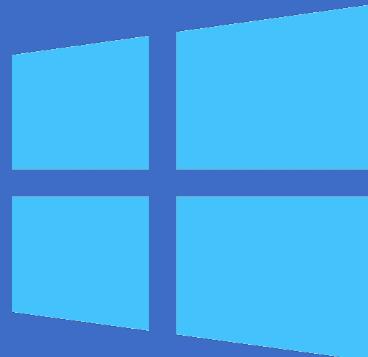


Telerik AppBuilder

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 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

 **Telerik** AppBuilder

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

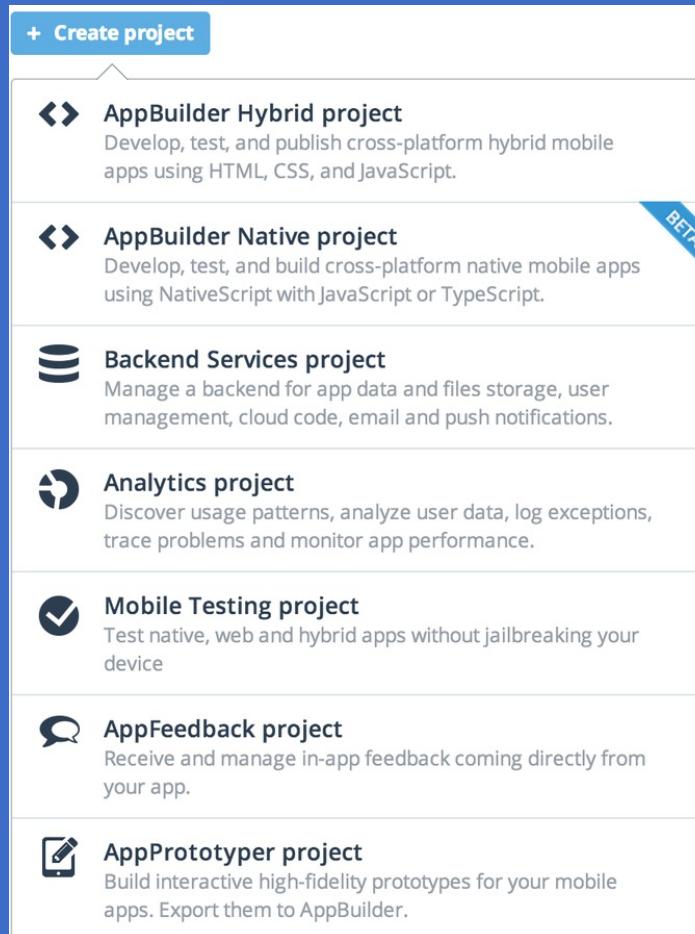
Create a new one!

The screenshot shows the Telerik Platform Workspaces interface. At the top, there's a header with the URL <https://platform.telerik.com/#workspaces>. On the left, under 'Workspaces', there are two items: 'Friends App' and 'AppBuilder Demos'. 'Friends App' is marked as a 'SAMPLE' and contains a brief description, 6 projects, 1 member, and a user icon. 'AppBuilder Demos' contains 6 projects, 1 member, and a user icon. To the right, there's an 'AppManager' sidebar with a 'SAMPLE' badge, an 'Open AppManager' button, a diagram showing a mobile device connected to a computer, and a descriptive text: 'Securely distribute mobile apps to testers and end users without leaving the Telerik Platform.' The top right corner shows account information for 'Samidip Basu'.

Start

Once you have a WorkSpace, create a Project

Pick AppBuilder Hybrid



Next up, choose a template

And name your app!

The screenshot shows a web browser window for the Telerik Platform at <https://platform.telerik.com/#workspace/fac15b81-51f1-43cd-8b01-c48de26cb7f0/create-project/appbuilder-hybrid>. The user is on the 'Create project' page, specifically the 'Create AppBuilder Hybrid Project' section. The top navigation bar includes links for 'Downloads', 'Documentation', and a user profile for 'Samidip Basu'. The main content area has a heading 'Create AppBuilder Hybrid Project' and a sub-instruction 'Develop, test, and publish cross-platform hybrid mobile apps using HTML, CSS, and JavaScript.' Below this, there are three radio button options: 'Choose project template' (selected), 'Start from sample project', and 'Clone repository'. A callout box labeled 'AppBuilder Hybrid Project Templates' provides a description: 'Select a project template to start your mobile app development.' A list of templates is displayed in a grid:

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' (an empty text area).

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, and Widgets. Examples include View, SplitView, ModalView, Drawer, Layout, ActionSheet, PopOver, Header, Footer, Back Button, Button / Tab, ButtonGroup, Detail Button, NavBar, ScrollView, ScrollPage, Switch, TabStrip, View Title, and Button / Tab.

Designer: In the center, there's a visual designer area showing a blank white canvas. Above the canvas, there are device selection dropdowns for Tablet, iOS (7.0), and Landscape orientation.

Code Editor: To the right of the designer, the code editor displays the HTML, CSS, and JavaScript files for the application. The main file shown is index.html, which includes boilerplate Kendo Mobile and Cordova code.

```
<!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 side, the Project Navigator pane shows the project structure. It includes a Solution node for "MyHybridApp" containing sub-folders like MyHybridApp, cordova.js, Plugins, Properties, App_Resources, kendo, scripts, styles, views, and index.html.

Output: At the bottom, the Output pane displays log messages from the build process.

```
[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

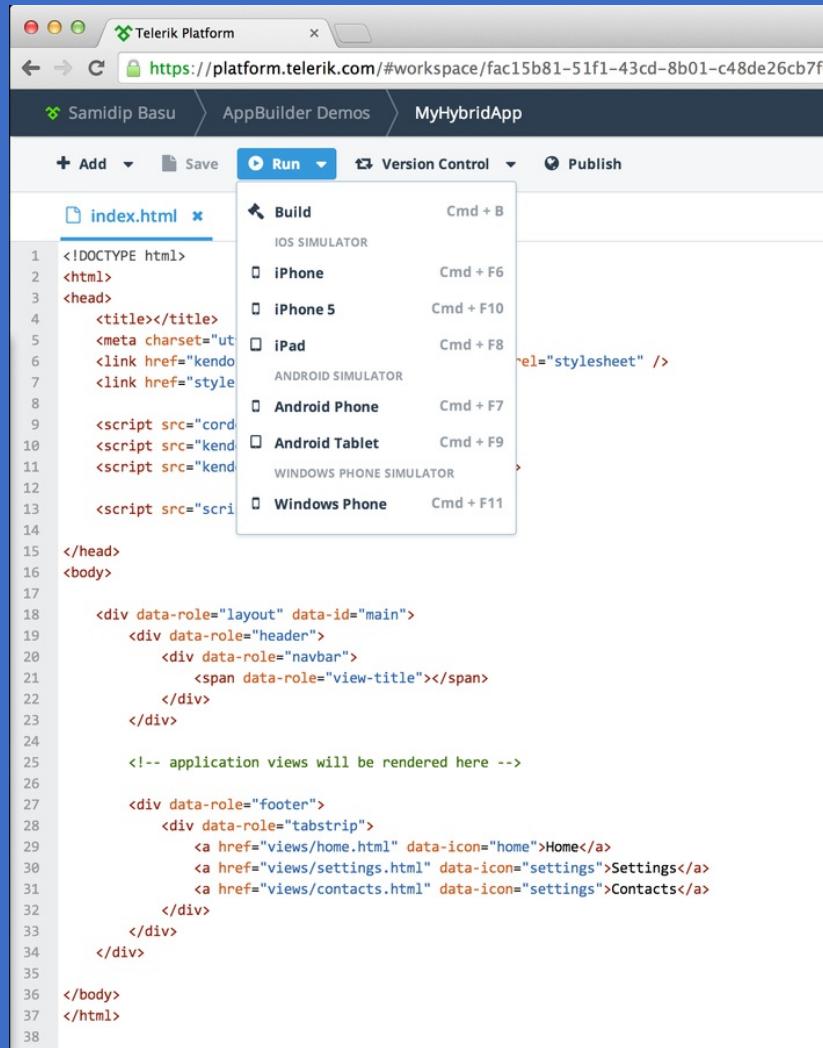
- Solution Explorer
- Device-specific WYSIWIG panel
- Markup/JS Editor with syntax highlighting
- File Manager & OutPut window
- Build/Deploy/Publish options

