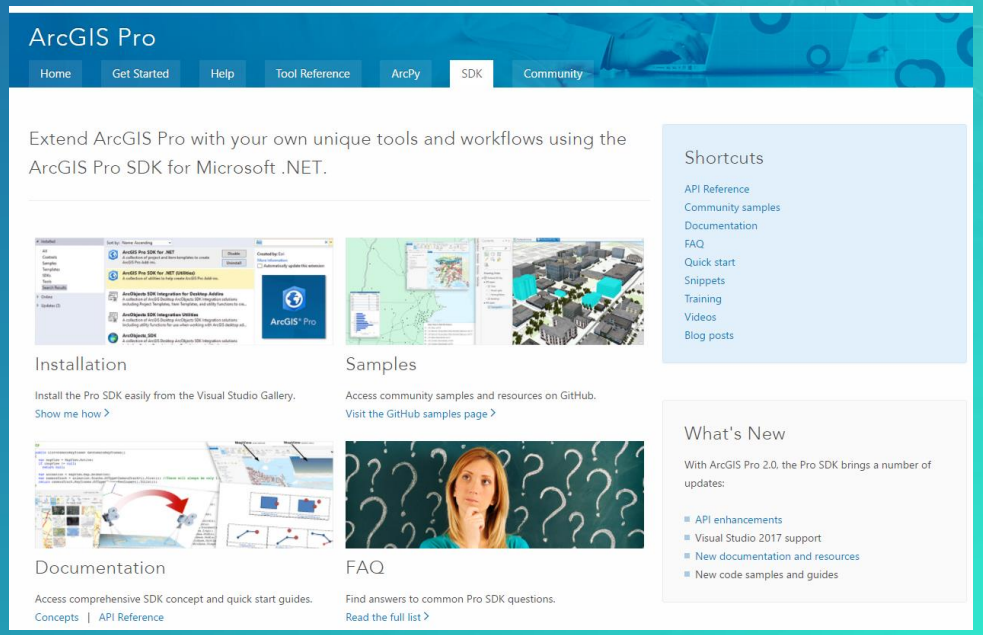
Getting Started with ArcGIS Pro SDK Add-Ins and Configurations

Christopher Zent

Agenda

- Introduction – 5 minutes
- Add-In Demos – 10 minutes
- Solution Configurations – 5 minutes
- Configuration Demos – 10 minutes
- Q&A and wrap-up – 15 minutes

