
 - Plugins
 - Properties
 - App_Resources
 - kendo
 - scripts
 - styles
 - views
 - index.html

A modal window titled "Build" is open, prompting the user to "Select target platform". It lists three options:

- Android**: Build your project for testing on Android devices. (Icon: Android logo)
- iOS**: Build your project for testing on iOS devices. (Icon: iOS logo)
- Windows Phone**: Build your project for testing on Windows Phone devices. (Icon: Windows Phone logo)

To the right of the modal, there is a note: "Build for testing or limited distribution. To start, select a target mobile platform, configure LiveSync, and click Next." A blue arrow points from the note towards the "Next" button at the bottom right of the modal.

At the bottom of the modal, there is a "CONFIGURE LIVESYNC" button with a "ON" switch, and two buttons: "Cancel" and "Next".

The bottom of the screen shows the **Output** panel with the following log entries:

```
[2014-08-15 08:52:13.353] Emmet plug-in is off (Ctrl+E to turn it on)
[2014-08-15 08:52:14.826] Solution loading finished.
[2014-08-15 08:52:14.830] Logged as: samidip@live.com
```

Build artifacts

You can build App Packages for each platform

Or, build for the AppBuilder Companion App!

Pick what you need

Build

Select target platform

1

2

Android

Build your project for testing on Android devices.



iOS

Build your project for testing on iOS devices.

- AppBuilder companion app
- App package

Windows Phone

Build your project for testing on Windows Phone devices.



CONFIGURE LIVESYNC

ON

Cancel

Next



AppBuilder Companion App

Build your project for running inside the AppBuilder companion app.

The AppBuilder companion app is a testing utility that lets you run your project on devices without building, code signing, and installing an application package.

When you load your project in the companion app, the AppBuilder compiler service pushes it down to device and runs it inside the AppBuilder companion app. The companion app does not interfere with your app look and feel.

For more information, click [here](#).

AppBuilder Companion App

Think of it as a shell that runs your Hybrid app
Available in iOS, Android & Windows Phone Stores

Companion App benefits

Allows for provision-less app deployment
To real devices!

Did we mention ..
You don't need a Mac to build iOS apps!

Deployment

Simple .. just scan the QR Code

Works the same way in iOS, Android & Windows Phone!

Build

① Build completed → ②

Run on device
Scan the QR code or open the link in the device browser.

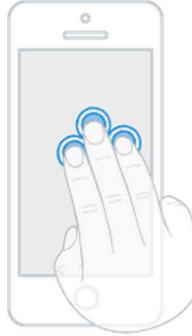
<icenium://https%3A%2F%2Fapp.icenium.com?Live...> 

AppBuilder Companion App
Verify that the AppBuilder companion app is installed. 

You can LiveSync changes to your app without rebuilding and rerunning it in the AppBuilder companion app.

Running on device

- ① Run your app in the AppBuilder companion app.
- ② To get the latest saved changes, tap and hold with three fingers until the download pop-up appears.
- ③ When the download completes, the app refreshes automatically.



Previous **Done**

LiveSync

Once deployed, no need for full Builds
Simply Save your changes in AppBuilder project

Works on simulators & real devices!

Oh, and see the Publish link on top?

The screenshot shows the Telerik Platform AppBuilder interface. At the top, there's a navigation bar with tabs for 'Code', 'Designer', and 'Split'. Below the navigation bar, the main area has a 'Project Navigator' on the right showing a project structure for 'MyHybridApp' with files like 'index.html', 'cordova.js', 'Plugins', 'Properties', etc. On the left, there's a code editor for 'index.html' and a preview area. A central modal window titled 'Publish' is open, showing a step-by-step process for selecting a target store:

1. Select target store
2. [Step 2]
3. [Step 3]
4. [Step 4]

The modal lists four options:

- Telerik AppManager**: Build your app for iOS or Android and publish it in your private app store. (Icon: AM)
- Google Play**: Build your Android app for publishing in Google Play. (Icon: Play Store)
- App Store**: Build your iOS app for publishing in App Store. (Icon: App Store)
- Windows Phone Store**: Build your Windows Phone app for publishing in Windows Phone Store. (Icon: Windows Phone)

Below the 'App Store' section, there's a note: "After the build completes, you need to upload the application package in iTunes Connect. You can use AppBuilder to complete this task or you can download the application package and upload it manually in iTunes Connect." A link "For more information, click here." is provided.

At the bottom of the modal, there are 'Cancel' and 'Next' buttons.

Pull the trigger

Publish to iOS, Android & Windows Phone Stores
Straight from inside of AppBuilder!

Off course, needs provisioning or certificates & so on ..

Few more AppBuilder features ..

Project Templates that help

>Create AppBuilder Hybrid Project

Develop, test, and publish cross-platform hybrid mobile apps using HTML, CSS, and JavaScript.

Choose project template
 Start from sample project
 Clone repository

AppBuilder Hybrid Sample Projects

Select a sample app to start development with a device functionality already implemented in your project.

Demo Applications **Core APIs** Advanced APIs Mobile Chrome Apps

Accelerometer
This application demonstrates the usage of core plugin for device accelerometer API.

Camera
This application demonstrates the usage of Cordova Camera core API.

Capture
This application demonstrates the usage of Capture Cordova core API.

Project name

Example: Instagram App

Description

Create project **Cancel**

Create AppBuilder Hybrid Project

Develop, test, and publish cross-platform hybrid mobile apps using HTML, CSS, and JavaScript.

Choose project template
 Start from sample project
 Clone repository

AppBuilder Hybrid Sample Projects

Select a sample app to start development with a device functionality already implemented in your project.

Demo Applications Core APIs Advanced APIs Mobile Chrome Apps

Airlines
This demo app is for the fictitious Airlines Company. The app lets the user view trips, check in for a flight and change seat selection.

JiterzCoffeehouse
Demo application similar to Starbucks Mobile app

Translator
The Translator demo application allows you to translate text from and to a wide selection of languages.