Seeing is believing

Project looks good

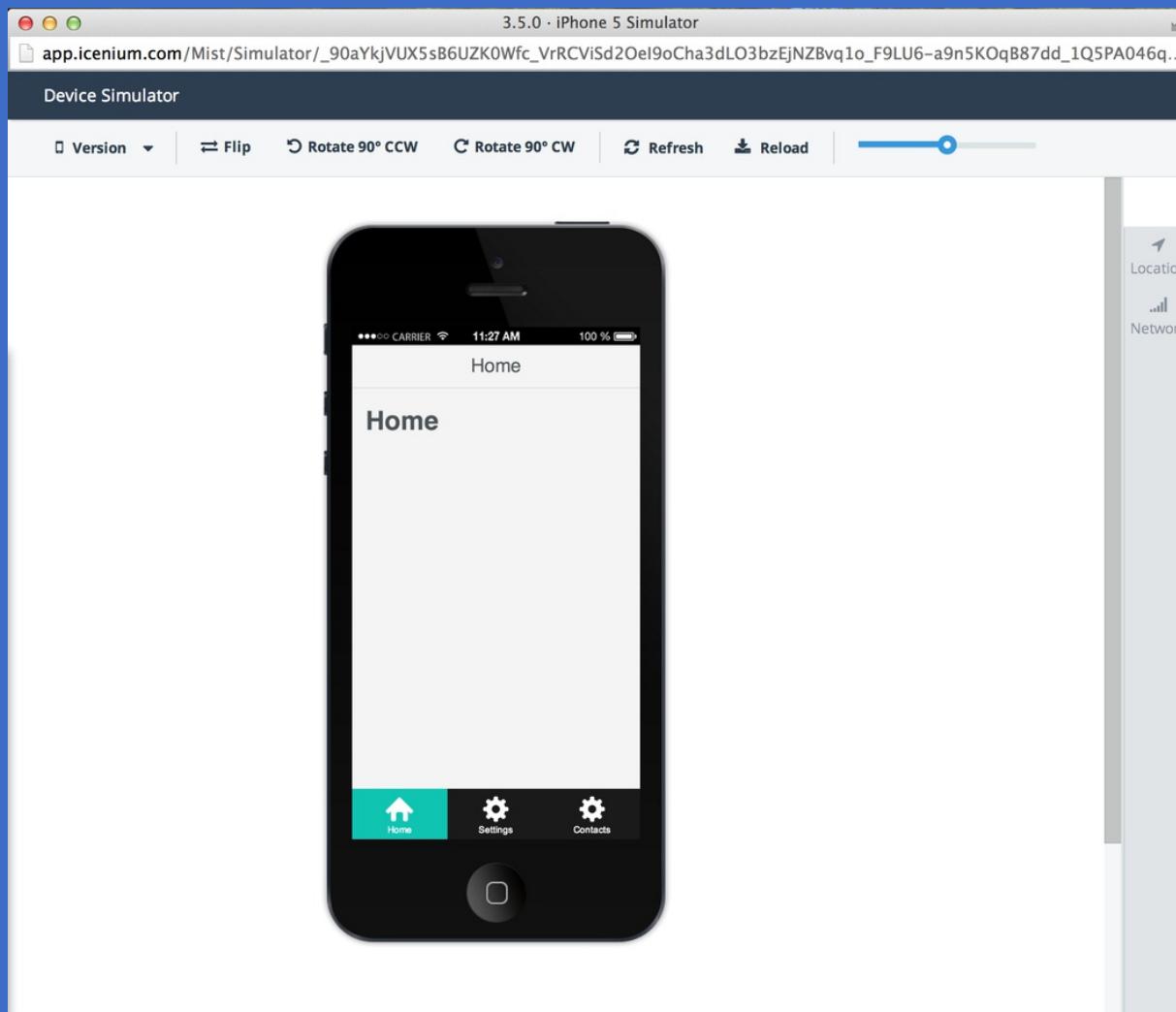
But, where can we run our App?

Just pick your platform And fire away!



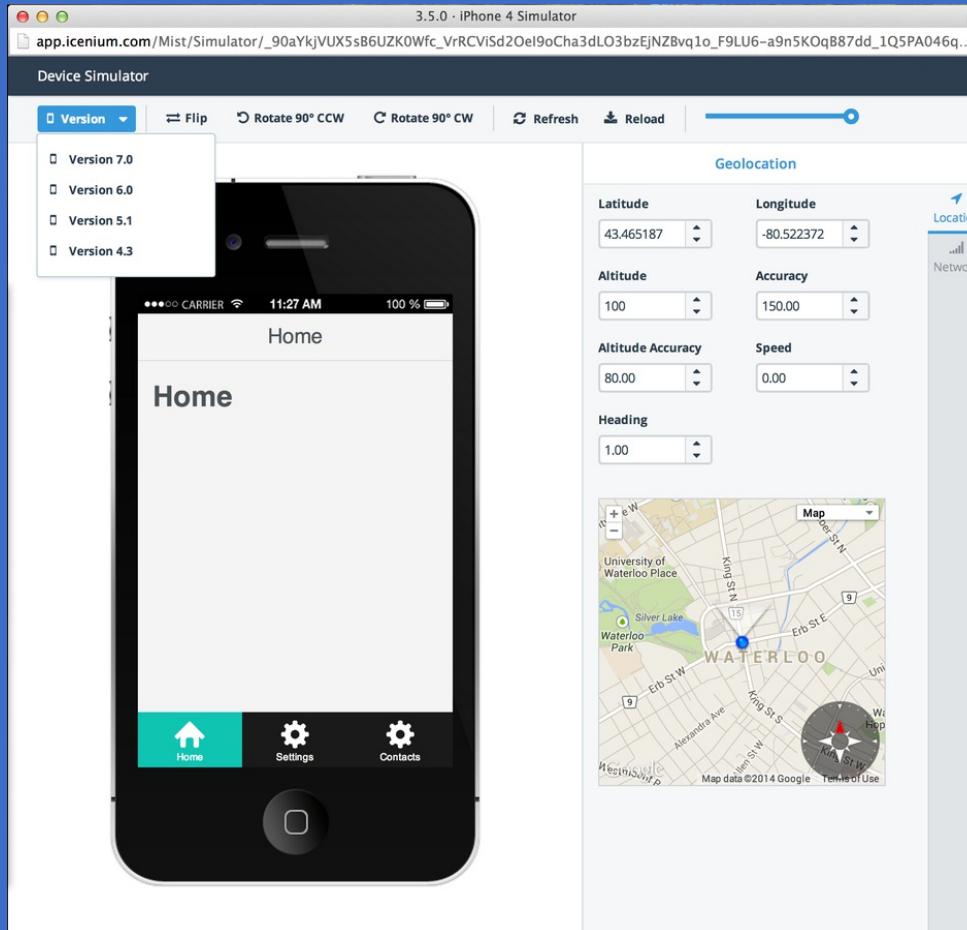
Boom .. iOS Simulator

In your Browser!