Microsoft .NET

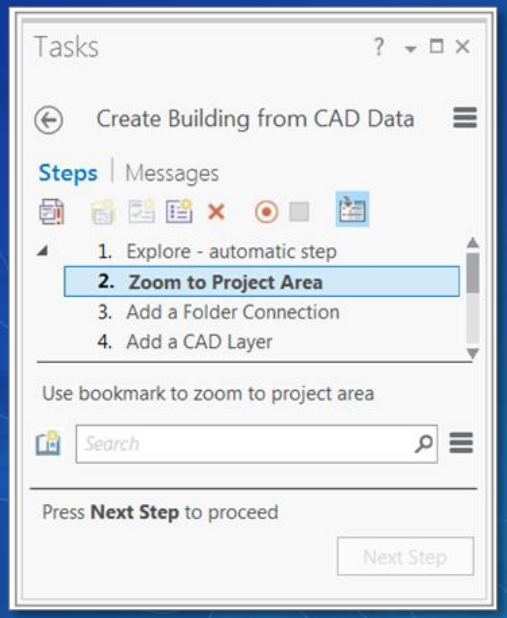


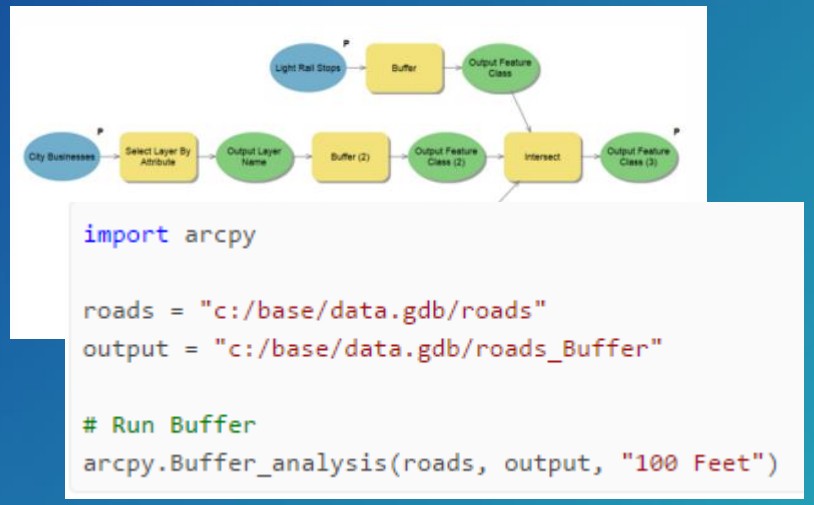
Extending ArcGIS Pro

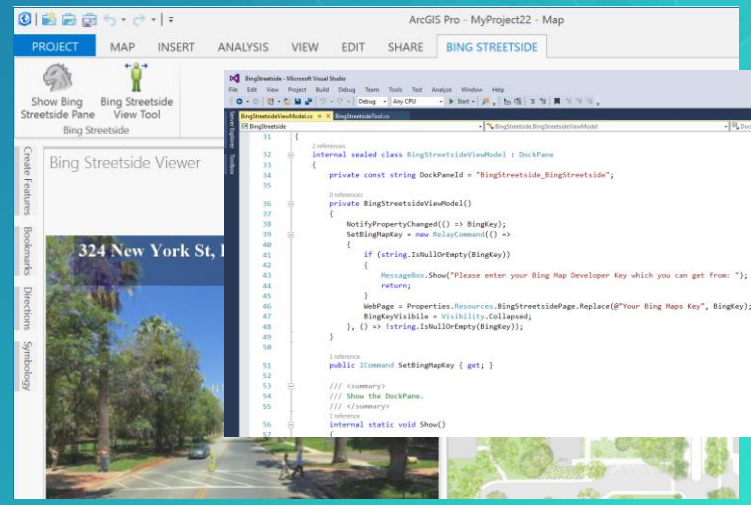
Three ways to configure and extend Pro

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







python™

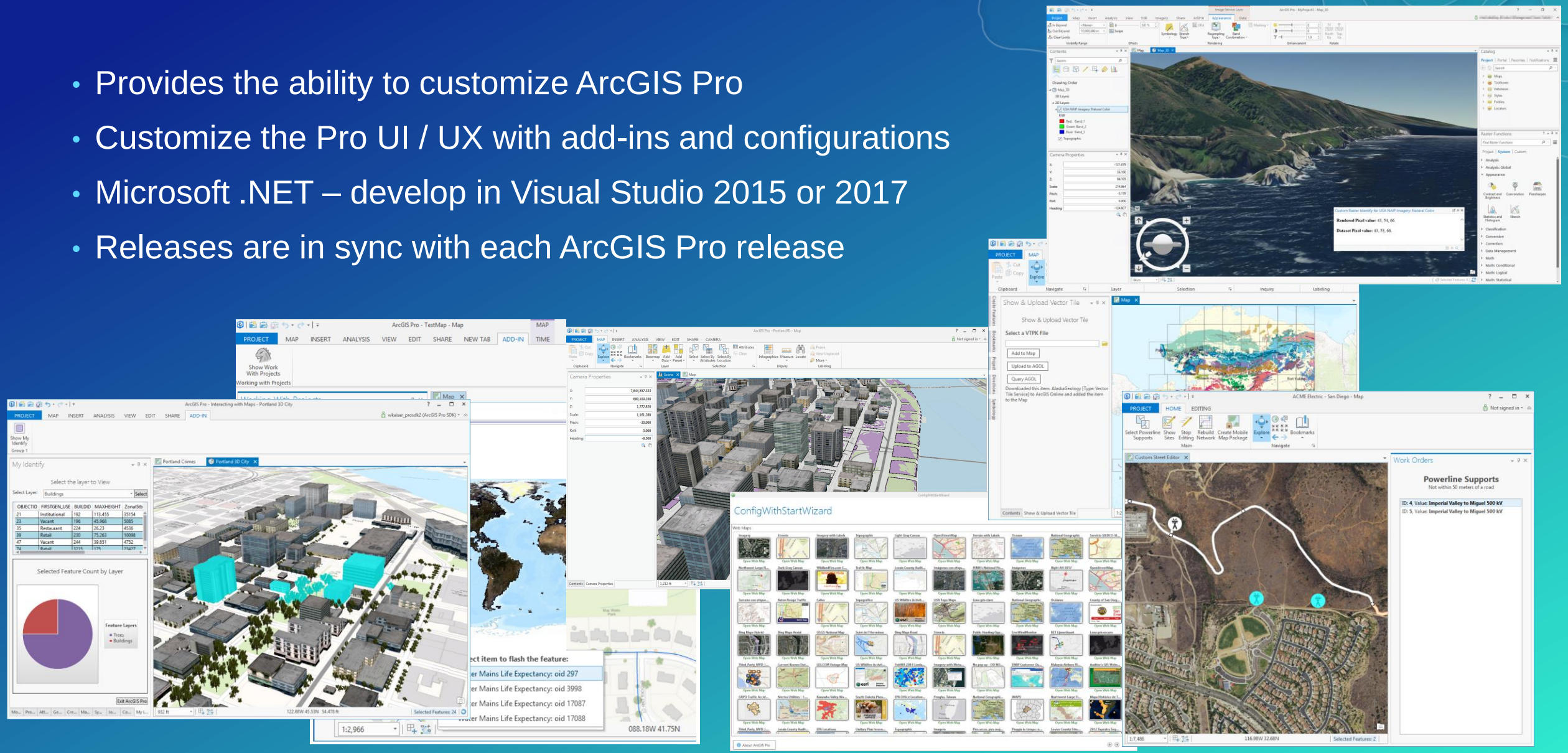
Microsoft .NET

ArcGIS Pro SDK for .NET

Build your own unique tools and workflows

ArcGIS Pro SDK for Microsoft .NET

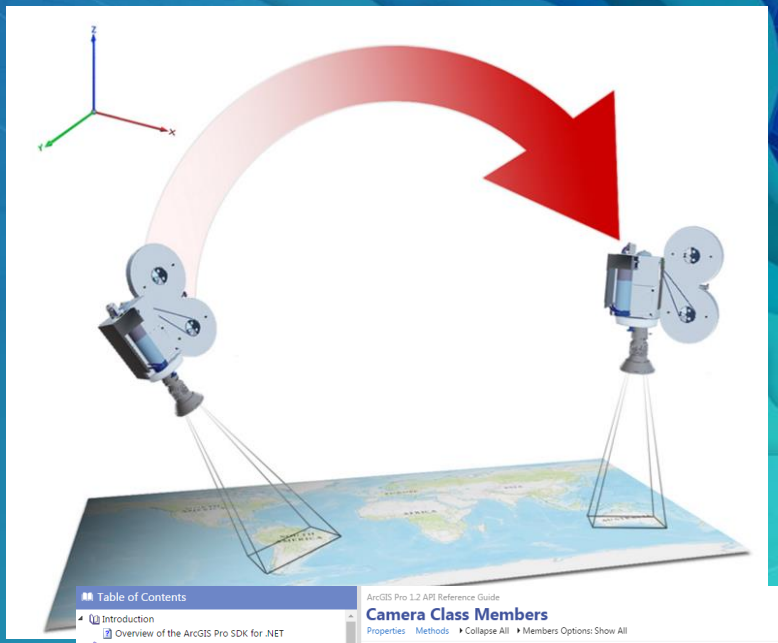
- Provides the ability to customize ArcGIS Pro
- Customize the Pro UI / UX with add-ins and configurations
- Microsoft .NET – develop in Visual Studio 2015 or 2017
- Releases are in sync with each ArcGIS Pro release