Project name

Example: Instagram App

Description

Create project **Cancel**

Plug & Play

Package Managers .. out of the box!

Manage Packages

Kendo UI **Bower**

Search

NAME	OWNER	STARS	UPDATED
twitter	twbs	70789	8/13/2014
bootstrap	twbs	70787	8/13/2014
jq	jquery	31472	7/28/2014
jquery	jquery	31472	7/28/2014
myjquery	jquery	31472	7/28/2014
jQuery	jquery	31472	7/28/2014
jquery-1.11.1	jquery	31472	7/28/2014

Select Package

Upgrade or downgrade the framework files used in your project. Select the package that you want to use and click Change.

Breaking changes might exist between framework versions. Always make sure to inspect the release notes of a framework version and modify your code to address breaking changes.

Project Navigator

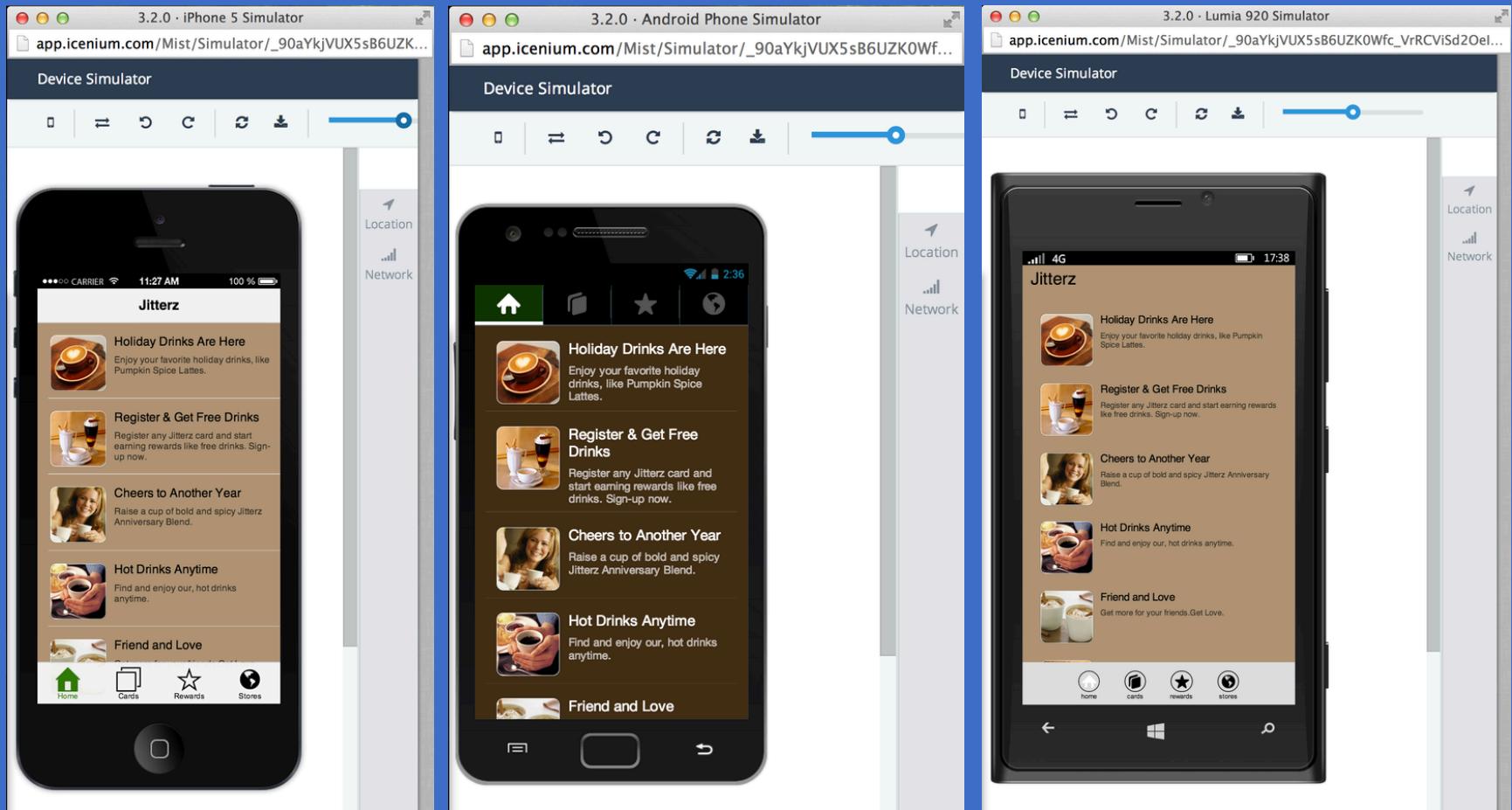
Solution 'MyHybridApp'
MyHybridApp
cordova
Plugins
Properties
App_Resources
kendo
scripts
styles
views
index.html

Version Control
Add
Edit Configuration
Paste
Rename
Export
Publish
Properties
Manage Packages