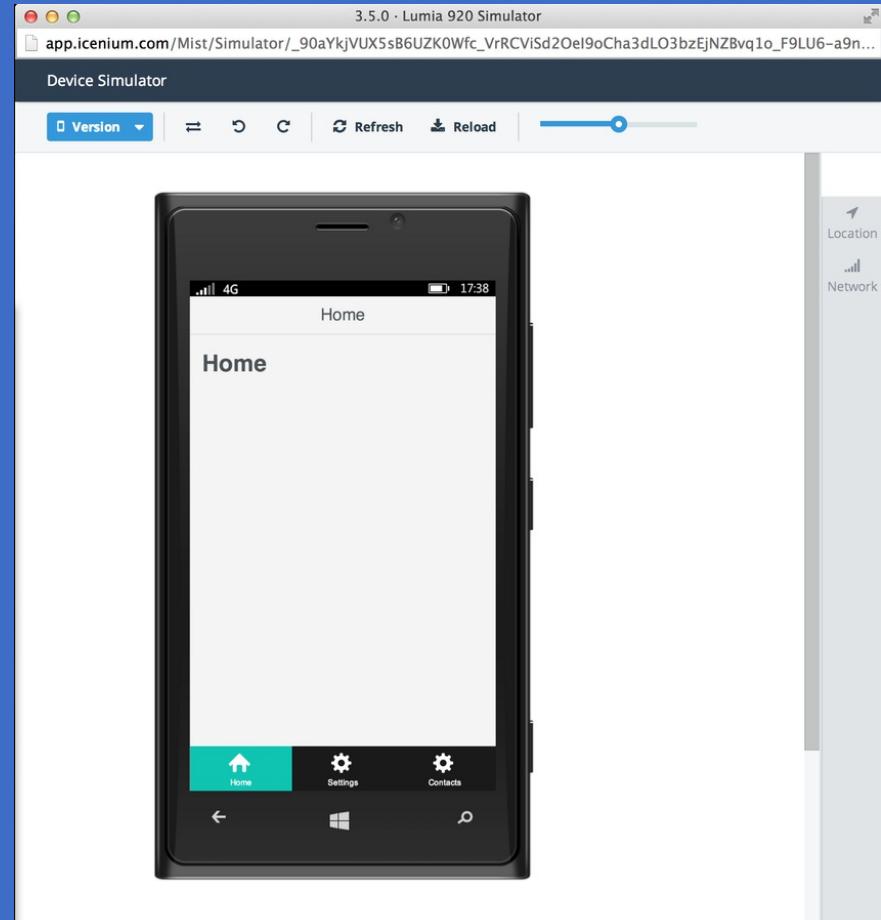
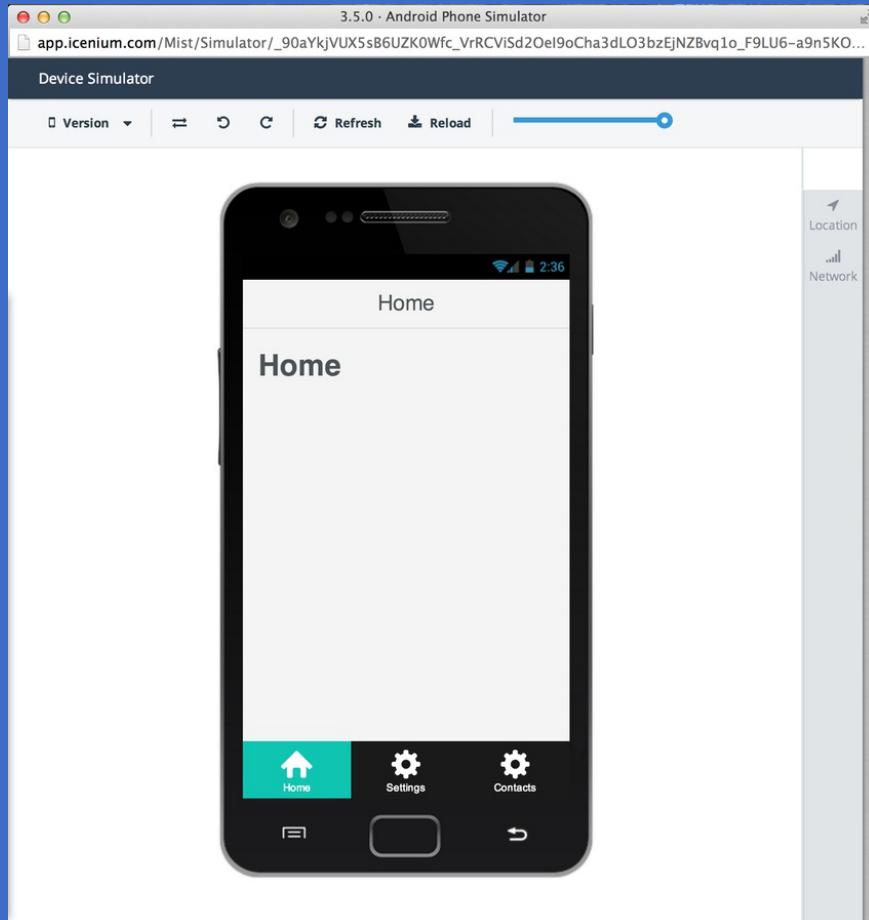
Simulator flexibility

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 Demos interface showing the build process for a hybrid app.

The left pane displays the code editor for `index.html`, containing the following HTML and JavaScript:

```
<!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="setting">Settings</a>
<a href="views/contacts.html" data-icon="setting">Contacts</a>
</div>
</div>
</div>
</body>
</html>
```

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 dialog titled "Build" is open, prompting to "Select target platform". It lists three options:

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

Below the platforms is a "CONFIGURE LIVESYNC" button with a "ON" switch. At the bottom of the modal are "Cancel" and "Next" buttons.

The bottom status bar shows the output log:

```
[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



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](#).

Next

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 Demos interface. At the top, there is a navigation bar with links for 'Samidip Basu', 'AppBuilder Demos', and 'MyHybridApp'. Below the navigation bar, there are buttons for 'Add', 'Save', 'Run', 'Version Control', and 'Publish'. The main area displays the code for 'index.html'.