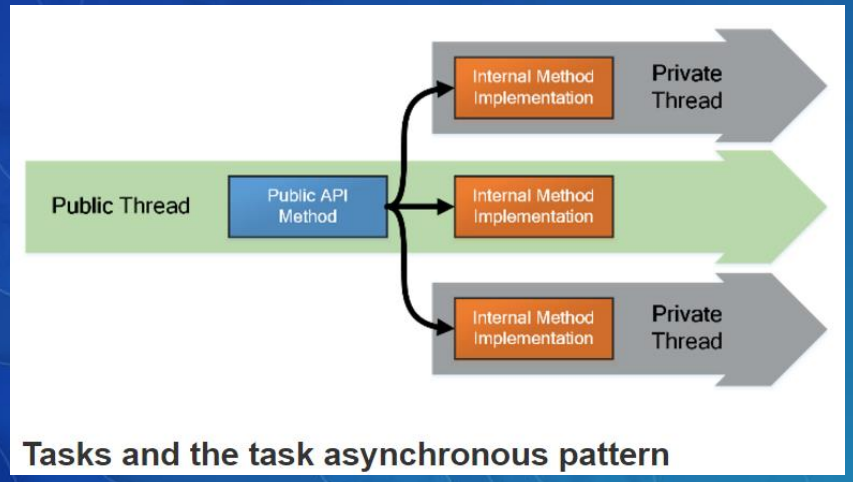


ArcGIS Pro SDK for Microsoft .NET

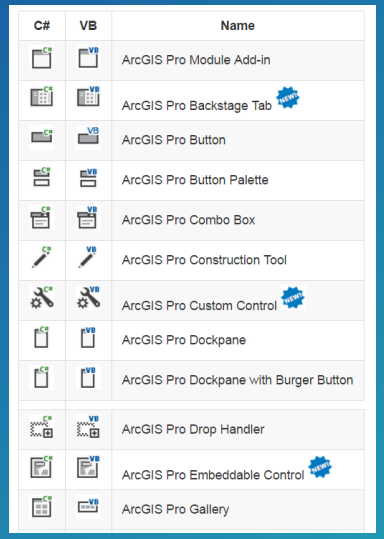
- Desktop Standards – WPF, XAML, MVVM, LINQ, TAP, etc.
- Modern, asynchronous development framework
- Templates and tools to streamline development
- Online guides, code samples and other resources

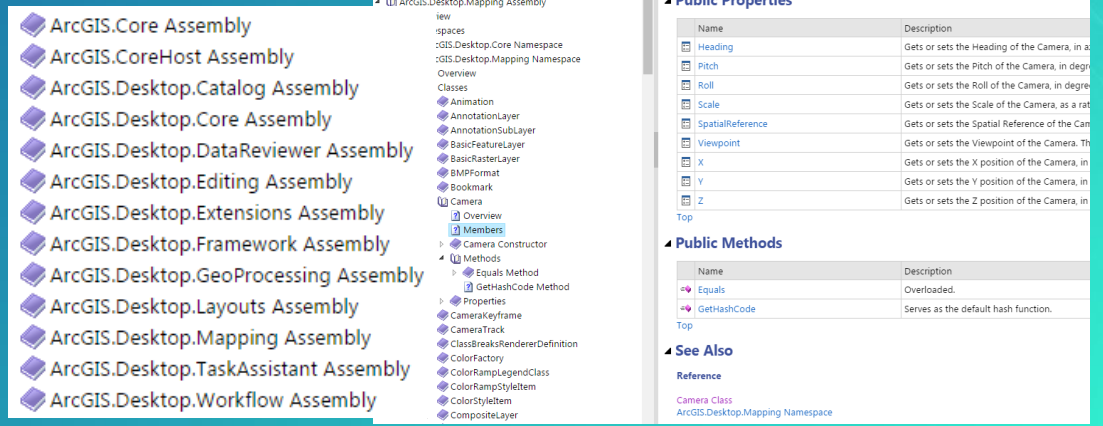
- Custom Editing, Map exploration, Data management, Raster management and much more!





Tasks and the task asynchronous pattern





Pro SDK Add-Ins

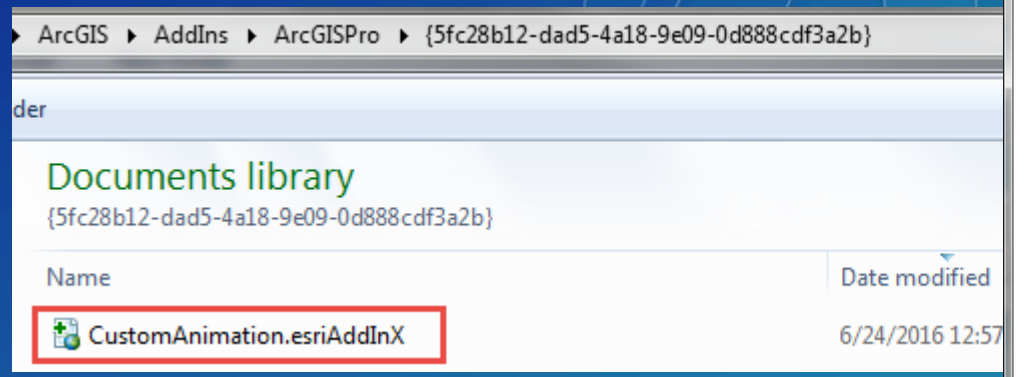
- Single zip file package
- Easy to share and distribute
- Can be secured