Close

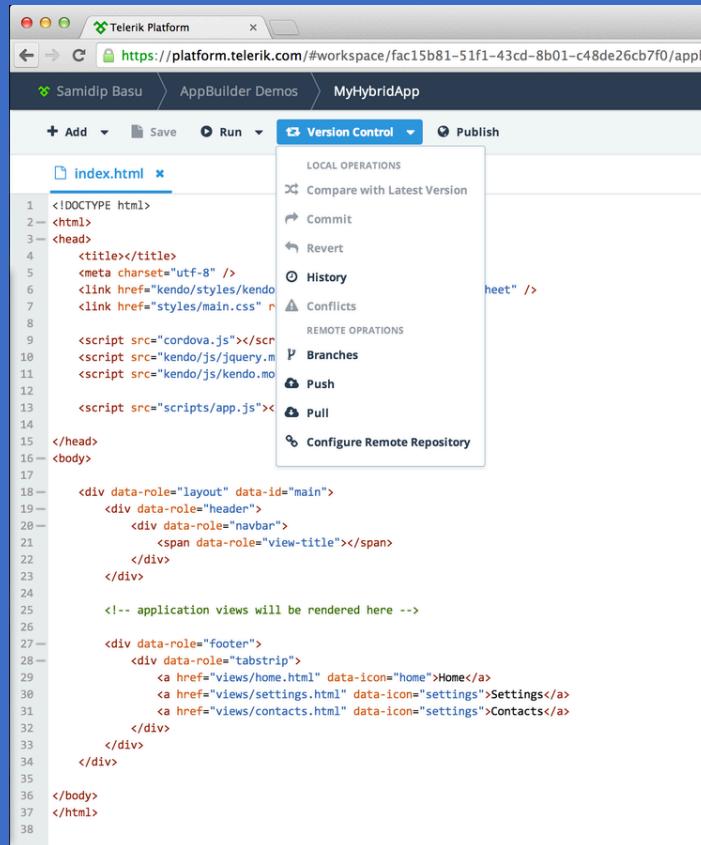
Adaptive Rendering

Thanks to Open-Source Kendo UI Mobile framework ..



Collaborate

Hook up your AppBuilder project to a Repo
Work in teams .. always stay in sync!



The screenshot shows the Telerik Platform AppBuilder interface. The left side features a code editor with the file 'index.html' open, displaying its HTML content. The right side has a 'Version Control' dropdown menu open, showing options for local and remote operations like Commit, Revert, History, Branches, Push, Pull, and Configure Remote Repository.

```
<!DOCTYPE html>
<html>
<head>
    <title></title>
    <meta charset="utf-8" />
    <link href="kendo/styles/kendo.css" rel="stylesheet" />
    <link href="styles/main.css" rel="stylesheet" />
    <script src="cordova.js"></script>
    <script src="kendo/js/jquery.min.js"></script>
    <script src="kendo/js/kendo.mobile.min.js"></script>
    <script src="scripts/app.js"></script>
</head>
<body>
    <div data-role="layout" data-id="main">
        <div data-role="header">
            <div data-role="navbar">
                <span data-role="view-title"></span>
            </div>
        </div>
        <!-- application views will be rendered here -->
        <div data-role="footer">
            <div data-role="tabstrip">
                <a href="views/home.html" data-icon="home">Home</a>
                <a href="views/settings.html" data-icon="settings">Settings</a>
                <a href="views/contacts.html" data-icon="settings">Contacts</a>
            </div>
        </div>
    </div>
</body>
</html>
```

Plugins to Native APIs

Use Telerik verified Cordova Plugins ..

The screenshot shows the homepage of the Verified Plugins Marketplace at plugins.telerik.com. The page has a dark blue header with the Telerik logo and navigation links for PRODUCTS, ENTERPRISE, FREE TRIALS, PRICING, SUPPORT & LEARNING, and COMPANY. A search bar is located in the top right. The main title "Verified Plugins Marketplace" is prominently displayed in white. 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 large search bar with the placeholder "Search plugins" and an orange "Search" button is centered. To the right is a graphic of a smartphone surrounded by blue geometric shapes and small icons. The main content area is titled "All Plugins" and shows three plugin entries: "AdMob" by Raymond Xie, "AYLIEN Text Analysis API" by AYLIEN, and "BackgroundAudio" by Eddy Verbruggen. Each entry includes a brief description, download counts (86, 40, 75 respectively), and download links. On the right side, there are filters for "All Plugins", "By Platform" (Android, iOS, Windows Phone 8), "By Owner" (Telerik), "Subscribe for updates" (RSS Feed), and "Share this page" (links to Facebook, Twitter, LinkedIn, and Google+).

All Plugins

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

AdMob iOS | Android | 86 Downloads
by Raymond Xie
The AdMob plugin offers an easy way to show Google AdMob banners in your app. You can choose from various banner sizes and positions. Support for fullscreen banners will be added in a future release.

AYLIEN Text Analysis API iOS | 40 Downloads
by AYLIEN
The Text Analysis API plugin by AYLIEN extracts structured information and insights from text. It performs Summarization and Hashtag Suggestion for any piece of text.

BackgroundAudio iOS | 75 Downloads
by Eddy Verbruggen
The BackgroundAudio plugin allows your app to keep on playing audio when it's in the background.

Filter Plugins

All Plugins (selected)

By Platform

Android | iOS | Windows Phone 8

By Owner

Telerik

Subscribe for updates

RSS Feed

Share this page

Facebook Share (3) | Twitter Tweet (36) | LinkedIn Share (4) | Google+ Share (13)

Search & Pull in Plugins

From right inside your project ..

Manage Packages

Kendo UI Bower **Plugins Marketplace**

iOS Android WP8

NAME	VERSION	DOWNLOADS
ActionSheet	1.1.1	247
AdMob	1.1	376
Amazon Web Services (AWS)	1.0.2	249
AppVersion	0.1.4	159
AYLIEN Text Analysis API	0.1.0	214
BackgroundAudio	1.0.0	230
BarcodeScanner	1.2.8	384
Calendar	4.2.8	532
Couchbase Lite	0.3.0	143

Select Plugin

Manage the custom Apache Cordova plugins used in your project. To start, select a plugin from the list.

The Telerik Verified Plugins Marketplace provides a curated list of Apache Cordova custom plugins that have been thoroughly tested, documented, and extended to empower cross-platform hybrid mobile developers.

Note: Installed plugins are not listed under the Plugins directory in your project. To manage installed plugins, use the Manage Packages wizard.

