

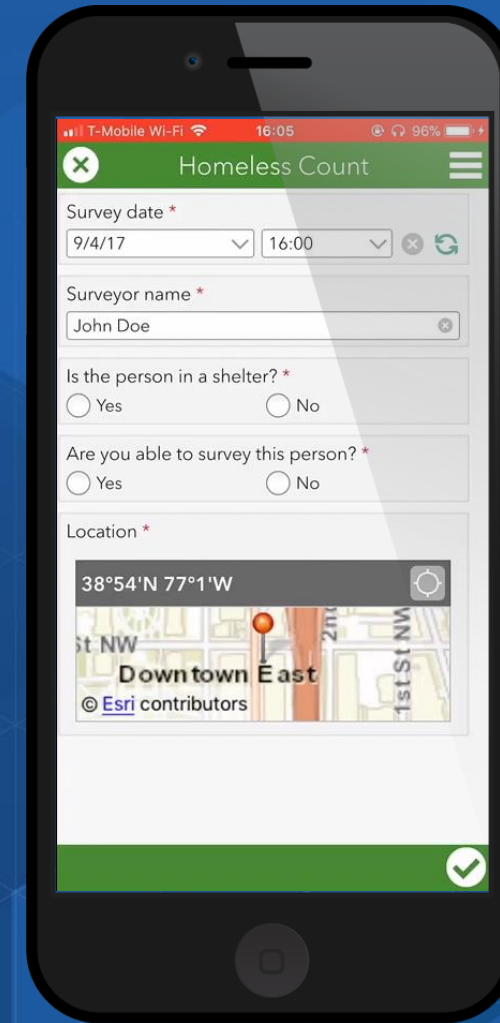
Overview

- Overview of Survey123 and AppStudio for ArcGIS
- Customization Scenarios
- Demo
- Things to Consider

Survey123 for ArcGIS

Form Centric Data Collection

- Simple data collection experience
- Web & Native / Desktop & Devices
- End to end data collection workflow



Why extend Survey123

- **Make smart forms smarter**
- **Complex business logic**
- **Focused user workflows**
- **Integrate with other apps and systems**
- **Automate processes**
- **Corporate identity**
- **Add new functionality**
- **Change existing functionality**

Ways to extend Survey123

- Themes
- App links
- Imbedding into Web Apps
- Python
- Webhooks
- JavaScript Functions
- Re-brand the field app
- Modify the code!
- Add-Ins (coming)

Ways to extend Survey123

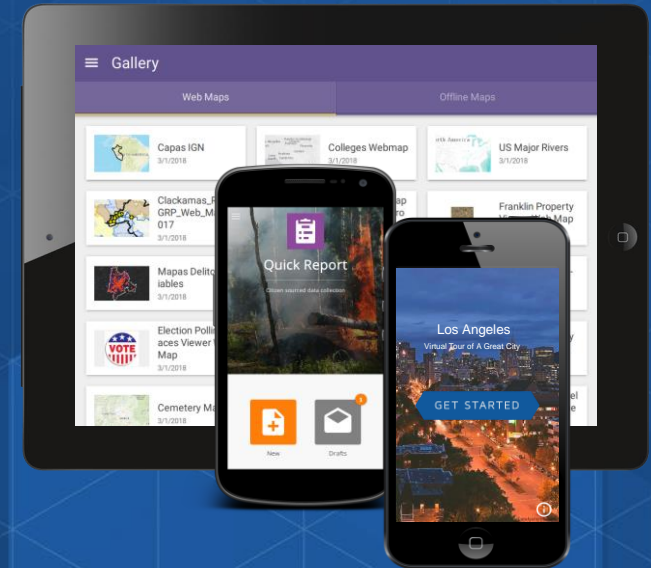
- Themes
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What is AppStudio?