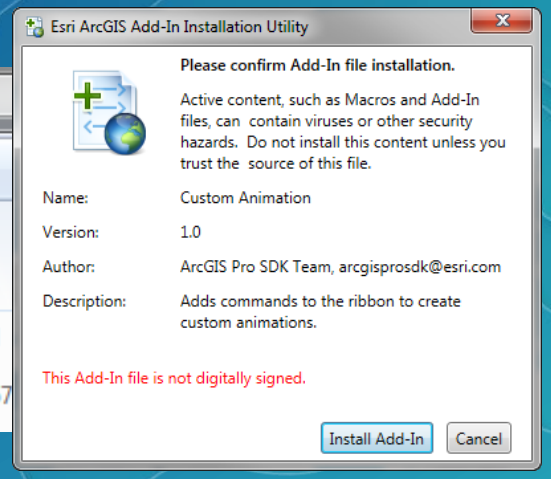
Sample add-in file contents

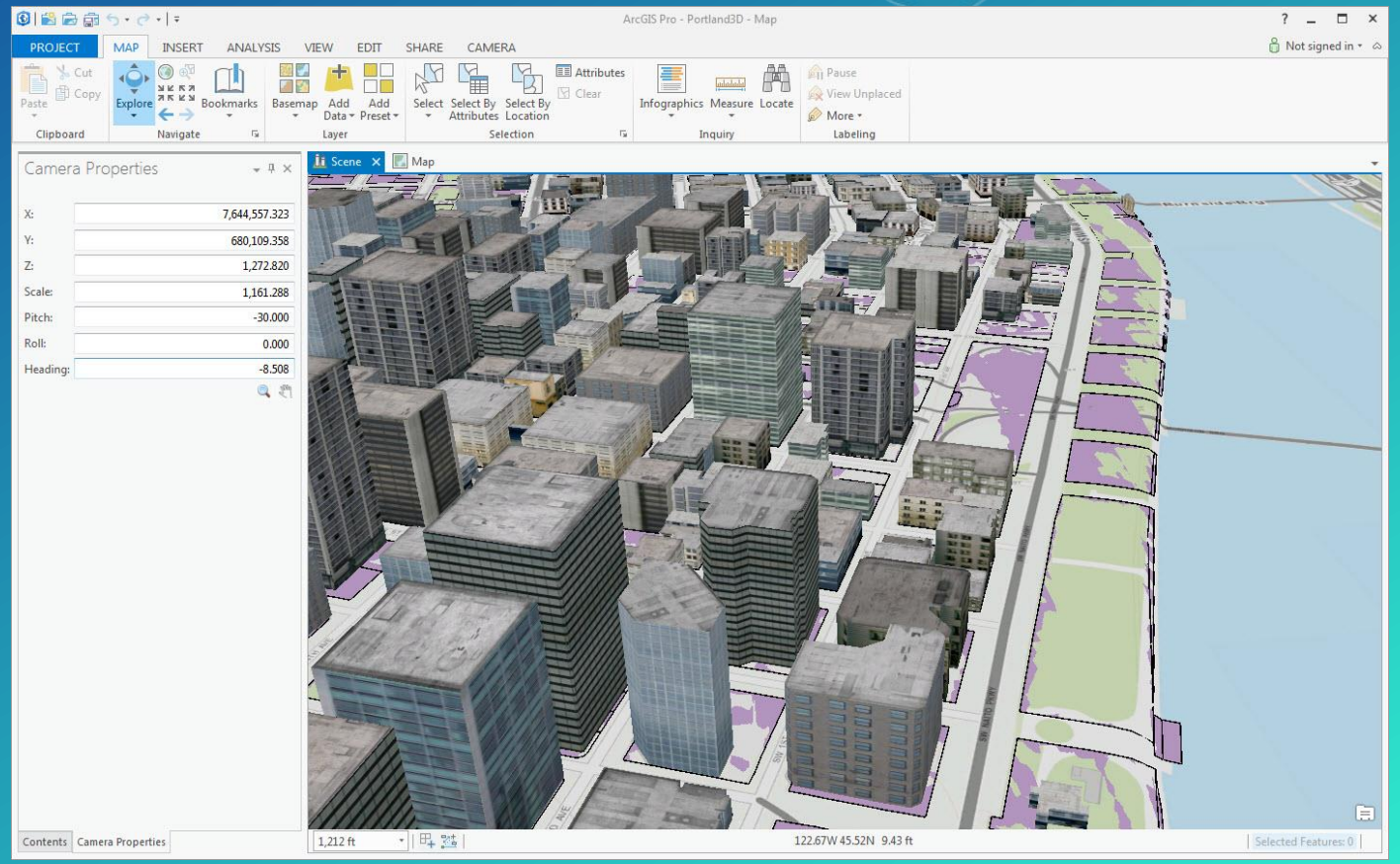
Name	Type
Images	File folder
Install	File folder
Config.daml	DAML File

Sample contents of an install folder

Name	Type
CustomAnimation.dll	Application extension
CustomAnimation.dll.config	XML Configuration File
CustomAnimation.pdb	VisualStudio.pdb.12.0
CustomAnimation.xml	XML Document