Close

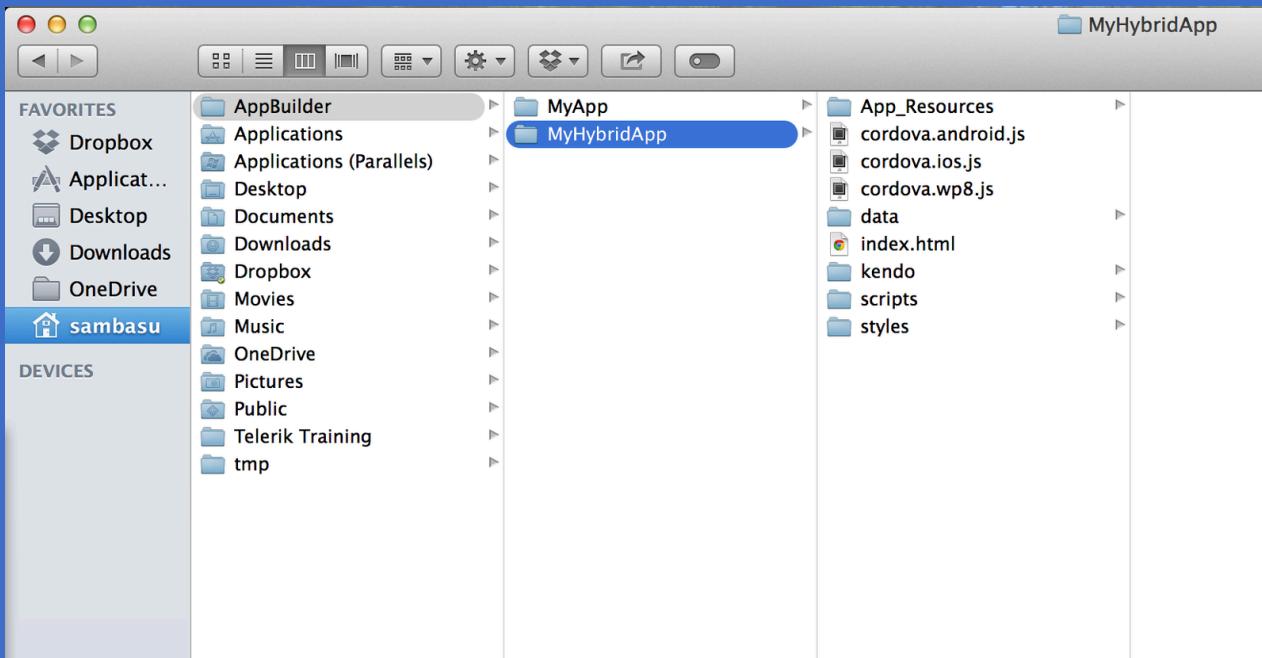
One more thing ..

You can do all this from
AppBuilder Command Line Interface!

Works on both OSX & Windows

Install & Create

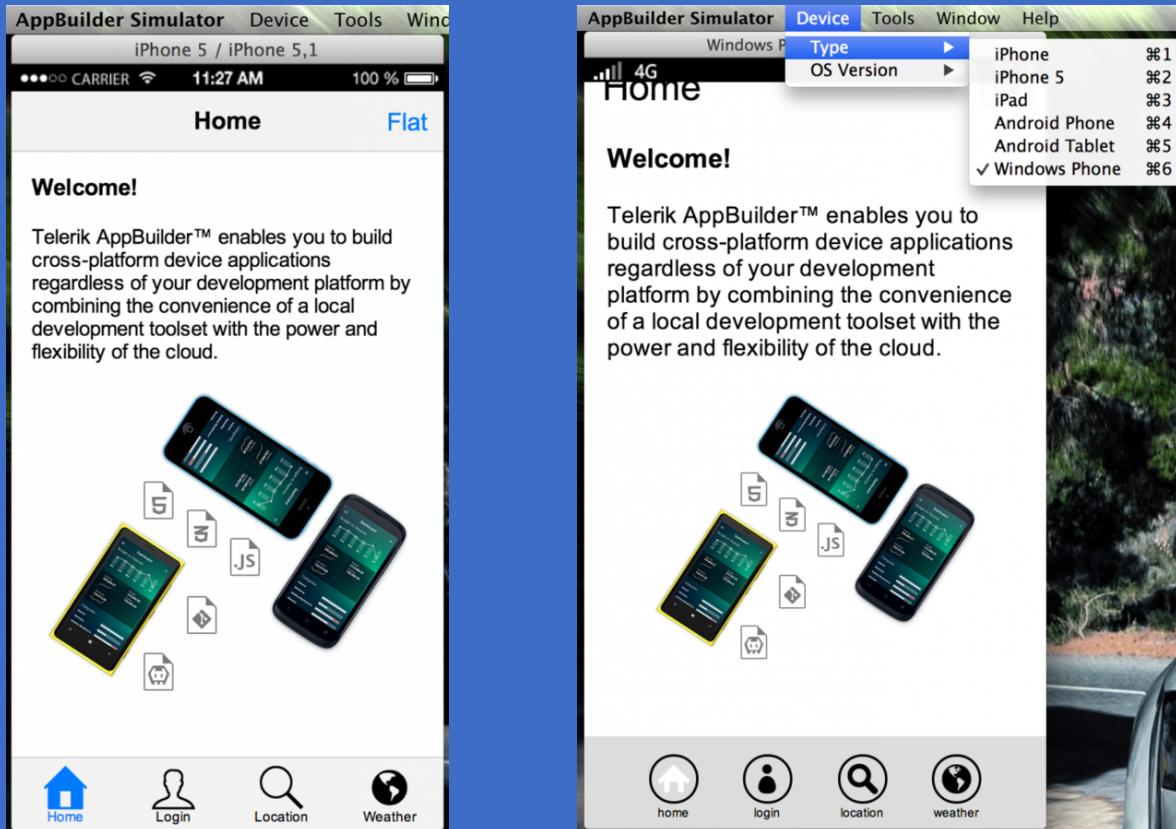
```
$ sudo npm install -g appbuilder  
$ appbuilder create hybrid MyHybridApp
```



Same Project structures .. All Templates supported!

