

Esri Developer Summit

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Developing Cross-Platform Native Apps with AppStudio for ArcGIS (Advanced)

Elvin Slavik, Sathya Prasad

Desktop Tools

A quick tour of the Desktop Edition tools

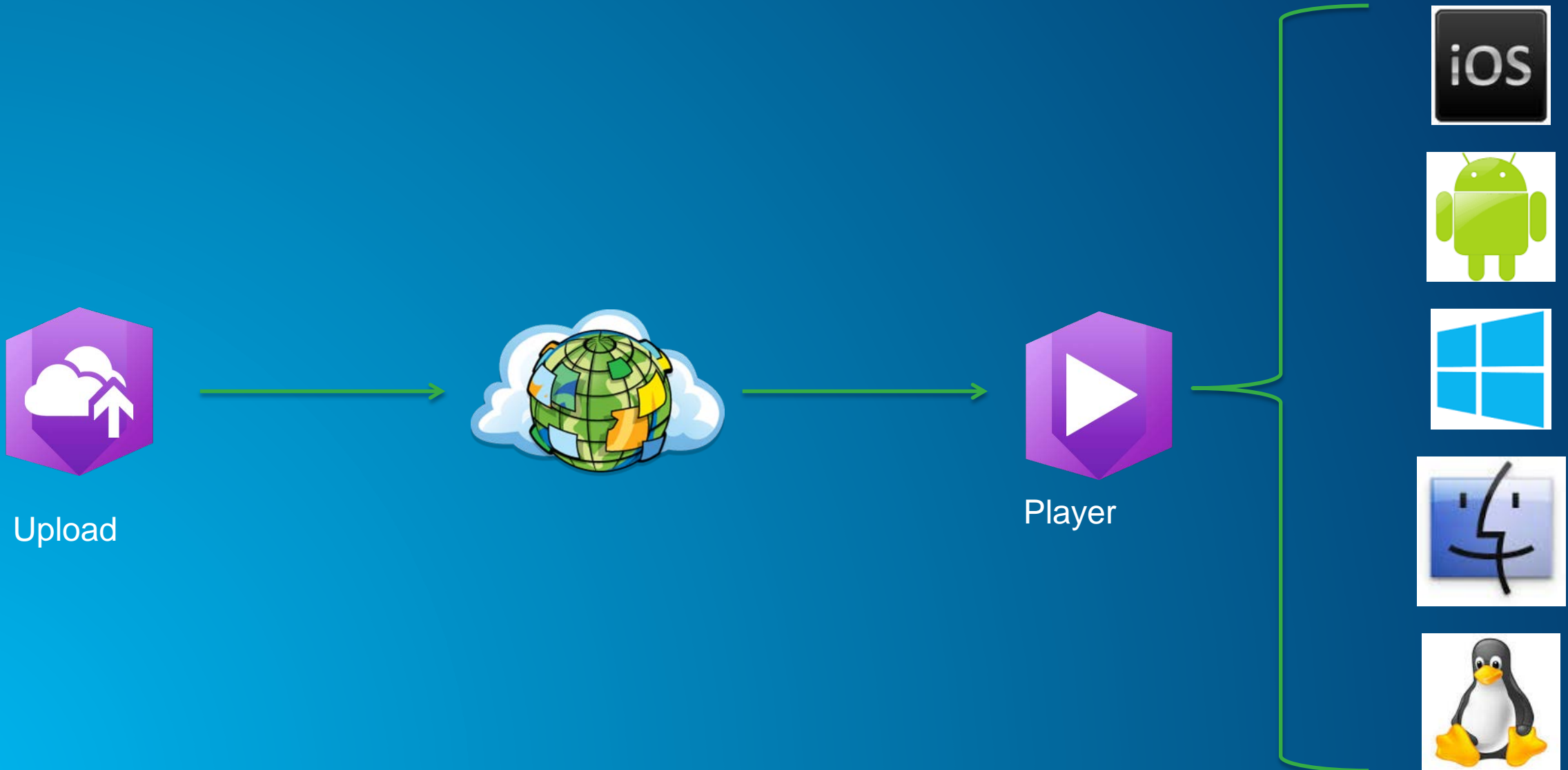
Hello World

AppPlayer

Test and deployment tool



AppPlayer Test and Enterprise Deployment Model



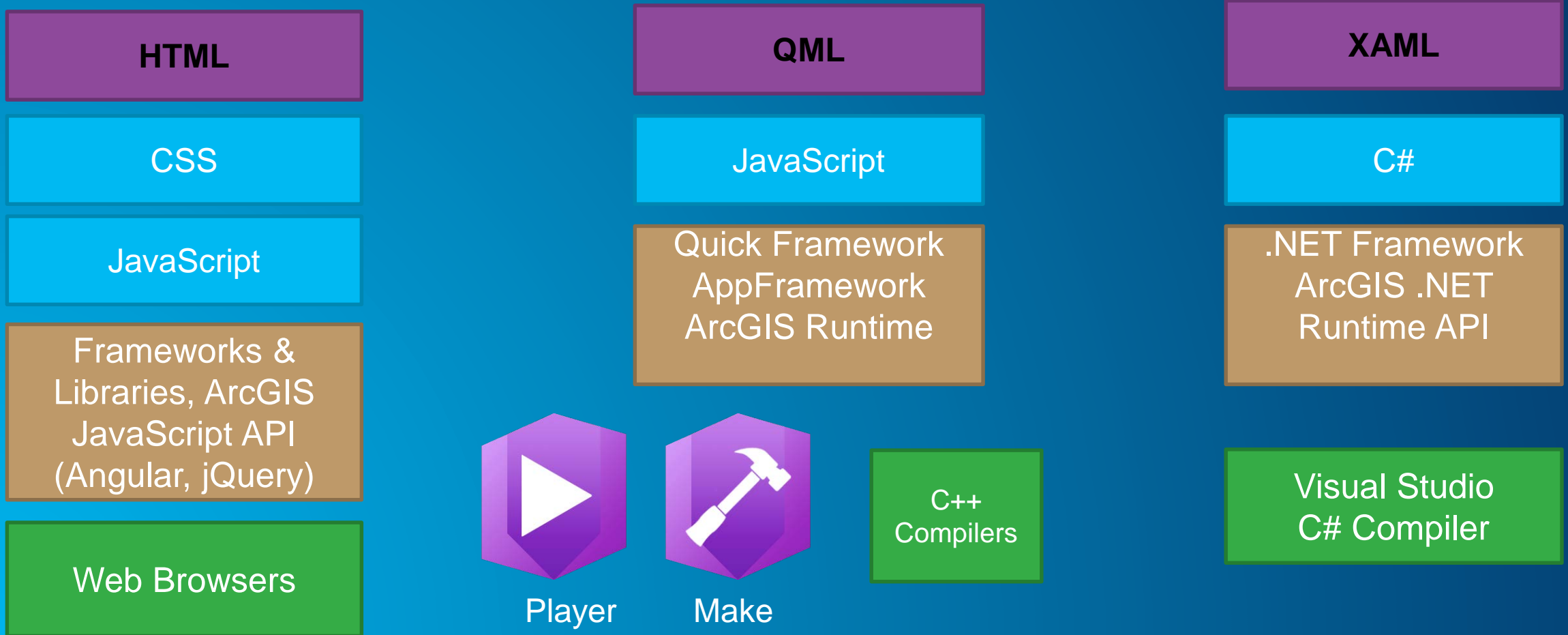
What is QML?

Qt Meta Language



What is QML?

A JavaScript-based, declarative language for designing user interface–centric applications.



QML

```
Rectangle {
    id: myRectangle

    x: 50
    y: 100
    width: 100
    height: 50
    color: "red"
    Text {
        anchors.centerIn: parent
        color: "yellow"
        text: "Hello World"