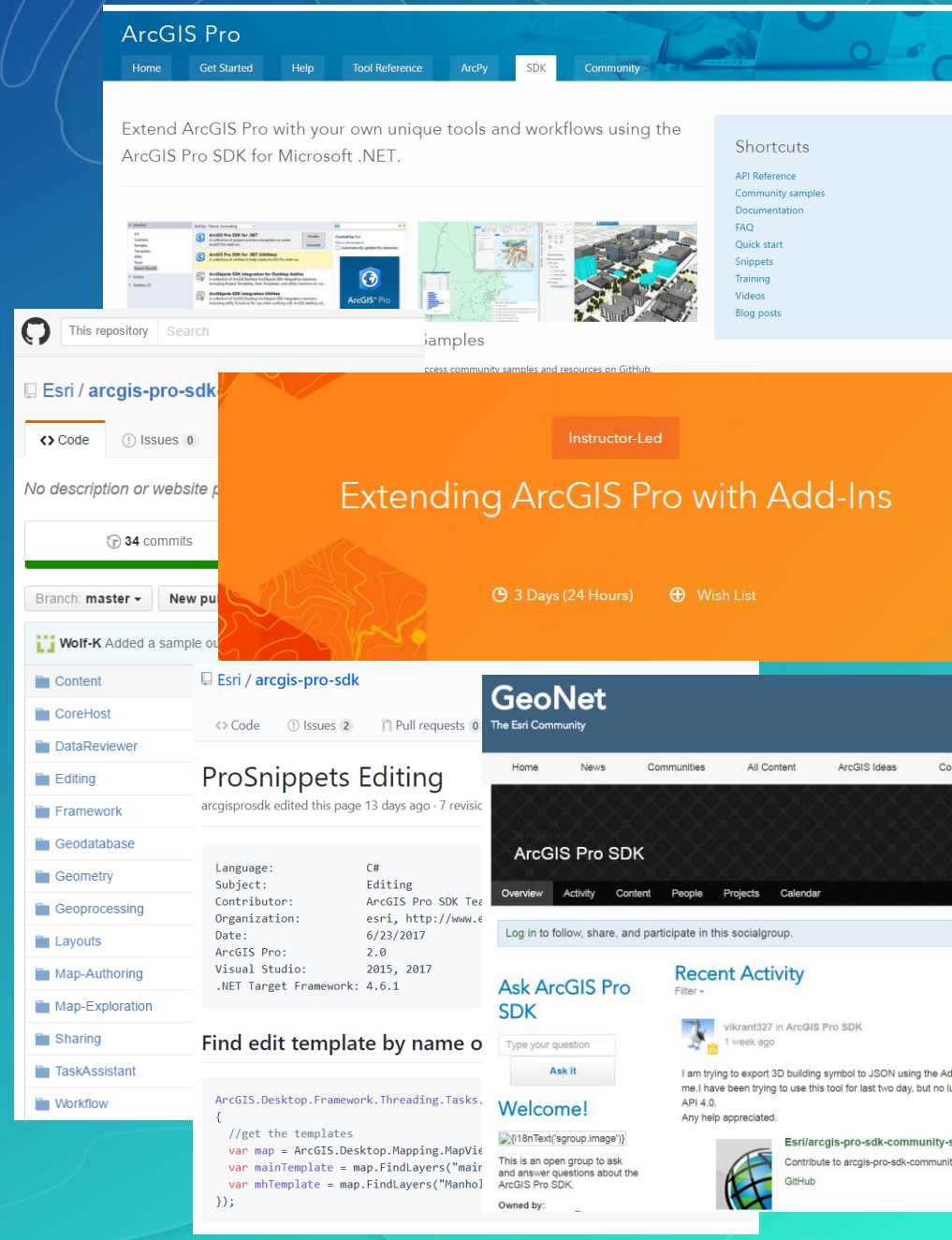






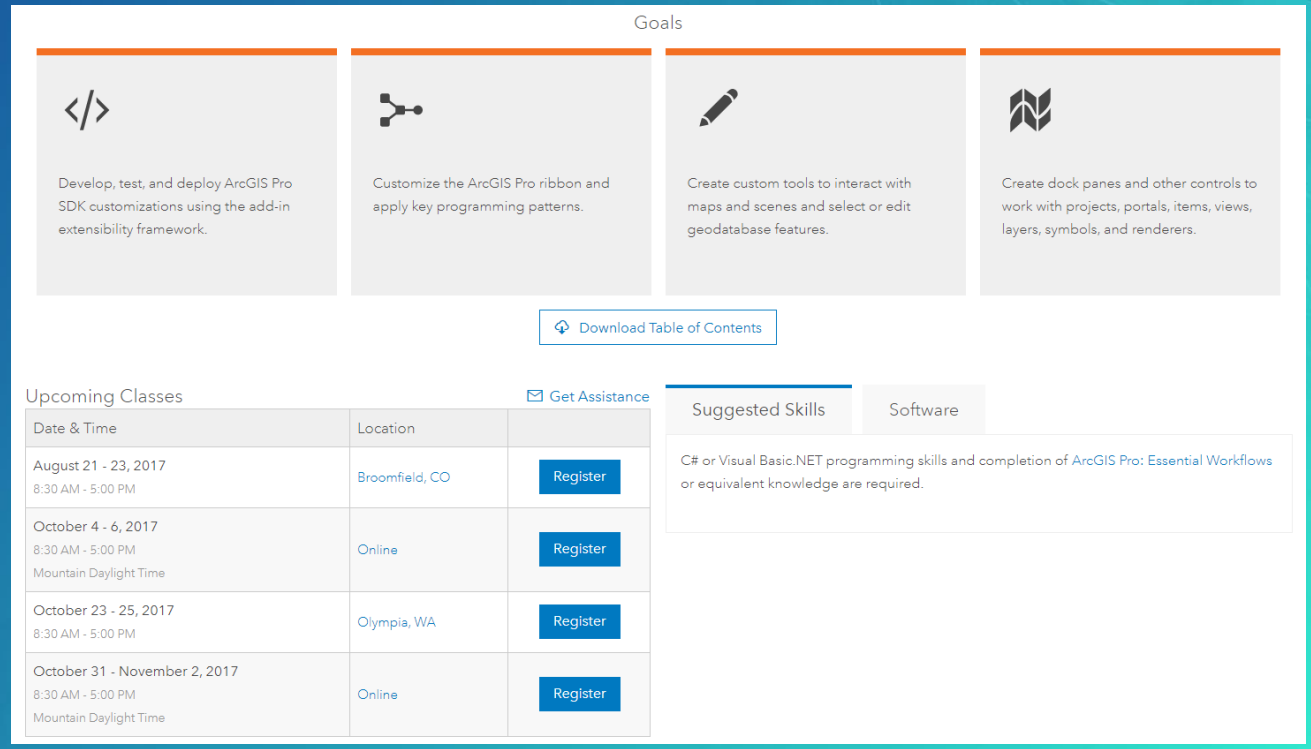
Many Pro SDK Resources

- SDK home page – main resource page
- Esri Training – instructor-led Esri training course
- Documentation Wiki – primary documentation site with concept and guide docs, and much more
- Community Samples – ready to use code solutions categorized by functional area
- Snippets – code snippets by functional area
- GeoNet Pro SDK Group – developer community
- API Reference – full API reference
- FAQ – answers to common questions
- Blog posts – focused on the Pro SDK