Simulate

```
$ appbuilder simulate
```



Native simulators for iOS, Android & Windows Phone

Build

```
$ appbuilder build ios --companion  
$ appbuilder build android --companion  
$ appbuilder build wp8 --companion
```

Companion or Native App Packages
QR Code Deployment!

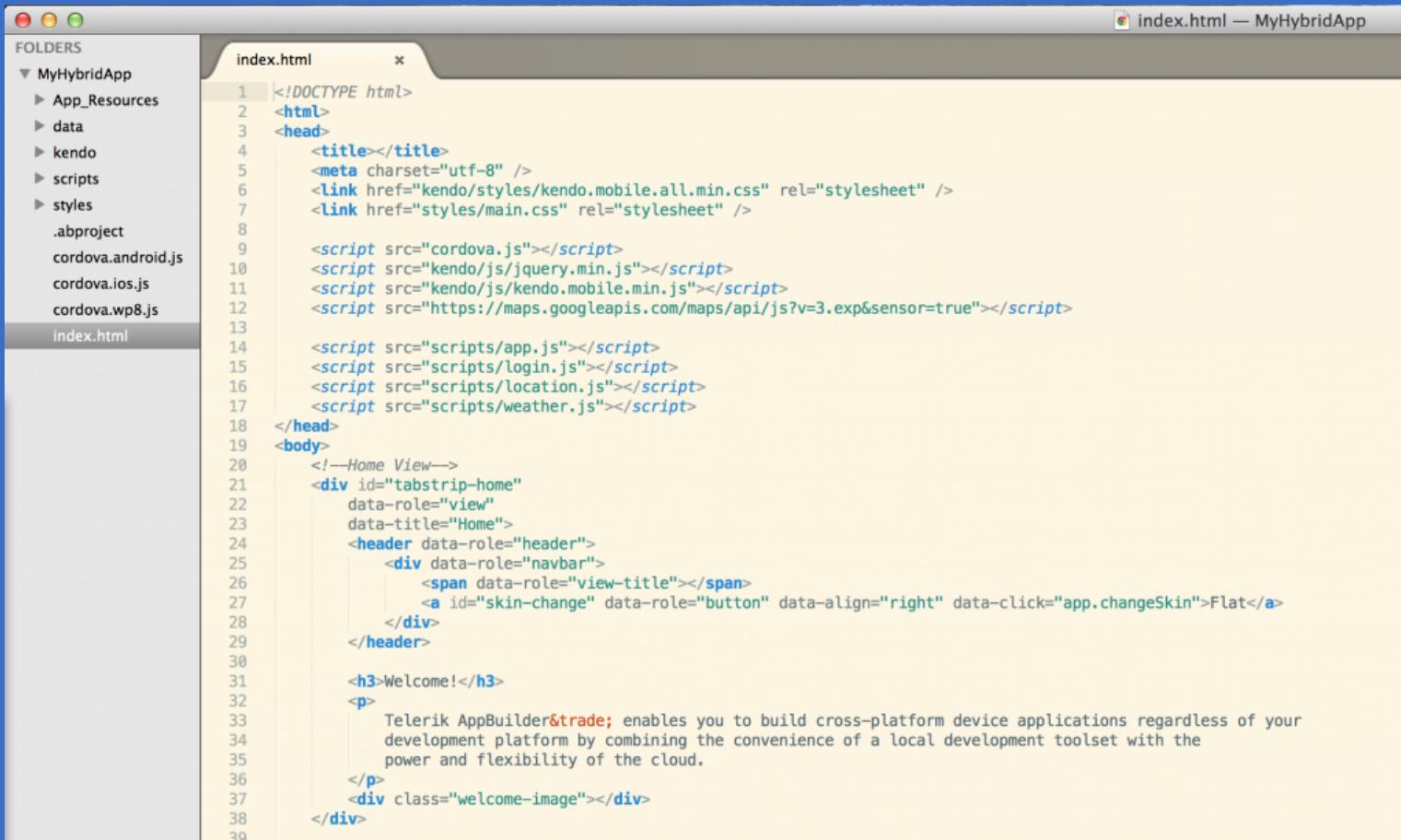
And, one more thing ..

We love Sublime Text as much as do!

Stay in Sublime

All day long ..

With the AppBuilder Package for Sublime!

