

ArcGIS Developer Subscription and Licensing

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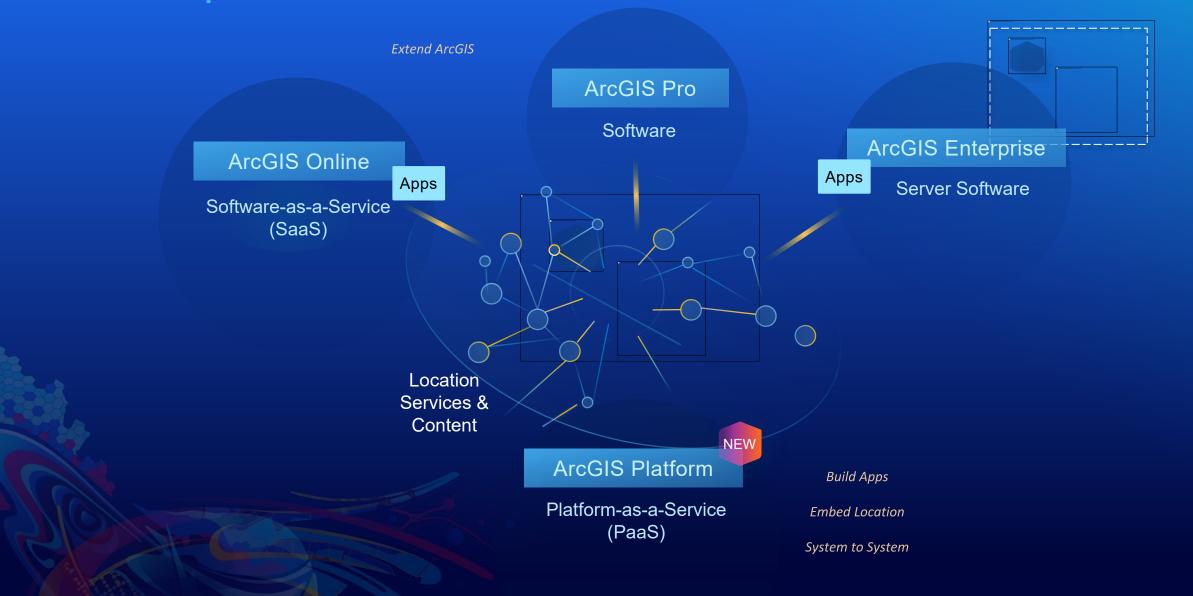


Agenda

- 1. ArcGIS System: A developers' perspective
- 2. Developing your solution: Tooling and software
- 3. Deploying your solution

ArcGIS System: A Developers Perspective

ArcGIS A Developer's View



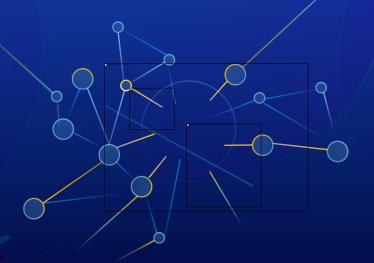
ArcGIS Platform | A Location Platform-as-a-Service

