Getting Started with the ArcGIS Pro SDK: Add-Ins and Solution Configurations

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Agenda

• Pro SDK overview – 5 minutes
• Demos – 15 minutes
• Q&A and wrap-up – 5 - 10 minutes
Extending ArcGIS Pro
Three ways to configure and extend Pro

Options:

- **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
ArcGIS Pro SDK for Microsoft .NET

• Provides powerful capabilities for customizing and extending ArcGIS Pro
• Two patterns
  - **Add-Ins** – Develop new tools and functionality, and customize UI
  - **Solution Configurations** – Deeper customization, branding, start-up experience, streamline UI
• Microsoft .NET – Visual Studio development

Sample Add-In

Sample Solution Configuration, with custom splash screen
ArcGIS Pro SDK for Microsoft .NET

- Desktop Standards – WPF, XAML, MVVM, LINQ, TAP
- Templates and tools to streamline development
- Releases are in synch with ArcGIS Pro
- Online guides, code samples and other resources
Visual Studio

- VS 2015 and VS 2017
  - All editions supported – including free Community Edition
- Install from the Visual Studio Marketplace
- VSIX packages for installation
Many Resources

- **SDK home page** – pro.arcgis.com – “SDK” tab
- **DevLabs** – Easy to follow training labs
- **Documentation Wiki** – extensive documentation
- **Community Samples** – ready to use code solutions
- **Snippets** – code snippets by functional area
- **GeoNet Pro SDK Group** – developer community
- **API Reference** – full API reference
- **FAQ** – answers to common questions
- **Videos** – from the SDK Team
- **Blog posts** – focused on the Pro SDK
Demos

- Pro SDK DevLabs
- Build your first add-in
- Create a map identification tool
For Questions and Follow-up

- Come by the ArcGIS Pro Area in the Showcase
- SDK tab on the ArcGIS Pro main page:
  - Got to pro.arcgis.com
- Pro SDK questions and feedback
  - ArcGIS Pro SDK Group on GeoNet
ArcGIS Pro SDK Group on GeoNet

- Collaborate with other Pro SDK developers and Esri staff
- Ask questions and search on threads
- Provide your feedback on the SDK
Esri Developer Summit 2018

• Many Pro SDK offerings at Dev Summit:
  - 12 Technical Sessions
  - 4 Demo Theater Sessions
  - New Getting Started Hands-On Workshop – Thursday
  - ArcGIS Pro Area in the Esri Showcase

Go to esri.com/devsummit
Getting Started with the ArcGIS Pro SDK for .NET
Thursday, March 08, 9:00 am - 3:30 pm
This new hands-on training workshop will introduce you to ArcGIS Pro SDK concepts, helpful tips and practical steps to help you get started developing add-ins to extend ArcGIS Pro. Participants will walk through topics with the workshop instructor and then work through exercises using their own device with the Pro SDK and the Microsoft Visual Studio development environment. Topics will include:

- Pro SDK overview, online resources and community samples
- Starting with DAML and UI customization
- Basic solution configuration development
- Working with common SDK patterns

Prerequisites: This course assumes that participants have basic experience developing Windows applications using Microsoft Visual Studio 2015 or 2017 and .NET, as well as a few months of experience working with ArcGIS Pro.

Workshop participants must bring their own device, pre-installed with ArcGIS Pro 2.1 and Microsoft Visual Studio 2015 or 2017.
Questions

Please fill out our survey

Thank you!
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<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>Tue, Mar 06</td>
<td>1:00 pm - 2:00 pm</td>
<td>An Overview of the Geodatabase API</td>
<td>Mojave Learning Center</td>
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<td>2:30 pm - 3:30 pm</td>
<td>Beginning Pro Customization and Extensibility</td>
<td>Primrose A</td>
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<td>5:30 pm - 6:30 pm</td>
<td>Beginning Editing and Editing UI Patterns</td>
<td>Mojave Learning Center</td>
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<tr>
<td>Wed, Mar 07</td>
<td>10:30 am - 11:30 am</td>
<td>Mapping and Layout</td>
<td>Pasadena/Sierra/Ventura</td>
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<tr>
<td></td>
<td>1:00 pm - 2:00 pm</td>
<td>Advanced Pro Customization and Extensibility</td>
<td>Santa Rosa</td>
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<tr>
<td></td>
<td>2:30 pm - 3:30 pm</td>
<td>Pro Application Architecture Overview &amp; API Patterns</td>
<td>Mesquite G-H</td>
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<td>Advanced Editing and Edit Operations</td>
<td>Santa Rosa</td>
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<td>Thu, Mar 08</td>
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<td>Getting Started Hands-On Training Workshop</td>
<td>Mojave Learning Center</td>
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<td>Working with Rasters and Imagery</td>
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<td>Fri, Mar 09</td>
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<td>An Overview of the Utility Network Management API</td>
<td>Mesquite G-H</td>
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### ArcGIS Pro SDK for .NET Demo Theater Sessions

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<td>Demo Theater 1 - Oasis 1</td>
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<td>Custom States and Conditions</td>
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<td>New UI Controls for the SDK</td>
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<td>Raster API and Manipulating Pixel Blocks</td>
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### ArcGIS Pro Road Ahead Sessions

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<td>4:00 pm – 5:00 pm</td>
<td>ArcGIS Pro: The Road Ahead</td>
<td>Oasis 4</td>
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<td>ArcGIS Pro: The Road Ahead</td>
<td>Primrose B</td>
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