```
<!DOCTYPE html>
<html>
<head>
<title></title>
<meta charset="utf-8" />
<link href="kendo/styles/kendo.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="setting">Settings</a>
<a href="views/contacts.html" data-icon="setting">Contacts</a>
</div>
</div>
</div>
</body>
</html>
```

A modal dialog titled 'Publish' is open, showing a step-by-step process:

1. Select target store
2. App Store
3. Google Play
4. Telerik AppManager

The 'App Store' section contains instructions: "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." It also includes a link to "For more information, click [here](#)".

At the bottom of the modal are 'Cancel' and 'Next' buttons. The 'Project Navigator' sidebar on the right shows the project structure for 'MyHybridApp'.

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.

Close

Project Navigator

Solution 'MyHybridApp'

- MyHybrid
 - cordova
 - Plugins
 - Properties
 - App_Resources
 - kendo
 - scripts
 - styles
 - views
 - index.html

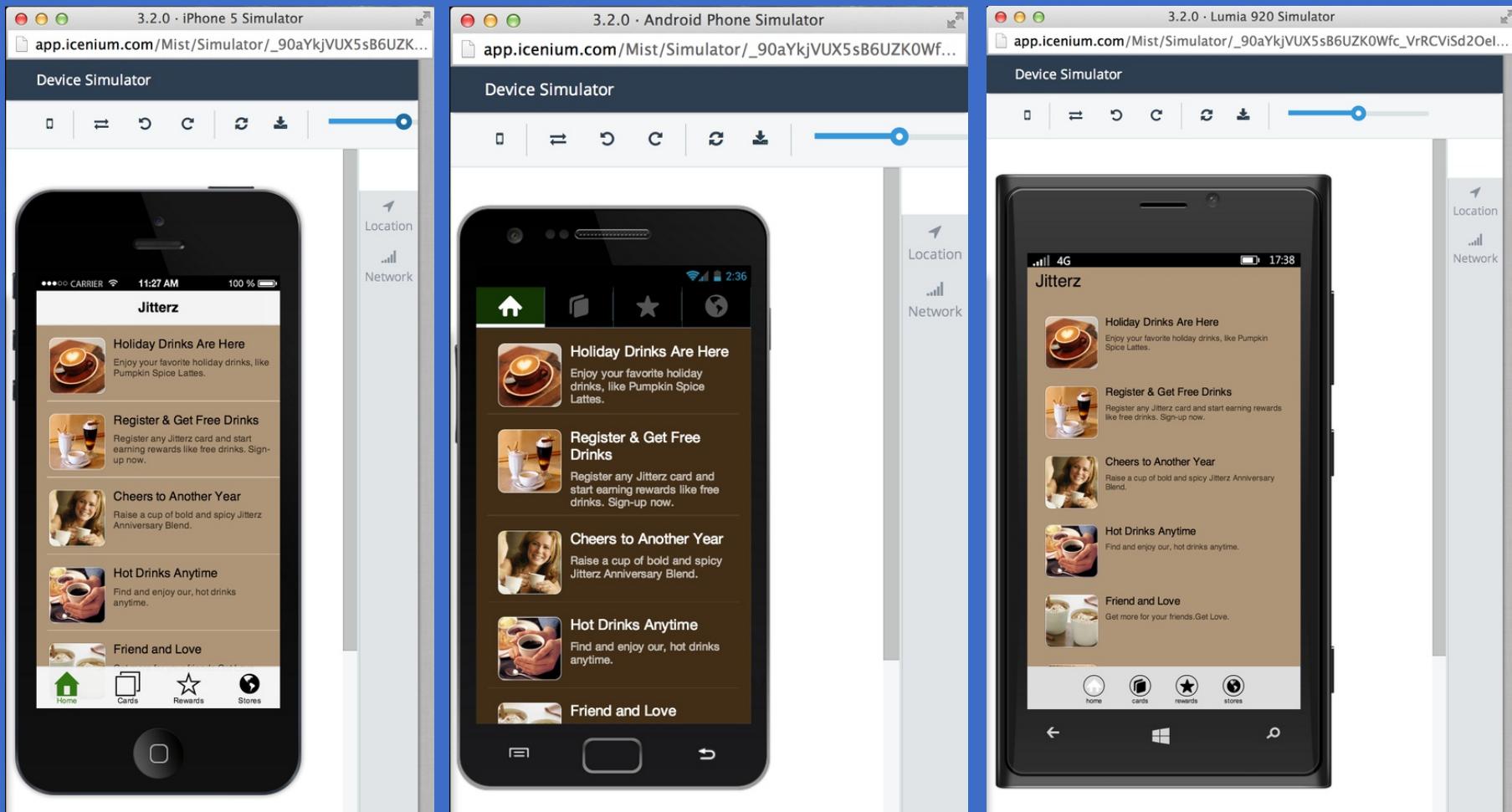
Version Control

- + Add
- Edit Configuration
- Paste
- Rename
- Export
- Publish
- Properties
- Manage Packages

Project Data

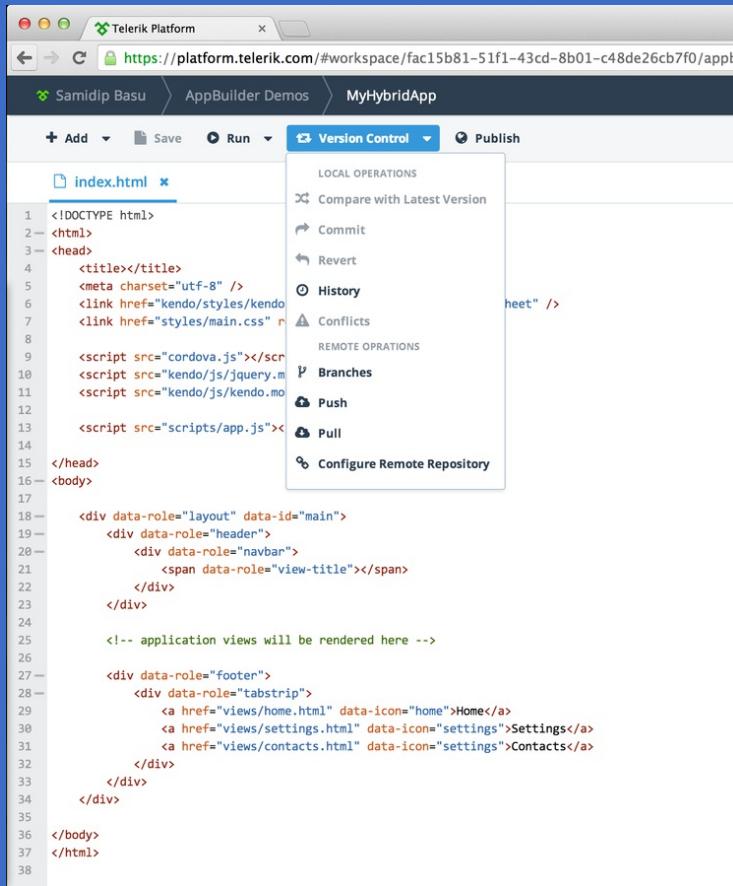
Adaptive Rendering

Thanks to Open-Source Kendo UI Mobile framework ..



Collaborate

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

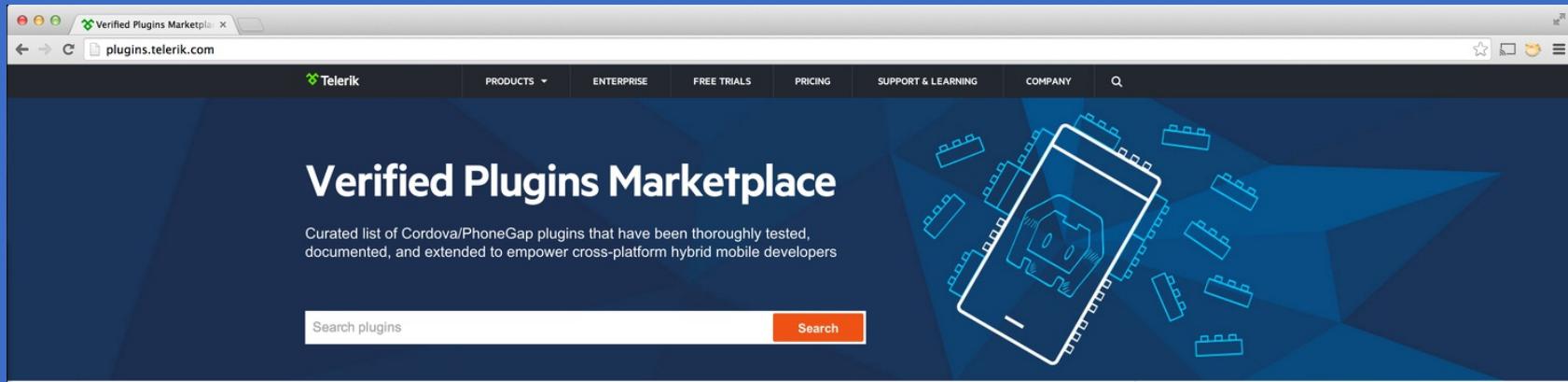


The screenshot shows the Telerik Platform AppBuilder interface. On the left, the code editor displays the content of index.html. The code is a standard HTML file with script and style links to Kendo UI components. On the right, the Version Control panel is open, showing local operations like 'Commit' and 'Revert', and remote operations like 'Push' and 'Pull'. A 'History' section is also visible.