Location Services

Content & Capabilities

Developer Experience

Mapping APIs
Open-Source Mapping Libraries
Developer Resources

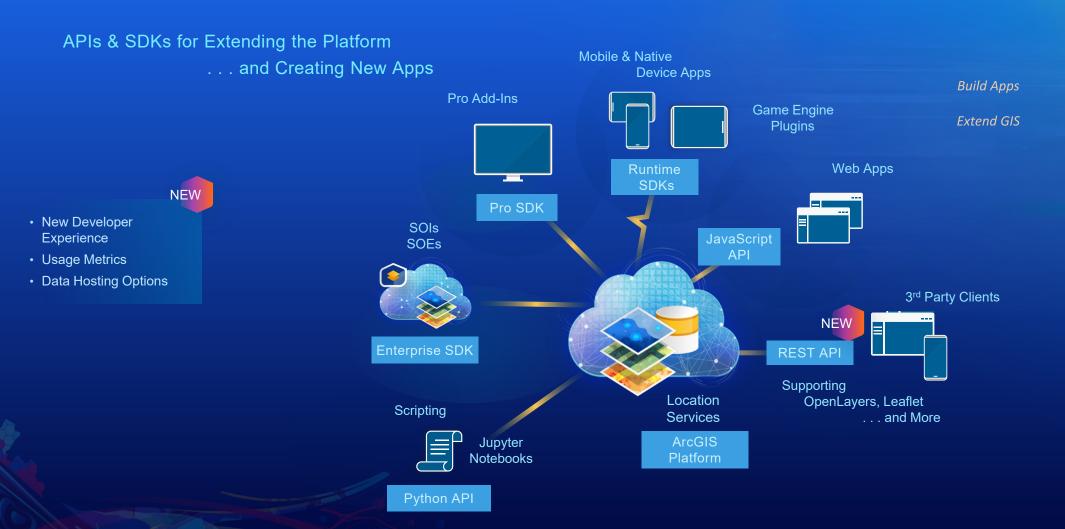


Business Model

Consumption-Based

An Intuitive Developer Experience for Accessing and Using ArcGIS Platform

ArcGIS A Developer's View



Building Apps

ArcGIS Client APIs

- ArcGIS REST API
- ArcGIS API for JavaScript
- ArcGIS Runtime APIs
- ArcGIS Maps SDK for Game Engines
- ArcGIS API for Python
- APIs architected to take full advantage of the Web GIS

 Pattern

Open Source Client APIs

- ArcGIS Rest JS
- Leaflet
- Open Layers
- Mapbox GL JS
- ArcGIS services architected to work with Open Source APIs



Build Apps

Embed Location

Extend ArcGIS

Web APIs and Native SDKs

ArcGIS REST API

- ArcGIS Platform and ArcGIS Enterprise services are RESTful services
- Over 25 service types
- Grouped into 4 sub categories
 - Location based services
 - GIS services
 - Users, groups and items services
 - Enterprise administration services
- Higher level APIs wrap these REST services
 - Simplifies development
 - Presents capability in a more familiar environment
 - The underlying REST service can still be access directly if required

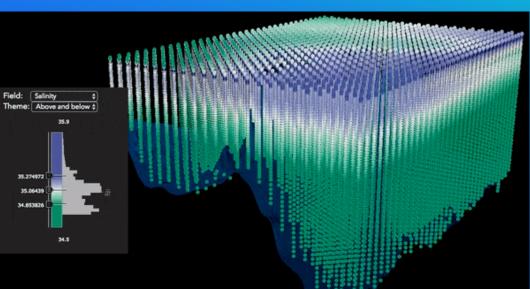


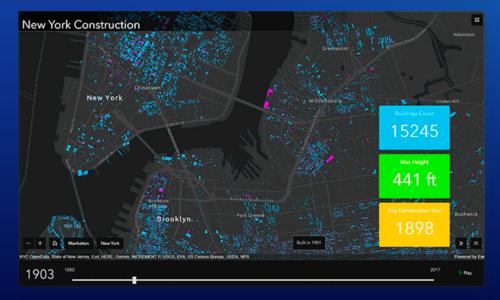
ArcGIS API for JavaScript

- A modern JavaScript API for Web GIS
- Supports 2D and 3D visualizations
- Mobile-first design
- Data-driven visualization
 - Turn data into information
 - Smart Mapping
- Client-side engine
 - Geometry, projection, queries

Supports Elegant and Engaging User Experiences

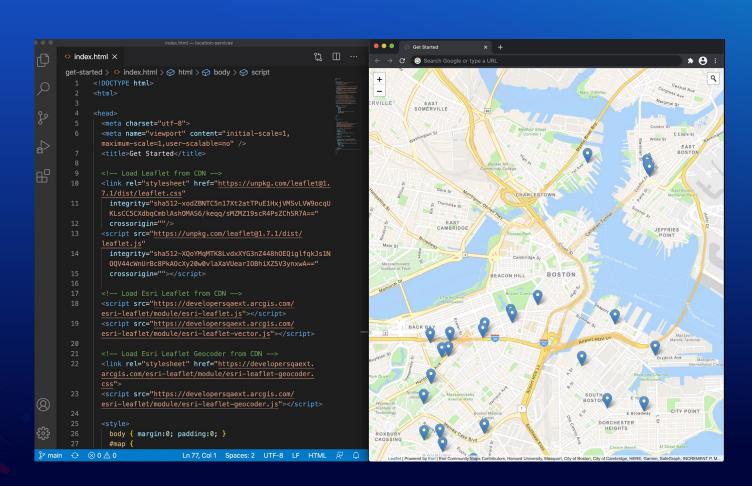






Open Source Web APIs

- Several open source APIs are supported
- Esri
 - Esri Leaflet
 - ArcGIS Rest JS
- Third Party
 - Open Layers
 - Mapbox GL JS