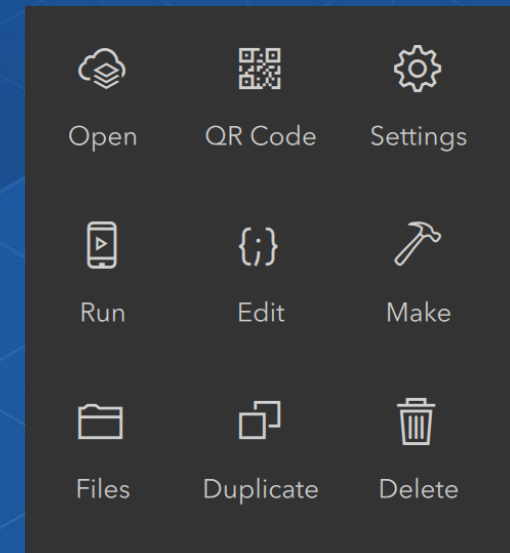
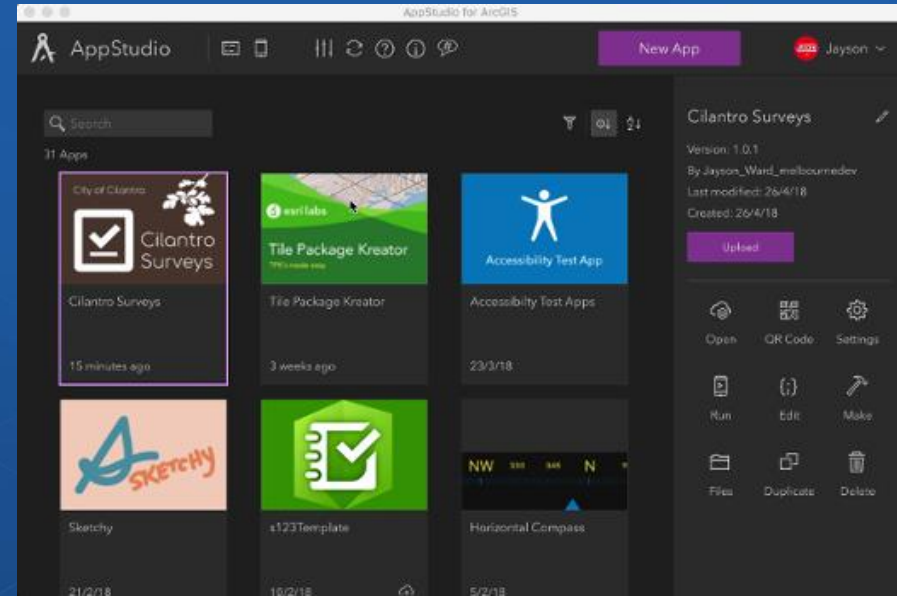
- A suite of productivity tools for creating native apps
- One app that works across all platforms (iOS/macOS, Android, Windows, Linux)
- Survey123 App Template included with AppStudio Standard License





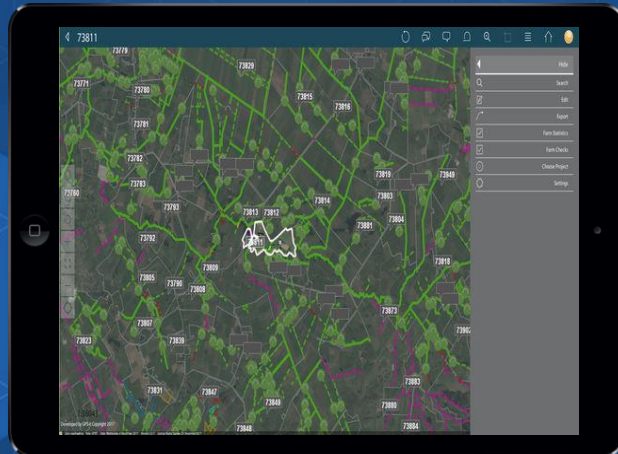
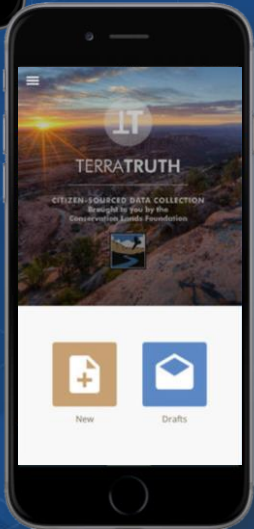
What is AppStudio?