```
<!DOCTYPE html>
<html>
<head>
<title></title>
<meta charset="utf-8" />
<link href="kendo/styles/kendo.common.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.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 Cordova or Telerik verified Plugins ..



The screenshot shows the Verified Plugins Marketplace on a Mac OS X browser. The page has a dark blue header with the Telerik logo and navigation links for PRODUCTS, ENTERPRISE, FREE TRIALS, PRICING, SUPPORT & LEARNING, COMPANY, and a search bar. Below the header is a large graphic of a smartphone with circuit board components floating around it. The main content area features a section titled "Verified Plugins Marketplace" with a subtitle about curated plugins for cross-platform hybrid mobile developers. It includes a search bar and a "Sort by: A-Z | Recent | Downloads" dropdown. On the left, there's a "All Plugins" section listing three items: AdMob, AYLIEN Text Analysis API, and BackgroundAudio. Each item has a thumbnail, the plugin name, the developer, a brief description, and download statistics. On the right, there are "Filter Plugins" sections for "By Platform" (Android, iOS, Windows Phone 8) and "By Owner" (Telerik), along with links for "Subscribe for updates" (RSS Feed) and "Share this page" (Facebook, Twitter, LinkedIn, Google+).

Verified Plugins Marketplace

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

Search plugins

SORT BY: A-Z | Recent | Downloads

All Plugins

20 Plugins

AdMob
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
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
by Eddy Verbruggen

The BackgroundAudio plugin allows your app to keep on playing audio when it's in the background.

Filter Plugins

All Plugins

By Platform

Android
iOS
Windows Phone 8

By Owner

Telerik

Subscribe for updates

RSS Feed

Share this page

Share 3
Tweet 36
Share 4
g+ 13

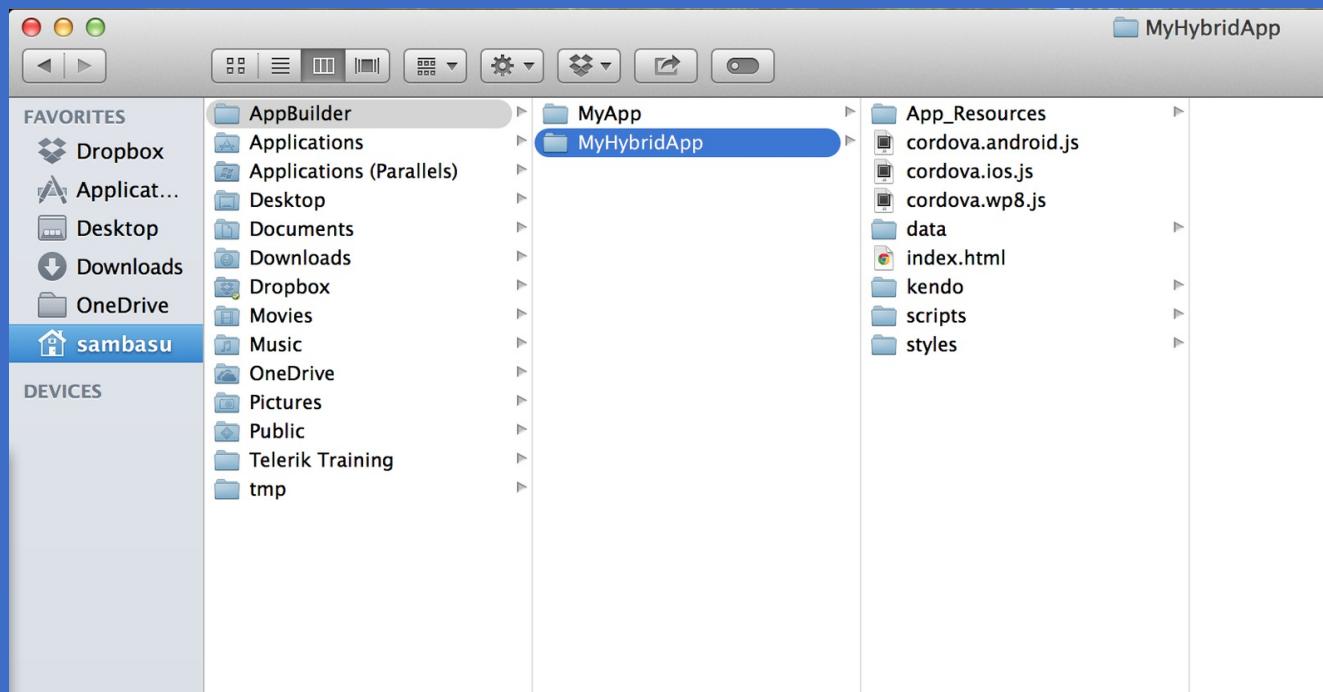
One more thing ..

You can do all this from
AppBuilder Command Line Interface!

Works on both OSX & Windows

Install & Create

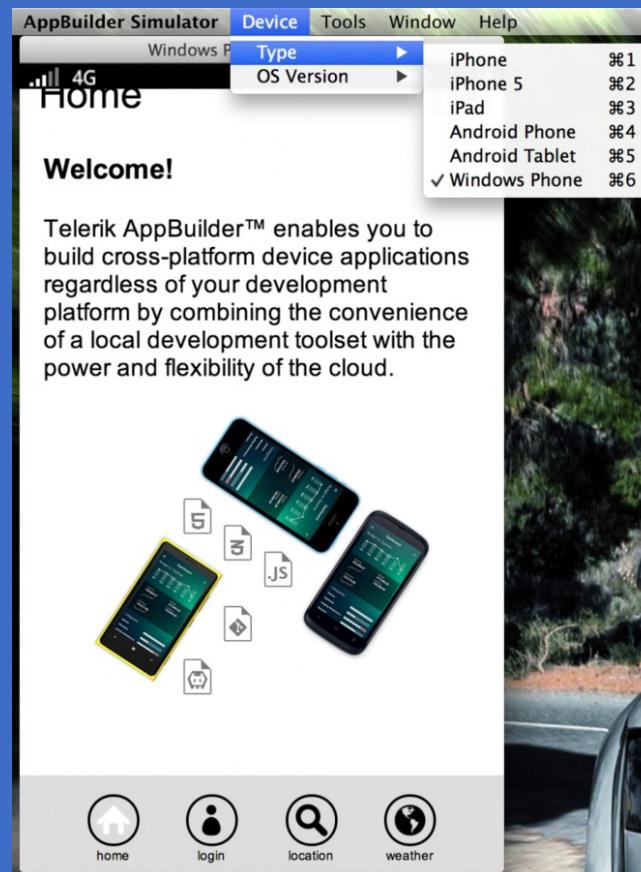
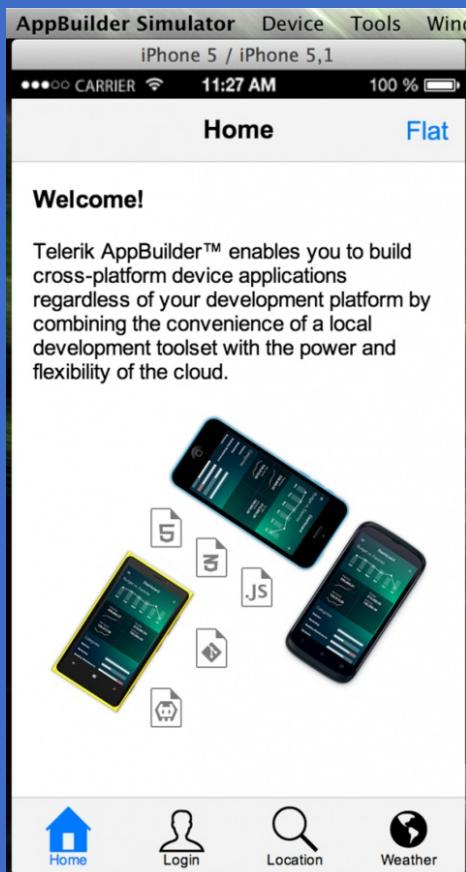
```
$ sudo npm install -g appbuilder  
$ appbuilder create hybrid MyHybridApp
```



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!