ArcGIS Runtime SDKs

- Native application development
- Advanced Cartography
- Excellent client to your web GIS
- Work Offline
- Cross-Platform and Cross-Device
- Distribute to App Stores





ArcGIS Maps SDK for Game Engines

- ArcGIS Maps SDK for Unity
- ArcGIS Maps SDK for Unreal Engine



- APIs to access ArcGIS services and local data
- Support local and global (open world) 3D experiences
- Honor real world, geographic coordinate space
- Include SDK resources











ArcGIS Python API

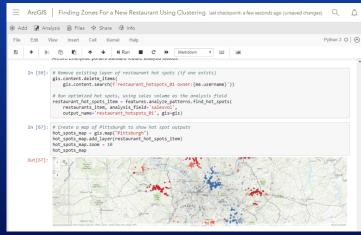
A Whole New Way to Experience and Leverage ArcGIS

- Analytics Data Science
- Scripting and Automation
- System Administration

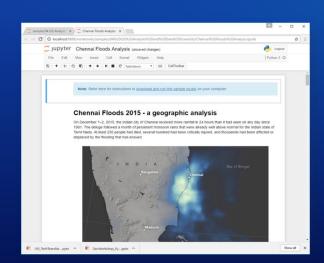


Scripts





ArcGIS Notebooks



Jupyter Notebooks

https://developers.arcgis.com/python/

Extension SDKs

ArcGIS Extending SDKs

- Extension SDKs allow developers to customize ArcGIS for their specific workflows
- SDKs are designed and built specifically for this purpose
- ArcGIS Pro SDK for .NET
- ArcGIS Enterprise SDK

ArcGIS Pro

Customizing and Extending ArcGIS Pro

- Configure UI through settings and workflows through tasks
- Automate using geoprocessing and Python
- Extend with your own custom tools and solutions using the Pro SDK for Microsoft .NET

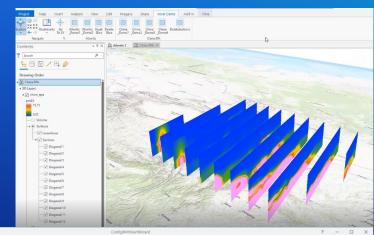


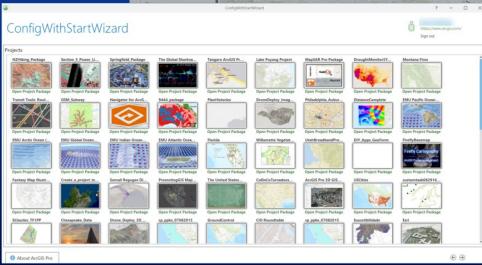


ArcGIS Pro .NET SDK

Customizing and Extending ArcGIS Pro

- Framework designed specifically to support customization
- Microsoft .NET using Visual Studio 2017/2019
- Extensibility patterns supported with SDK:
 - Add-Ins Develop tools and new functionality to extend Pro
 - Managed Configurations –branding, start-up experience, streamline UI
 - Plug-in Data sources Develop custom data source formats
 - CoreHost Applications Standalone apps for 64-bit
 Geodatabase and geometry access





ArcGIS Enterprise SDK

Extending ArcGIS Pro Compatible Services

- Extending ArcGIS Pro-based services
 - Building Server Object Extensions (SOEs)
 - Building Server Object Interceptors (SOIs)
 - Supports Map and Image services
- SDK for Java and .NET developers
- IDE integration for Eclipse (Java) and Visual Studio (.NET)





Purchase Software

Or

ArcGIS Developer Subscription

ArcGIS Developer Subscription

Plans Tailored to What You Do

Build Apps (ArcGIS Platform)

Essentials



- Mapping APIs
- Access to Location Services

Builder



- AppStudio
- ArcGIS Online

Professional

Extend ArcGIS



- ArcGIS Pro (Basic)
- ArcGIS Enterprise (Advanced)