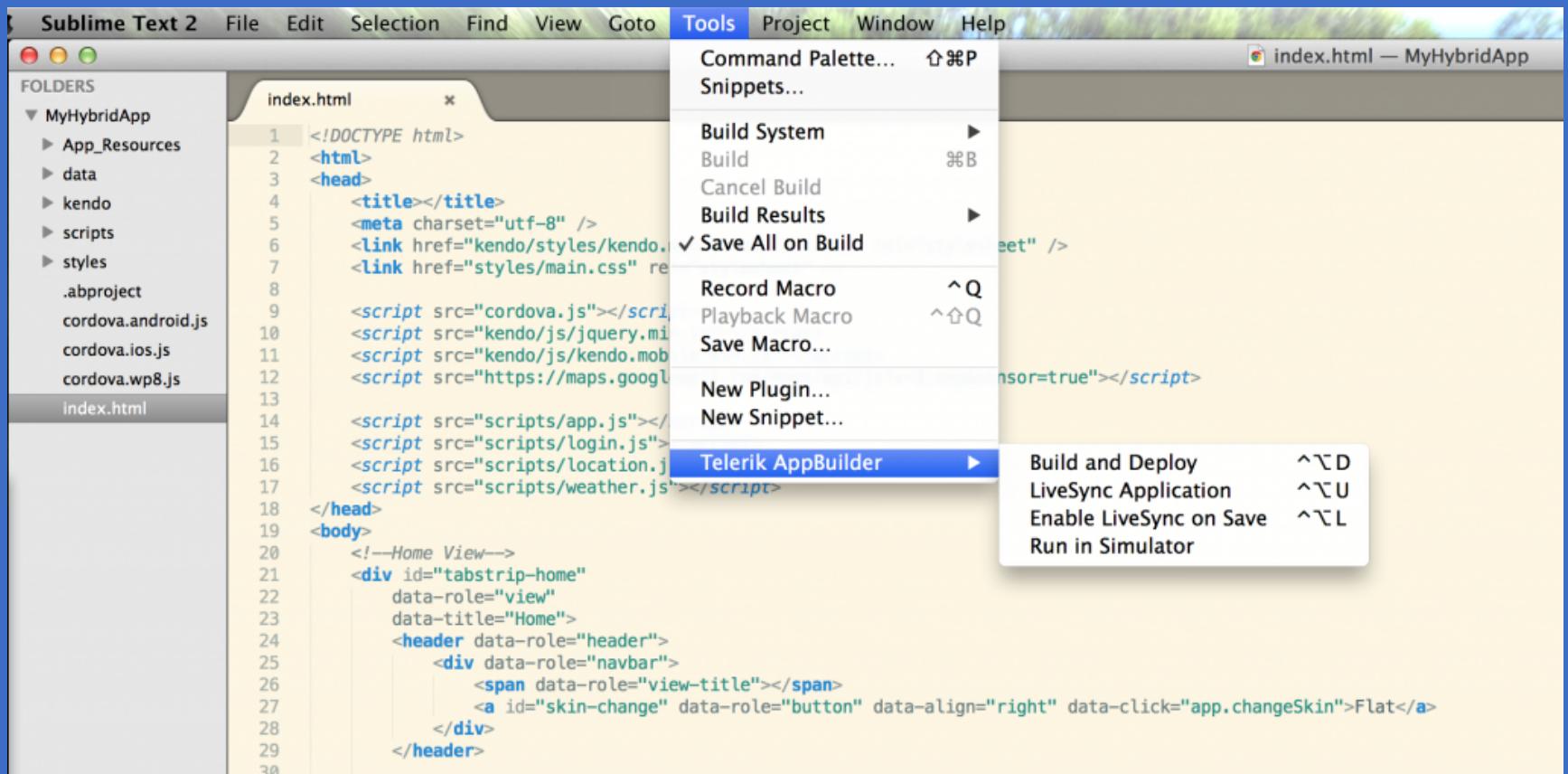


The screenshot shows the Sublime Text interface with the following details:

- Folders:** MyHybridApp (expanded), App_Resources, data, kendo, scripts, styles, .abproject, cordova.android.js, cordova.ios.js, cordova.wp8.js, index.html.
- File:** index.html — MyHybridApp
- Content:** The code for index.html is displayed, showing the structure of a hybrid mobile application using Kendo UI and Cordova. It includes imports for CSS files (main.css, kendo.mobile.all.min.css), JavaScript files (cordova.js, jquery.min.js, kendo.mobile.min.js, app.js, login.js, location.js, weather.js), and a script for Google Maps. The body contains a tabstrip-home view with a header and a welcome message.
- Code Snippet:**

```
1  <!DOCTYPE html>
2  <html>
3      <head>
4          <title></title>
5          <meta charset="utf-8" />
6          <link href="kendo/styles/kendo.mobile.all.min.css" rel="stylesheet" />
7          <link href="styles/main.css" rel="stylesheet" />
8
9          <script src="cordova.js"></script>
10         <script src="kendo/js/jquery.min.js"></script>
11         <script src="kendo/js/kendo.mobile.min.js"></script>
12         <script src="https://maps.googleapis.com/maps/api/js?v=3.exp&sensor=true"></script>
13
14         <script src="scripts/app.js"></script>
15         <script src="scripts/login.js"></script>
16         <script src="scripts/location.js"></script>
17         <script src="scripts/weather.js"></script>
18
19     </head>
20     <body>
21         <!--Home View-->
22         <div id="tabstrip-home"
23             data-role="view"
24             data-title="Home">
25             <header data-role="header">
26                 <div data-role="navbar">
27                     <span data-role="view-title"></span>
28                     <a id="skin-change" data-role="button" data-align="right" data-click="app.changeSkin">Flat</a>
29             </div>
30         </header>
31
32         <h3>Welcome!</h3>
33         <p>
34             Telerik AppBuilder® enables you to build cross-platform device applications regardless of your
35             development platform by combining the convenience of a local development toolset with the
36             power and flexibility of the cloud.
37         </p>
38         <div class="welcome-image"></div>
39     </div>
```

Build & Deploy



One last thing ..