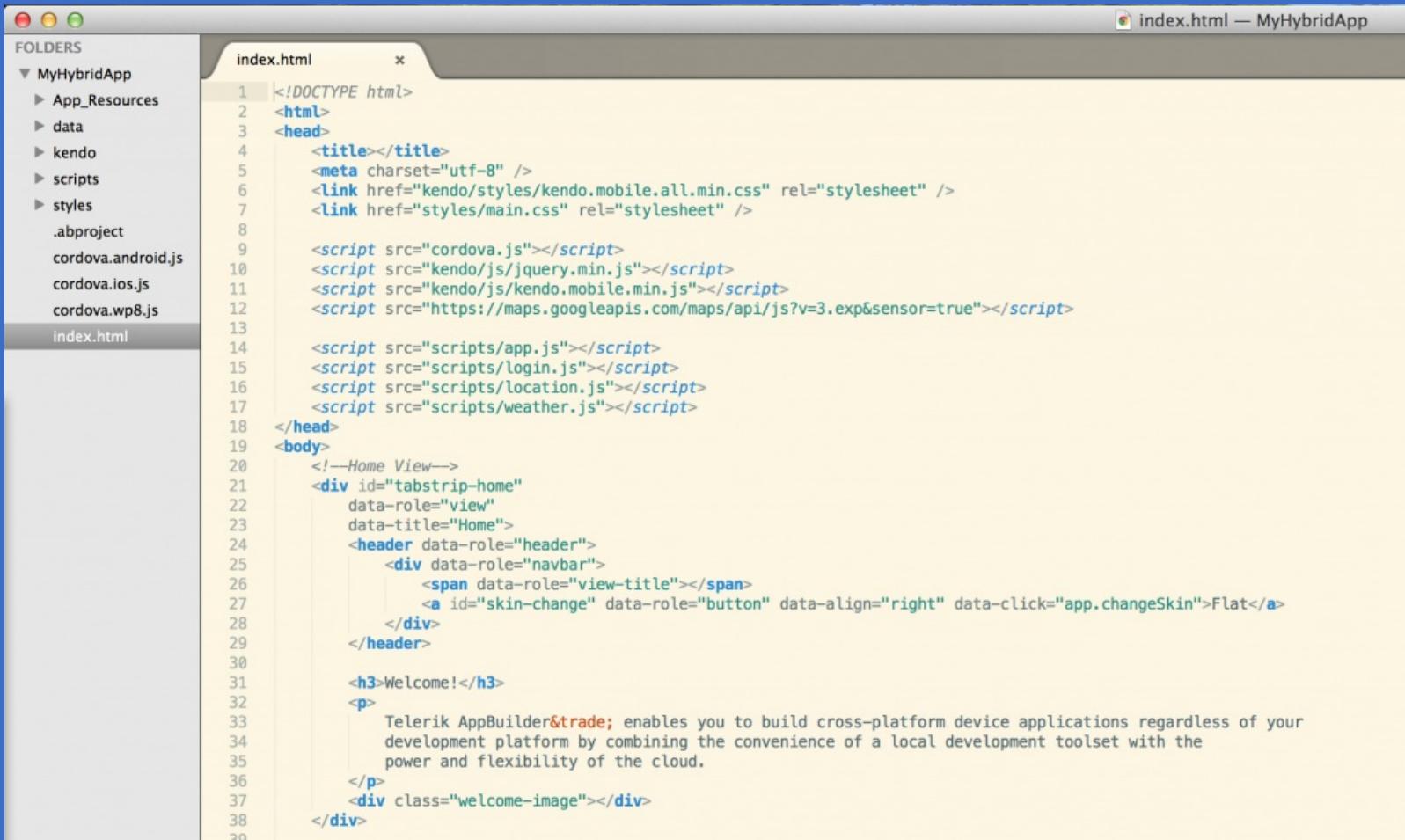
And, one more thing ..

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:

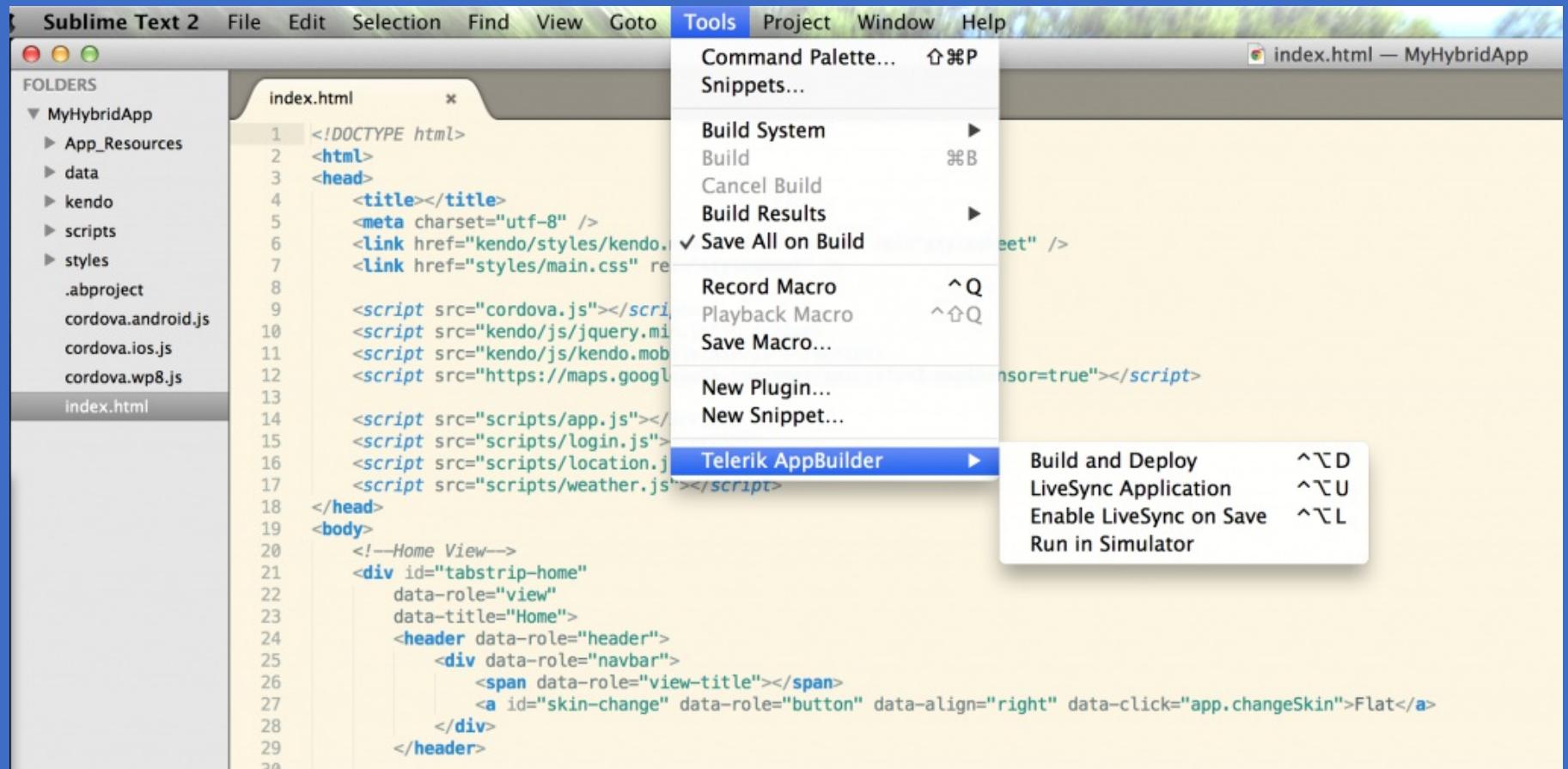
- File Path:** index.html — MyHybridApp
- Folders:** MyHybridApp, App_Resources, data, kendo, scripts, styles, .abproject, cordova.android.js, cordova.ios.js, cordova.wp8.js, index.html
- Code Editor Content:** The code is an HTML file with some CSS and JavaScript included. It includes imports for Kendo UI mobile and Google Maps, and defines a header with a navbar and a welcome message.

```
<!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="https://maps.googleapis.com/maps/api/js?v=3.exp&sensor=true"></script>

    <script src="scripts/app.js"></script>
    <script src="scripts/login.js"></script>
    <script src="scripts/location.js"></script>
    <script src="scripts/weather.js"></script>
</head>
<body>
    <!--Home View-->
    <div id="tabstrip-home" data-role="view" data-title="Home">
        <header data-role="header">
            <div data-role="navbar">
                <span data-role="view-title"></span>
                <a id="skin-change" data-role="button" data-align="right" data-click="app.changeSkin">Flat</a>
            </div>
        </header>
        <h3>Welcome!</h3>
        <p> Telerik AppBuilder™ enables you to build cross-platform device applications regardless of your development platform by combining the convenience of a local development toolset with the power and flexibility of the cloud.</p>
        <div class="welcome-image"></div>
    </div>
</body>
```