Premium

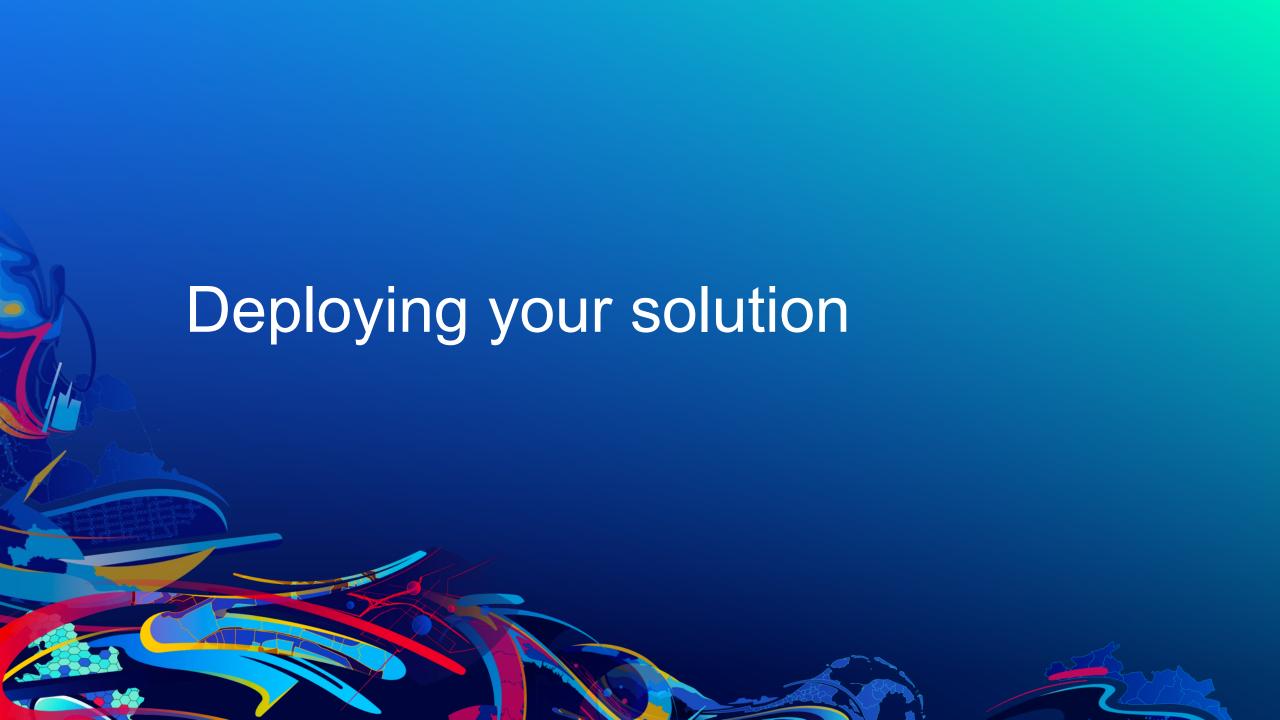


 ArcGIS Pro (Standard)

Enterprise



- ArcGIS Pro (Advanced)
- ArcGIS Enterprise Capabilities
- Dev Summit Registration



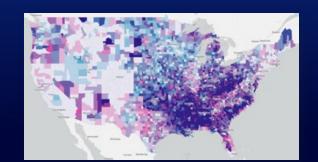
Areas To Consider When Deploying Apps

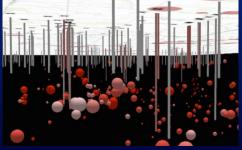
- 1. Use of location services
- 2. Mapping libraries
- 3. Extending ArcGIS











Deploying Solutions (1/3)

ArcGIS Platform Location Services

- Business model depends on the product you deploy with
 - Stand alone apps that leverage ArcGIS Platform
 - Fully consumption based
 - Currency is U.S. Dollars
 - Apps that extend ArcGIS Online, Pro
 - Consumption and subscription based
 - Currency is credits

Deploying Solutions (2/3)

Mapping Libraries

- JavaScript API
 - Unlimited free deployments
- Third party mapping libraries
 - Unlimited free deployments
- Runtime SDKs
 - Deployment license required
 - Named user or license string
 - Based on capability

Lite

- View maps/scenes/lyrs from ArcGIS
- · Routing, Place finding, geocoding

Basic

- All capabilities of Lite
- Editing of private data*
- Navigation

Standard

- All capabilities of Basic
- · Access to additional data
 - KML, Shapefiles, CADRG, J2K, TIFF, GeoTIFF, PNG, DTED ...
- · Advanced Editing
 - Utility Network

Advanced

- · All capabilities of Standard
- Analysis (177)
- Advanced 3D (33)
- Advanced Spatial Analysis (156)
- Advanced Network (10)

Deploying Solutions (3/3)

Extending ArcGIS

- A commercial license for the product you are extending is required
 - Custom app that extends our SaaS ArcGIS Online required
 - Add-ins and custom configurations in Pro ArcGIS Pro and applicable extensions required
 - SOIs and SOEs ArcGIS Enterprise required