Pro SDK Training

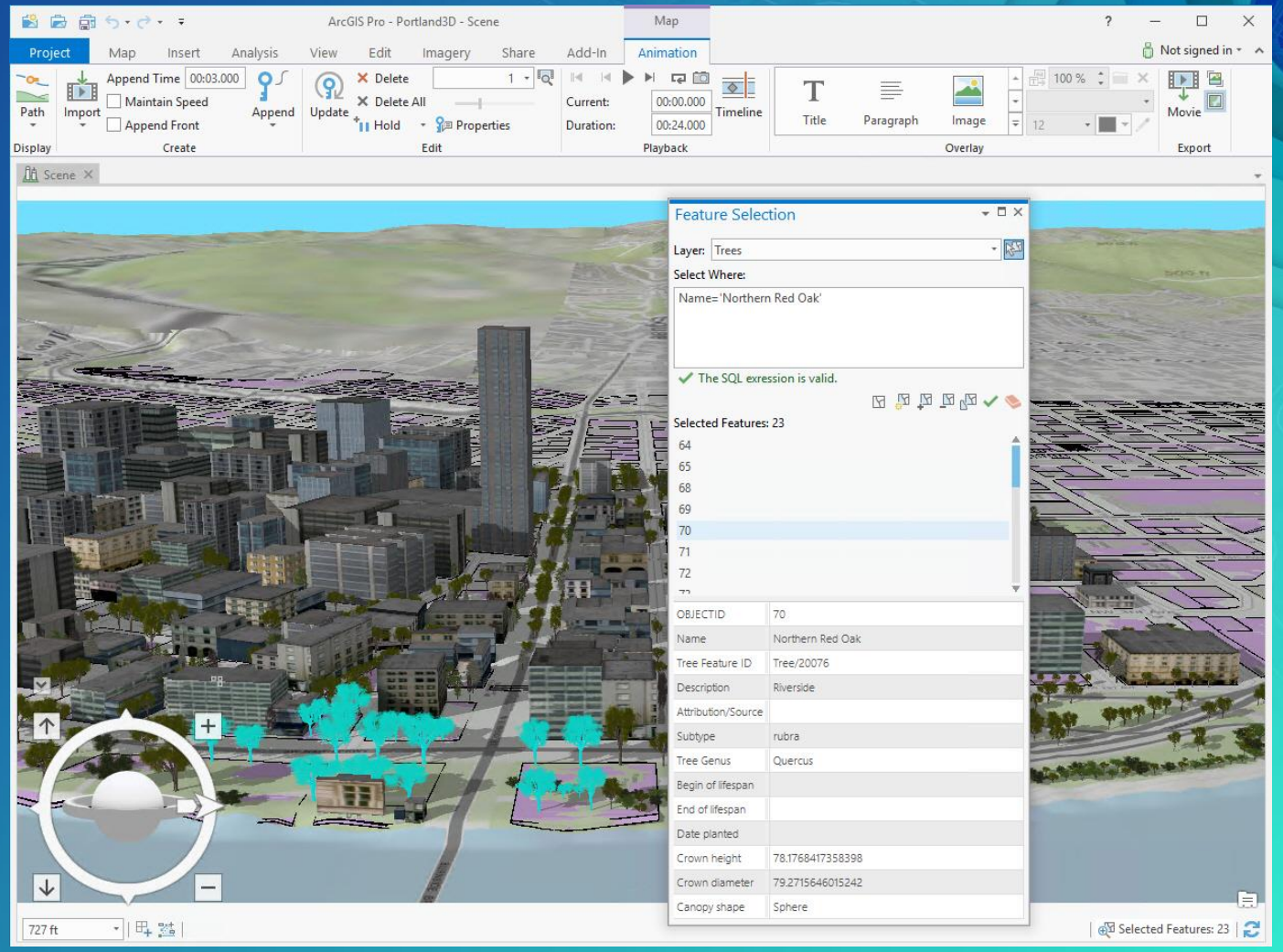
- Extending ArcGIS Pro with Add-Ins – Esri Instructor-led training course on the Pro SDK
- Great way to get a comprehensive introduction
- Online offerings – very interactive and productive
- Esri.com/training