Build & Deploy



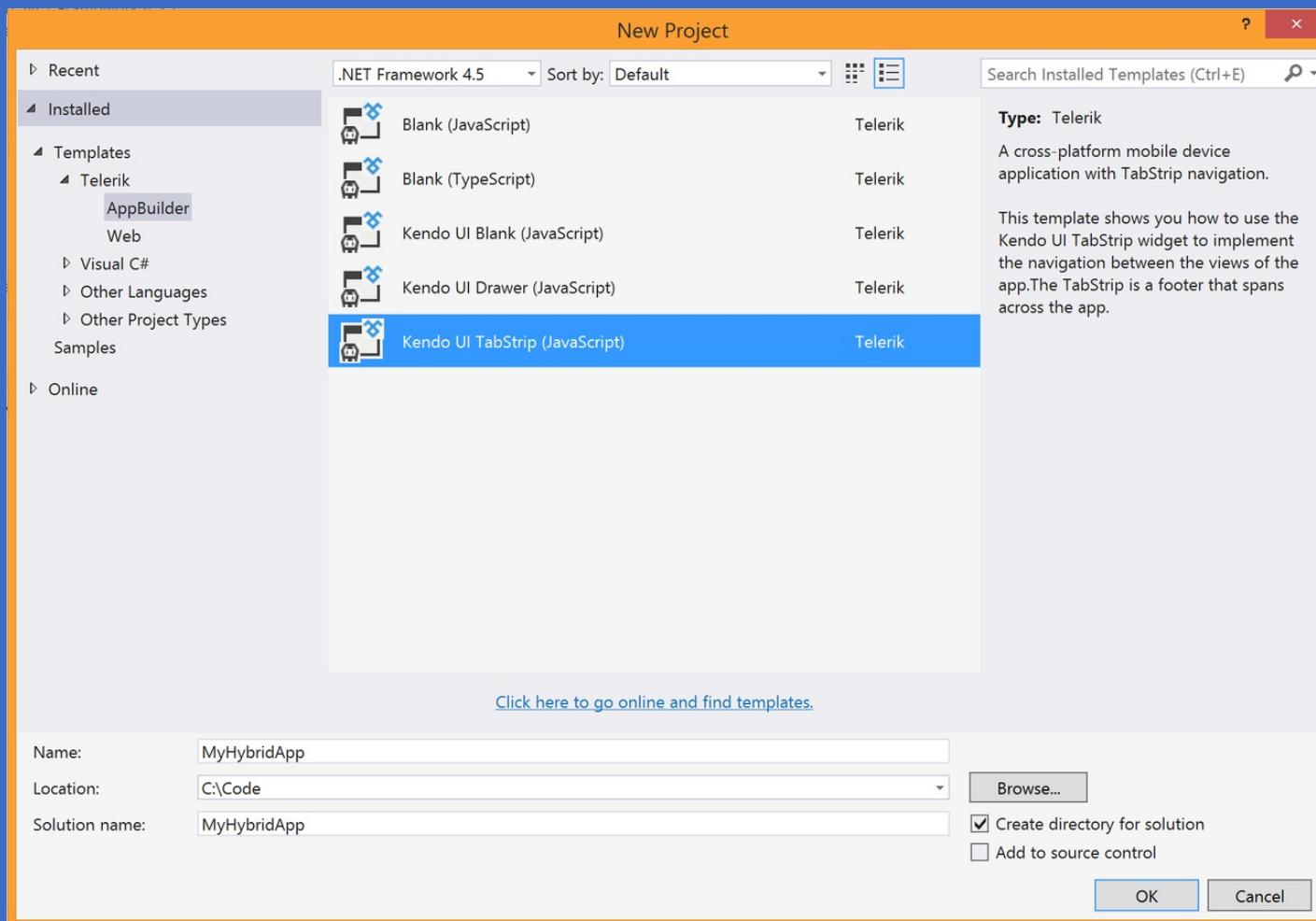
One last thing ..

You know that IDE that developers LOVE?
Yup, Visual Studio

Yeah, you can do everything in Visual Studio!