- Tools for Building and Testing Apps
 - AppStudio Desktop
 - AppStudio Player
 - Console Window
 - Cloud Make
 - Qt Creator IDE
- Write code in QML and JavaScript
 - Similar to HTML5/JSON and JavaScript



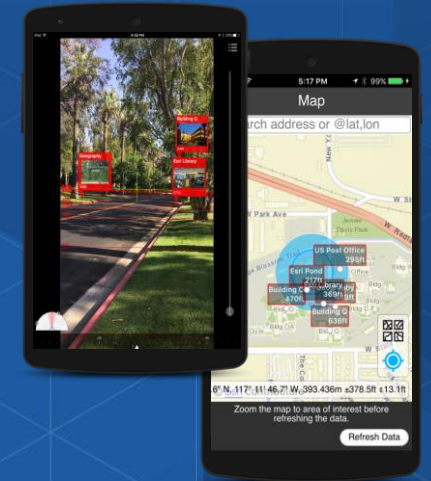


Apps Built Using AppStudio for ArcGIS



Esri Apps

User Apps





How do I get an AppStudio Standard License?

AppStudio Standard License is included with all paid ArcGIS Developer Subscriptions

developers.arcgis.com

ArcGIS Developer Pricing

Overview

Pay as you go

Compare plans

ArcGIS Runtime licensing

Compare Plans

Compare the best plans for:

Building Apps

Extending the ArcGIS Platform

	Builder	Professional	Premium	Enterprise
	Build advanced GIS apps and workflows	Build advanced GIS workflows and extend ArcGIS	Build advanced GIS workflows and extend ArcGIS	Build advanced GIS workflows and extend ArcGIS
	\$125 / month \$1,350 / year	\$1,800 / year	\$3,300 / year	\$4,300 / year
	Purchase	Purchase	Purchase	Purchase
Free monthly service credits	50	50	50	50
Deploy revenue generating apps	✓	✓	✓	✓
ArcGIS Developer Tools				
ArcGIS API for JavaScript	✓	✓	✓	✓
Mobile and Desktop SDKs	✓	✓	✓	✓
ArcGIS API for Python	✓	✓	✓	✓
ArcGIS REST API	✓	✓	✓	✓
ArcGIS Online	✓	✓	✓	✓
Configurable Apps and Builders	✓	✓	✓	✓
Web AppBuilder	Dev Edition	Dev Edition	Dev Edition	Dev Edition
AppStudio for ArcGIS	Standard	Standard	Standard	Standard
Other benefits				