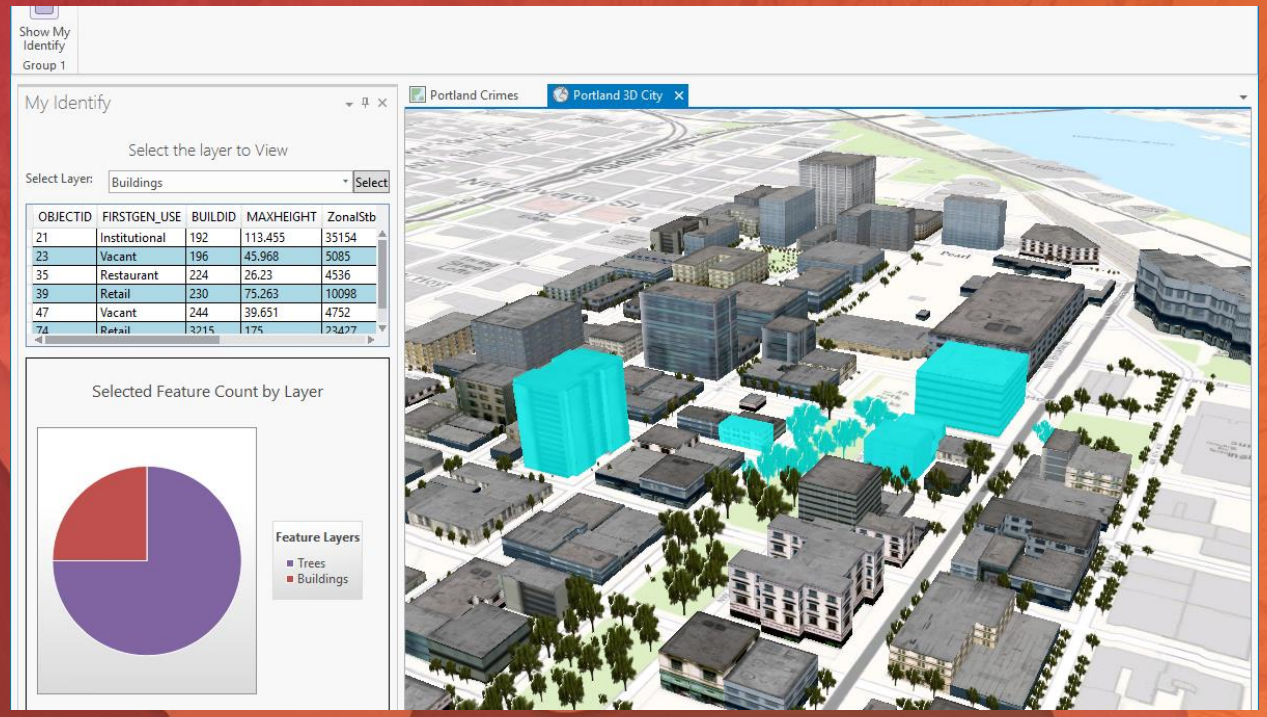


ArcGIS Pro SDK 2.0

New:

- API enhancements
- Styling updates
- Visual Studio 2017 Support
- New code samples and guides



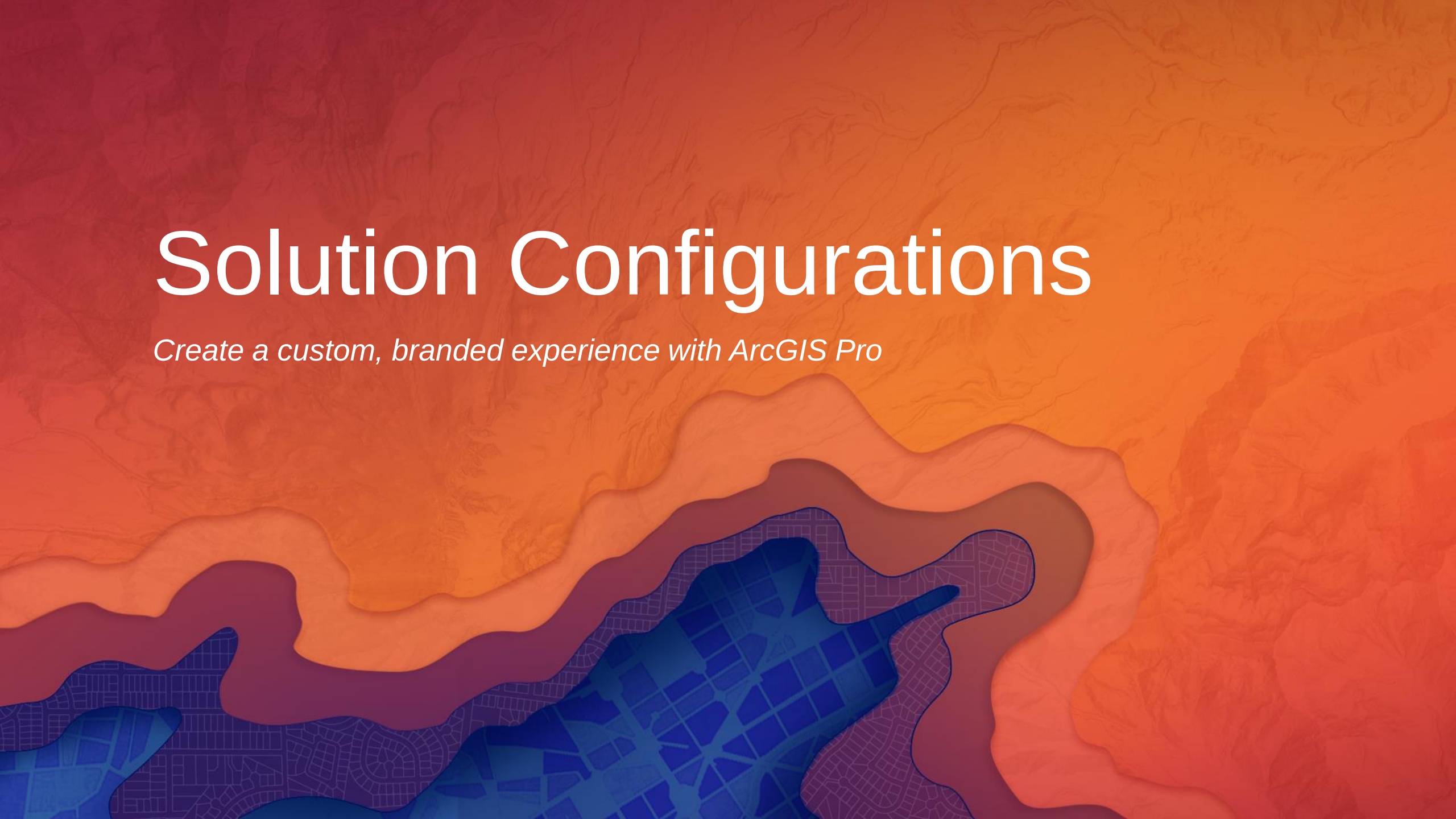


Add-In Demos

- Building your first add-in
- Creating a feature construction tool
- Online resources