    }
}
```

QML + JavaScript

```
Button {
    anchors {
        horizontalCenter: parent.horizontalCenter
        top: parent.top
        margins: 20
    }

    text: myRectangle.visible ? "Hide it" : "Show It"

    onClicked: {
        myRectangle.visible = !myRectangle.visible;
    }
}
```


Generic QML Demos

QML – Some of the awesome bits

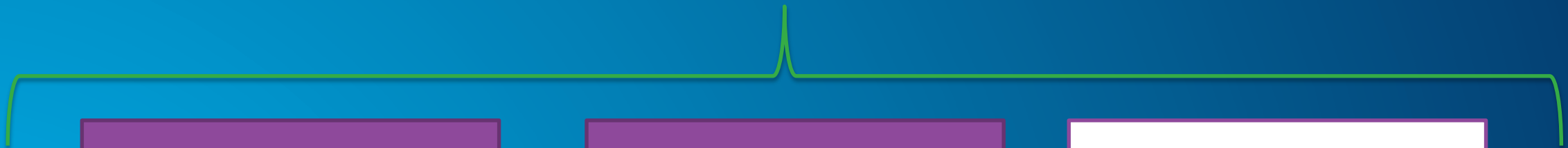
- **It's FAST!**
- **Property binding**
- **Signals (aka events)**
- **Promotes componentization and reuse of your code**
- **Animation**
- **JavaScript Engine (EMCA 5)**
- **Backed by native C++ code and libraries**

The Stack

Frameworks and the Runtime



The Stack



Qt Quick Framework

AppStudio
AppFramework

ArcGIS Runtime API

ArcGIS Maps, Feature Services, Packages ...