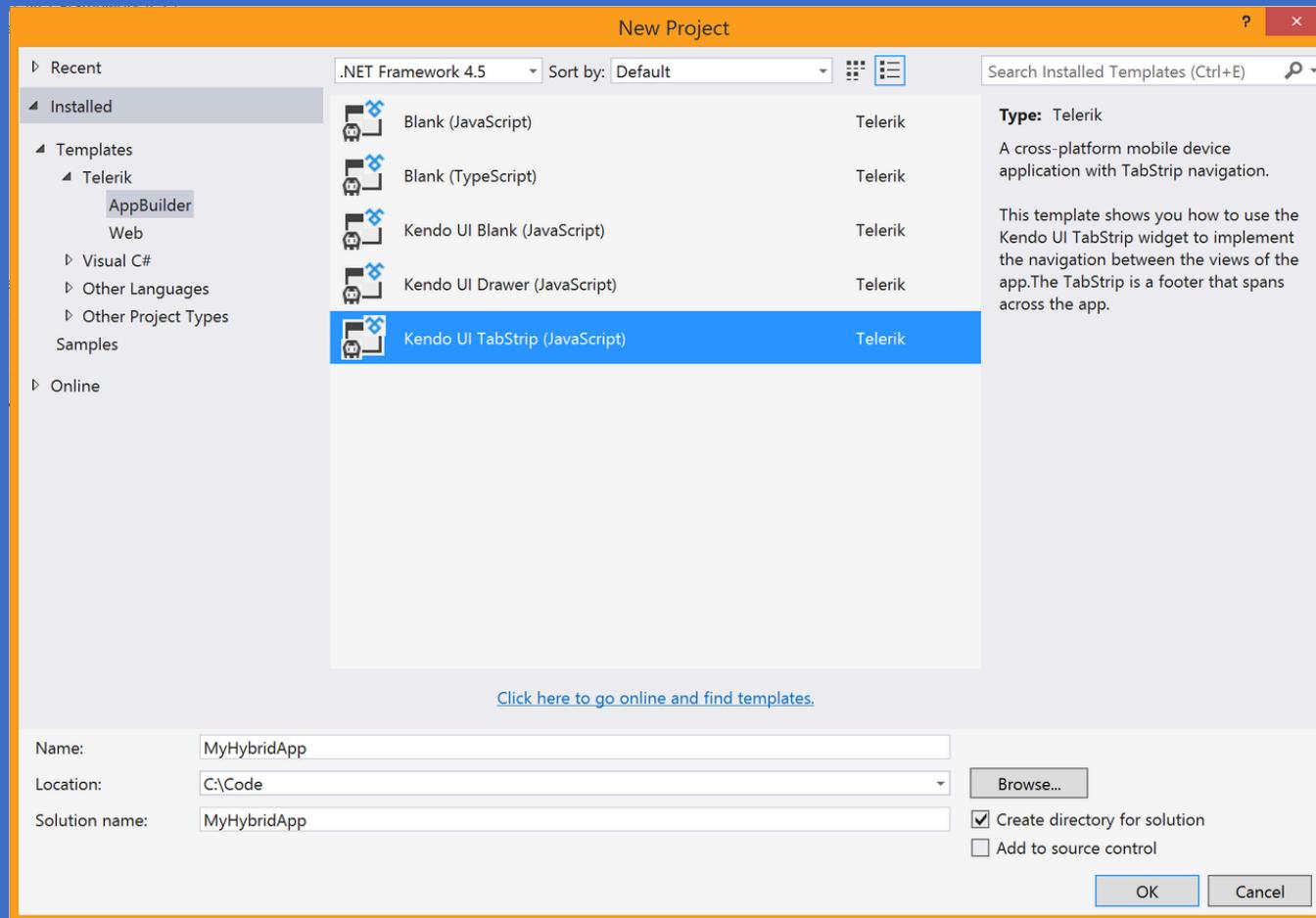
You know that IDE that developers LOVE?

Yup, Visual Studio

Yeah, you can do everything in Visual Studio!

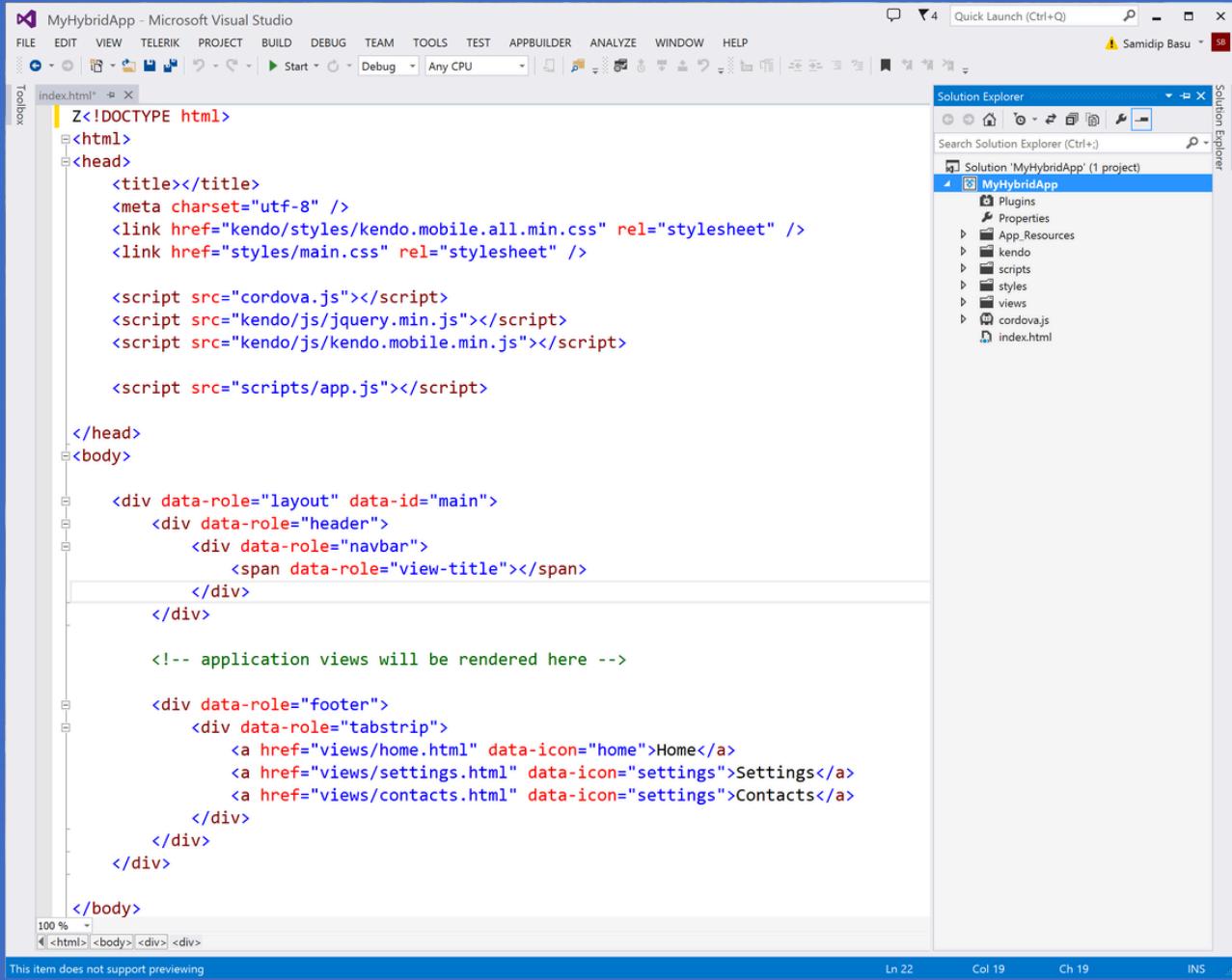
AppBuilder VS Extension

Same project templates ..