Demo

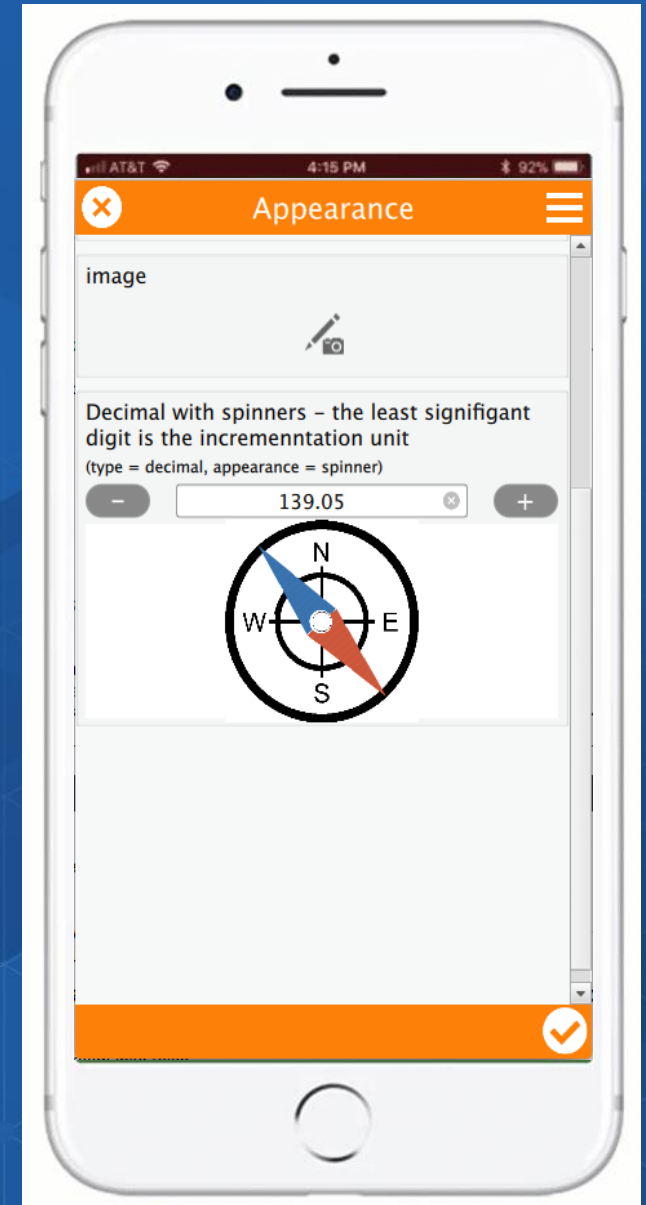
Customization Scenario

- User Interface - Branding
 - White-Labeling scenario
 - Color
 - Logo
 - Font
 - Corporate or Organization Branding
- RC Collect
 - Only access to Red Cross ArcGIS Enterprise
 - Strict Corporate Branding



Customization Scenarios

- Extend the capability of the Survey Forms
 - Tailor the user experience of user input controls in the Survey
 - Incorporate xForm appearance or question types that may not still be supported by the application
- South Dakota Game, Fish and Parks
 - Customize the user input control to count so that it's easier to count the number of fish while fishing in the boat.
 - Compass bearing input by simply tapping on the compass or “tap and hold” to get your device compass reading.



Customization Scenarios

- Extend the capability of the App
 - To connect to Bluetooth-enabled Printer and Print
 - To add timestamp and location-stamp to the photo taken
- Data submission workflow
 - Submit data to custom webservice or multiple sources
 - Saving duplicate data/survey to database



User Story

City of Cilantro




The City of Cilantro wants to have a custom version of Survey 123 that is branded and that will be used by various city departments to conduct surveys.

Some surveys used in the field will include the getting wind direction information, having a compass bearing as input will be helpful and photo of with watermark of timestamp, location and copyright text.



This isn't currently supported in Survey123 and will need to be a customized solution.



Extending Survey123 Blog – White Labeling


<https://community.esri.com/groups/survey123/blog/2018/04/29/customizing-survey123-part-1-white-labeling>




Extending Survey123, Part 1: White Labeling

 Blog Post created by [Jayson Ward](#)  on Apr 29, 2018

 Liked • 4  Comment • 3

For this blog post, and the subsequent blog post on extending Survey123's functionality, I've created a user story for a fictitious municipality called the City of Cilantro that will help guide the customization process. Also, a public repo with the customized app is available at [Github: Cilantro Surveys](#) 

I. User Story



The City of Cilantro needs a custom version of Survey123 that will be used by various city departments to conduct public and private surveys. The city currently has three customization needs:

1. The app needs to be branded to match the organization. [Not extending core functionality]
2. The city needs the ability to print the time and location onto new photos taken with some surveys. [Extending core functionality]
3. Some surveys used in the field will include the scanning of barcodes as the only action required of the survey. The application will need to automatically submit the survey after the barcode is successfully scanned and then open a new survey immediately upon

Demonstration

- White Labeling scenario
- Adding Compass Bearing custom question
- Adding timestamp on the photo
- The solution for City of Cilantro

Things to consider

- Survey123 releases a new version every 8 weeks
- Easy to upgrade to newest version
- AppStore review process
- Is it in the RoadMap? Can it wait?
- Ask in GeoNet

Questions?

Learn more about Survey123 and AppStudio

- Website: <https://survey123.arcgis.com/>
- Website: <https://appstudio.arcgis.com/>
- Ask in GeoNET :
 - Survey123 - <https://community.esri.com/groups/survey123>
 - AppStudio - <https://community.esri.com/groups/appstudio>
- Demo Code – City of Cilantro
 - <https://github.com/esoekianto/CilantroSurvey>
- Extending Survey123 GeoNet Blog – White Labeling
 - <https://community.esri.com/groups/survey123/blog/2018/04/29/customizing-survey123-part-1-white-labeling>



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