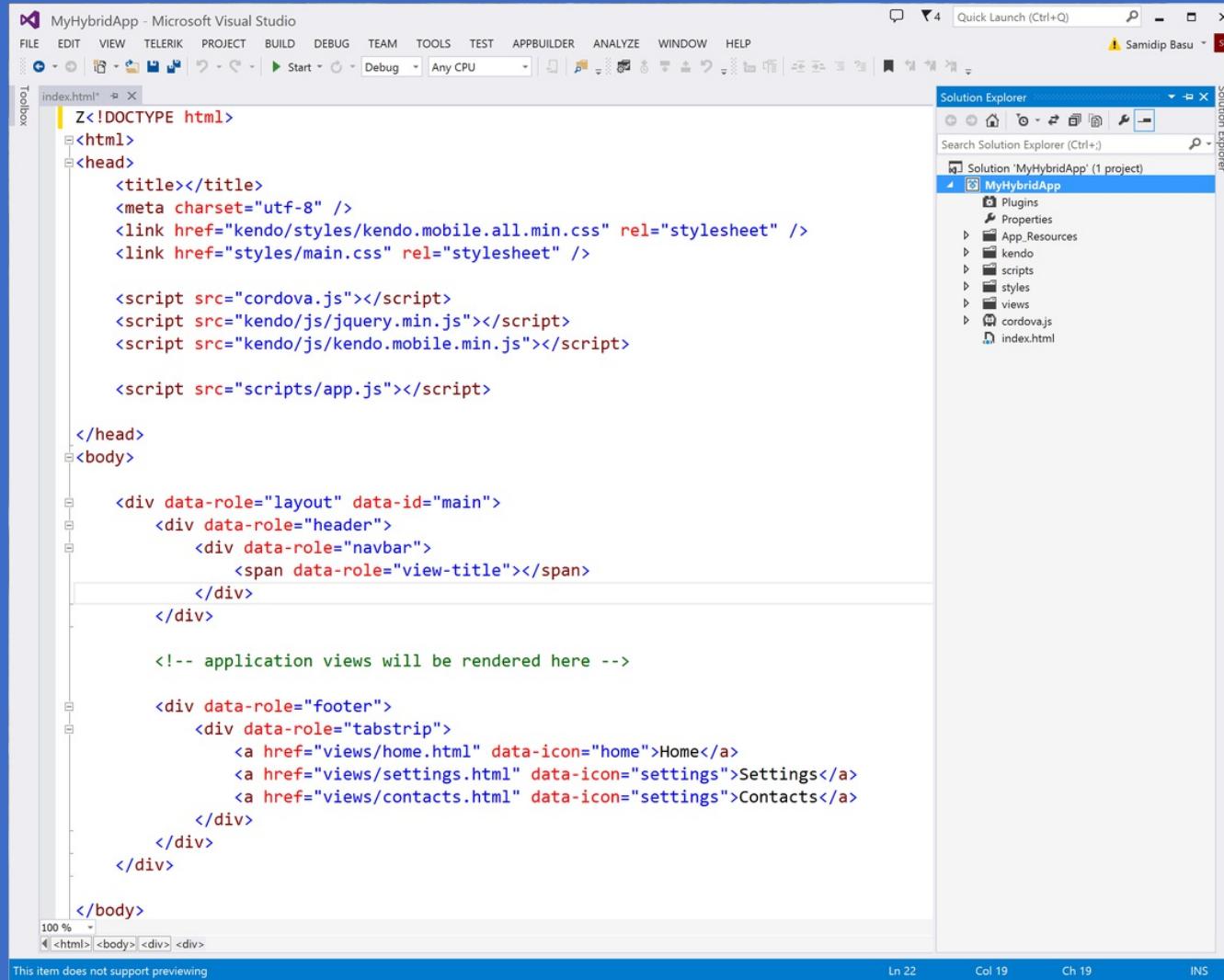
AppBuilder VS Extension

Same project templates ..



Build X-Plat Mobile apps

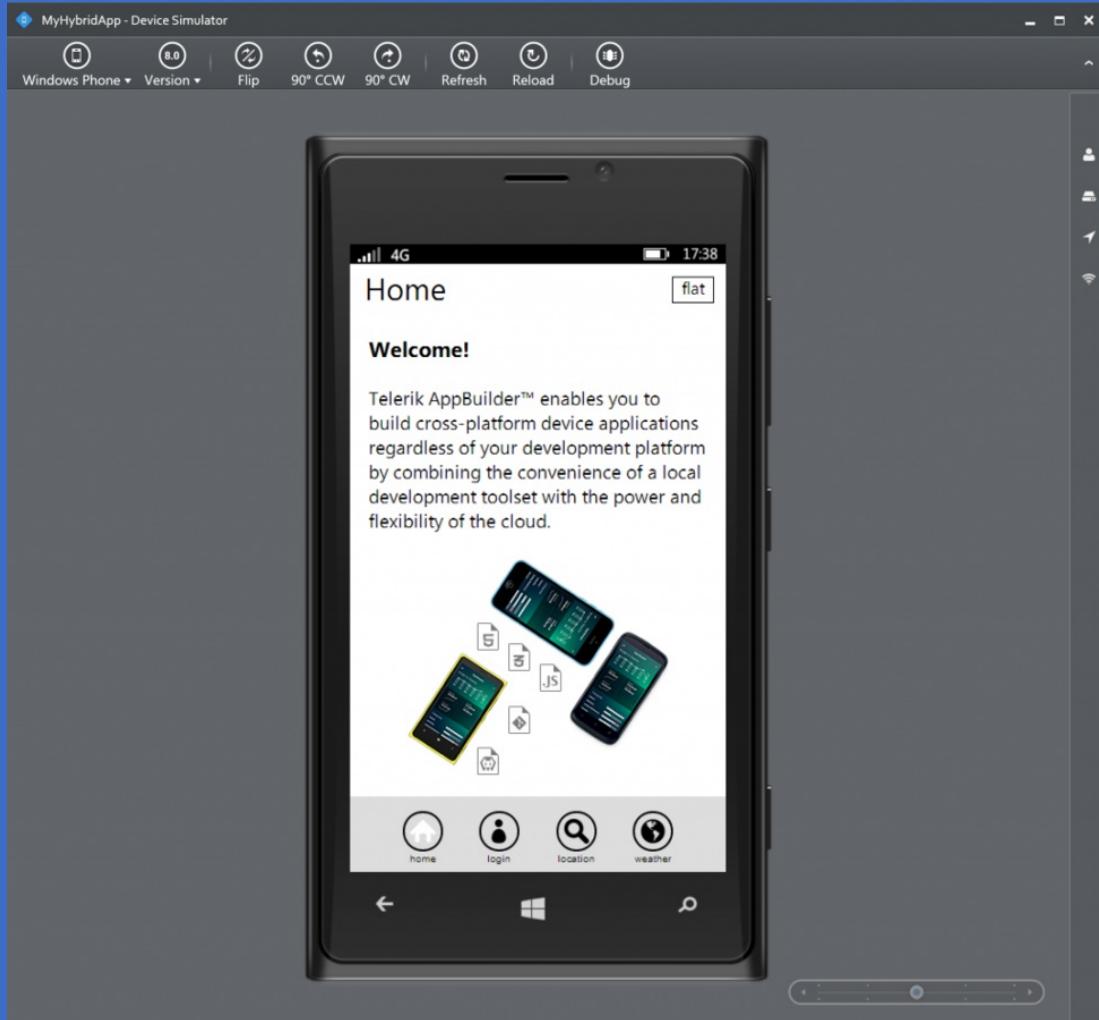
Never having to leave Visual Studio!



The screenshot shows the Microsoft Visual Studio interface with the following details:

- Title Bar:** MyHybridApp - Microsoft Visual Studio
- Menu Bar:** FILE, EDIT, VIEW, TELERIK, PROJECT, BUILD, DEBUG, TEAM, TOOLS, TEST, APPBUILDER, ANALYZE, WINDOW, HELP
- Toolbars:** Standard, Debug, Task List, Solution Explorer, Properties, Task List, Status Bar.
- Code Editor:** The main window displays the 'index.html' file content, which includes Kendo UI mobile markup such as `<div data-role="layout" data-id="main">`, `<div data-role="header">`, and `<div data-role="content">`.
- Solution Explorer:** Shows the project structure for 'MyHybridApp' with the following files:
 - Plugins
 - Properties
 - App.Resources
 - kendo
 - scripts
 - styles
 - views
 - cordova.js
 - index.html
- Status Bar:** This item does not support previewing, Line 22, Col 19, Ch 19, INS.

Just hit F5 to run your app



Native simulators for iOS, Android & Windows Phone!

We promised Developer freedom!

IDE Choices

In-Browser Client



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

Windows Client



This native Windows application provides code navigation, refactoring and real-time on-device updates.

Visual Studio Extension



Enjoy all of the AppBuilder platform's cross-platform capabilities without leaving Visual Studio.

Sublime Text Package



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

Command-Line Interface



Access the build, deploy and simulator capabilities of AppBuilder from the command line, on Windows or OS X.

It's okay ..

We're just as excited!

X-Plat Mobile Developers Rock

Now, go build your dream
We're right here to support you!