Build X-Plat Mobile apps

Never having to leave Visual Studio!



The screenshot shows the Microsoft Visual Studio interface with a hybrid mobile application project named "MyHybridApp".

Solution Explorer: Shows the project structure with a single project named "MyHybridApp" containing files like Plugins, Properties, App.Resources, kendo, scripts, styles, views, cordova.js, and index.html.

Code Editor: The "index.html" file is open, displaying Kendo UI mobile markup. The code includes references to "cordova.js", "jquery.min.js", and "kendo/mobile.min.js", along with Kendo UI mobile specific elements like "data-role" and "data-icon".

```
<!DOCTYPE html>
<html>
  <head>
    <title></title>
    <meta charset="utf-8" />
    <link href="kendo/styles/kendo.mobile.all.min.css" rel="stylesheet" />
    <link href="styles/main.css" rel="stylesheet" />

    <script src="cordova.js"></script>
    <script src="kendo/js/jquery.min.js"></script>
    <script src="kendo/js/kendo.mobile.min.js"></script>

    <script src="scripts/app.js"></script>

  </head>
  <body>

    <div data-role="layout" data-id="main">
      <div data-role="header">
        <div data-role="navbar">
          <span data-role="view-title"></span>
        </div>
      </div>

      <!-- application views will be rendered here -->

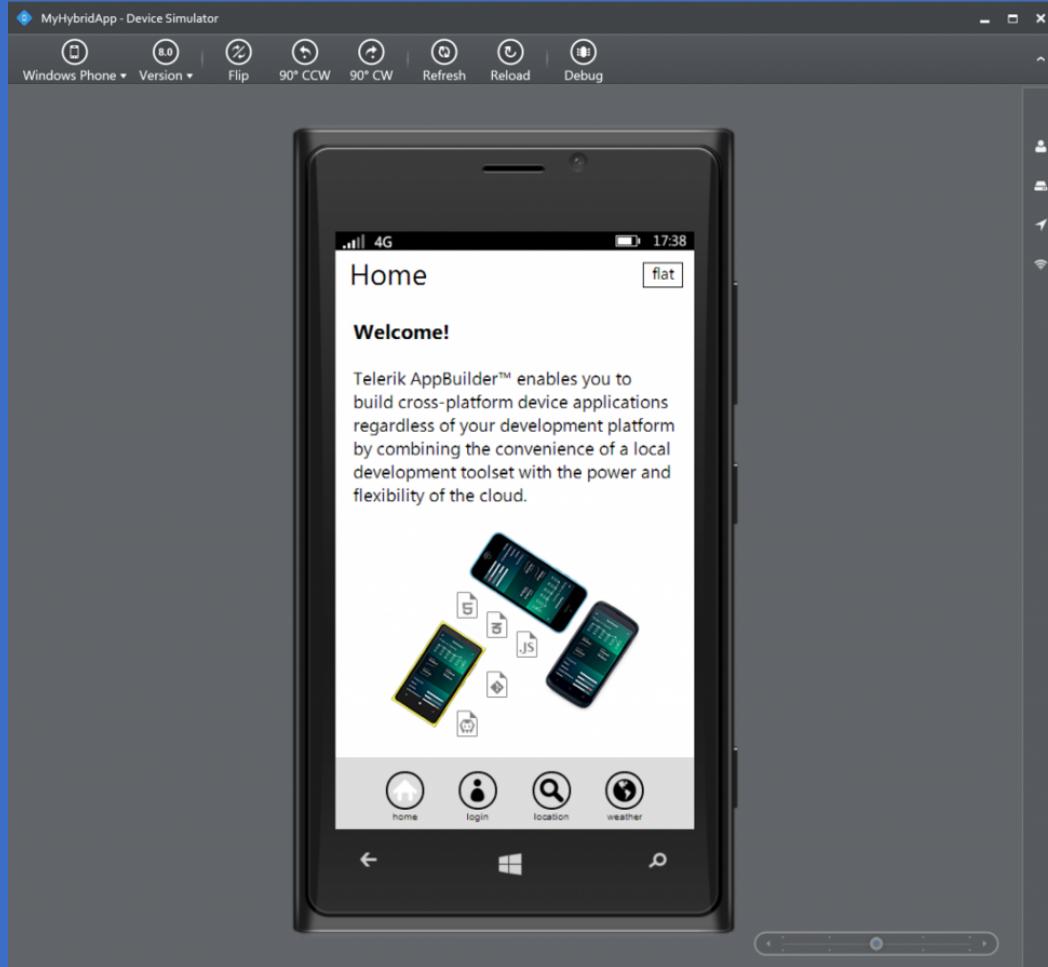
      <div data-role="footer">
        <div data-role="tabstrip">
          <a href="views/home.html" data-icon="home">Home</a>
          <a href="views/settings.html" data-icon="settings">Settings</a>
          <a href="views/contacts.html" data-icon="settings">Contacts</a>
        </div>
      </div>
    </div>
  </body>

```

Status Bar: Shows the current line (Ln 22), column (Col 19), character (Ch 19), and mode (INS).

Message Bar: Displays the message "This item does not support previewing".

Just hit F5 to run your app



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Develop cross-platform mobile apps on the go with a web client that runs in all modern browsers.

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Add a set of commands to build, deploy and LiveSync changes from Sublime Text to your connected devices.

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