QML APIs

Qt Quick
Framework

- Core QML Components
- UI Controls
- Positioning
- Sensors

ArcGIS
Runtime API

- Map Control
- Layers
- Geometry
- Portal
- Geocoding
- Network Analysis
- Geodatabase
- Symbology

AppStudio
AppFramework

- App Infrastructure
- File System Components
- Network Components
- UI Widgets
- Additional Plugins

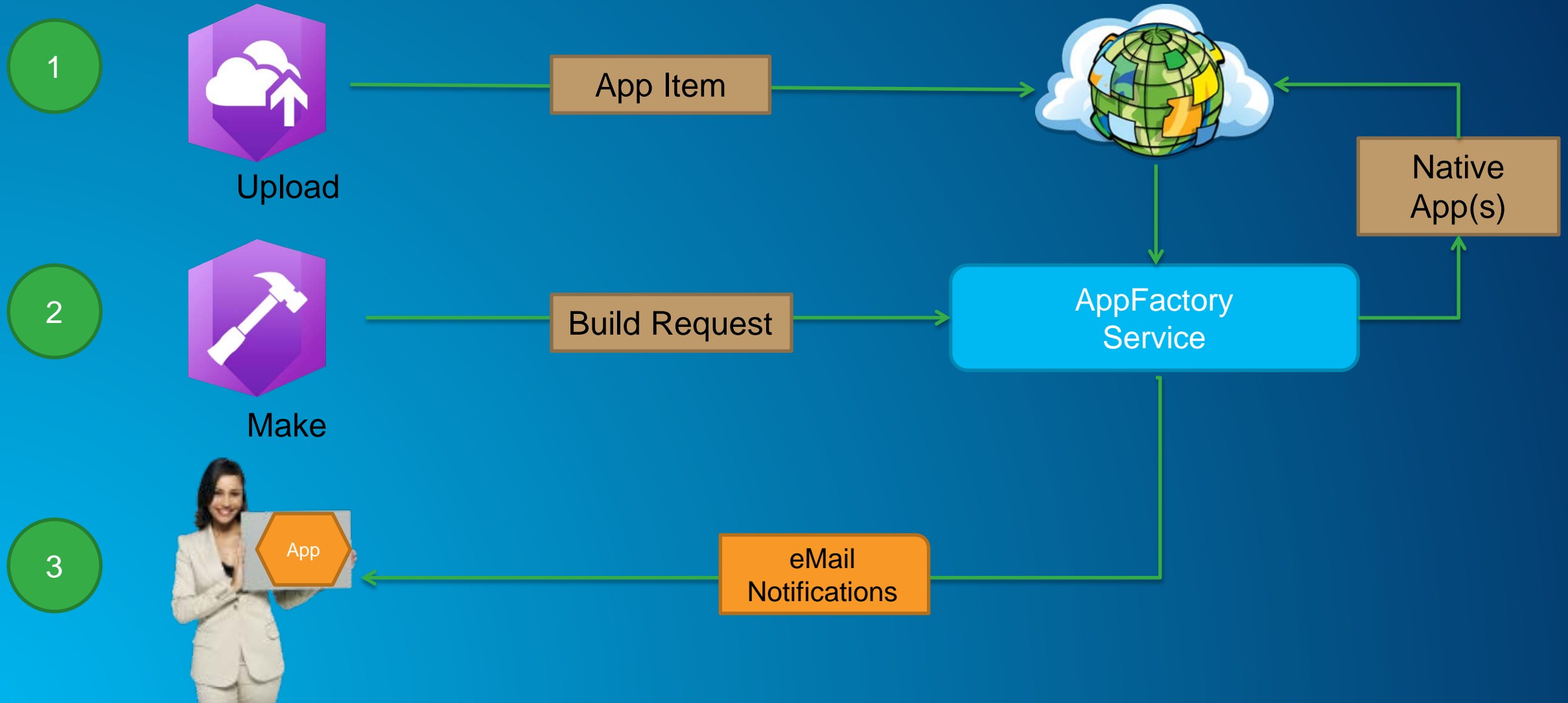
GIS App Demos

Cloud Make

We do the hard stuff for you



How Cloud Make Works



Distributing Apps

Getting your stuff to users



Deploying Apps

- What are the options?
- Which way do I go?



Run in Player

- Development & Test
- Enterprise



Make Binaries

- Enterprise
- App Stores

Resources

There is good stuff out there

A few useful links....

- <http://qmlbook.github.io>
- <http://doc.qt.io/qt-5/qml-tutorial.html>
- <http://doc.qt.io/qt-5/qtqml-index.html>
- <http://stackoverflow.com/questions/tagged/qml>
- <https://geonet.esri.com/groups/appstudio>
- <https://github.com/Esri/arcgis-appstudio-samples>
- **Ask the interwebs? There are many great resources out there**

