

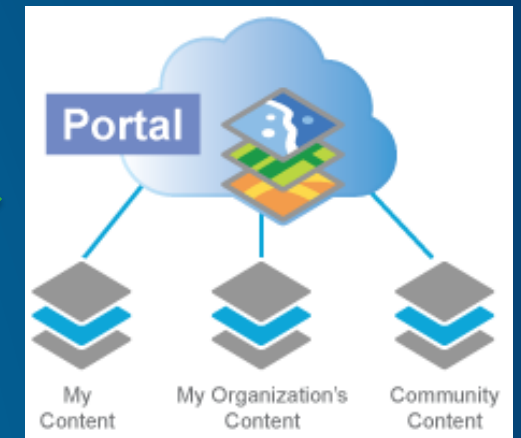
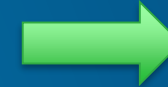
ArcGIS API for Python

&

ArcGIS Arcade

Asa Strong
Astrong@esri.com

What is the ArcGIS API for Python?



ArcGIS API for Python vs Arcpy

ArcGIS API for Python

- Script against a portal
 - ArcGIS Online or ArcGIS Enterprise
 - Python 3.x
- Analysis, Portal Admin, Content Creation, Big Data Analysis

ArcPy

- ArcGIS Desktop
 - ArcMap- Python 2.x
 - ArcGIS Pro - Python 3.x
- Mostly geoprocessing and some map automation

**Four different
groups working
with the ArcGIS
API for Python**

- **Org Administrators**
- **Content Publishers**
- **GIS Analysts and Data Scientists**
- **Power Users/ Developers**

Org Administration and Content Publishing

Org Administration

- Populate portal with users, groups
- Clone portals
- Re assign user content
- Perform comprehensive content search
- Determine item relationships
- Create reports of users, their items

Content Automation

- Automate content publishing
- Update tiles and features from a known database
- Replicate development environment content to production
- Inspect and update items with broken service links

ArcGIS Arcade: New Styling Language for your Services

What is Arcade?

- A new expression language for the ArcGIS Platform
 - ArcGIS Pro
 - Runtime SDKs
 - JavaScript API
 - Web apps
 - Collector (in June)
- Primarily designed for styling layers in ArcGIS web maps and web scenes

Arcade Goals

- **Portable**
- **Write and Expression in Pro, have it run in a Browser, or on a Device**
- **Secure**
- **Ensure that Expressions or Scripting do not compromise Security**
- **Lightweight**
- **Most requirements for Scripts and Expressions are Lightweight. The language should be small, and fast**

Arcade Purpose

- **Arcade is NOT intended to be a Full Programming / Scripting Language**
- **Goal : Lightweight and Simple**
- **Equivalent to a Spreadsheet Cell Calculation**

- **Embedded Expressions**
- **Labeling, Rendering, Symbol Variation**
- **Sharing**

- **Not a replacement for Python for geoprocessing and Automation**

Demo!

- [Jupyter notebook Python API/Arcade demonstration](#)

Resources!

Python API

[Python API Install guide](#)

[API documentation](#)

[API example notebooks](#)

Arcade

[ArcGIS Arcade Main Site](#)

[Arcade Function Reference](#)

[How to Arcade Story Map](#)

[Using Arcade expressions in web apps](#)

[How to Arcade Video](#)

[Using Arcade in your ArcGIS API](#)