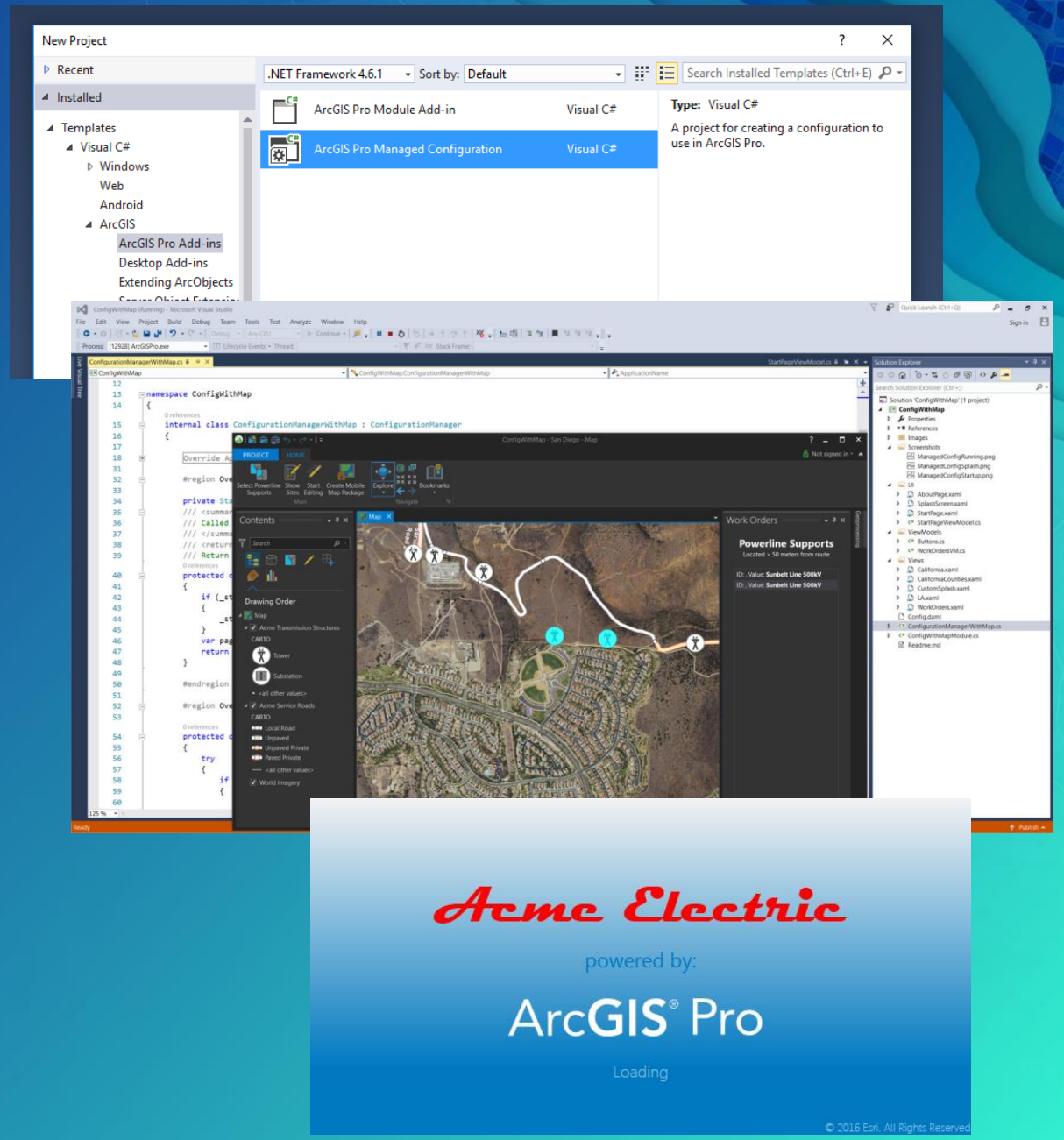
Solution Configurations

Create a custom, branded experience with ArcGIS Pro



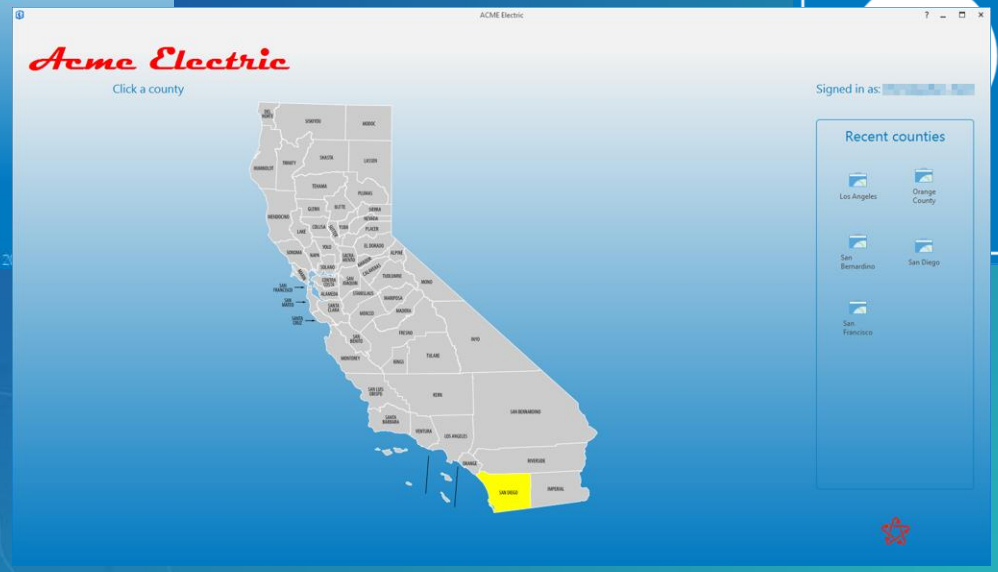
Solution Configurations

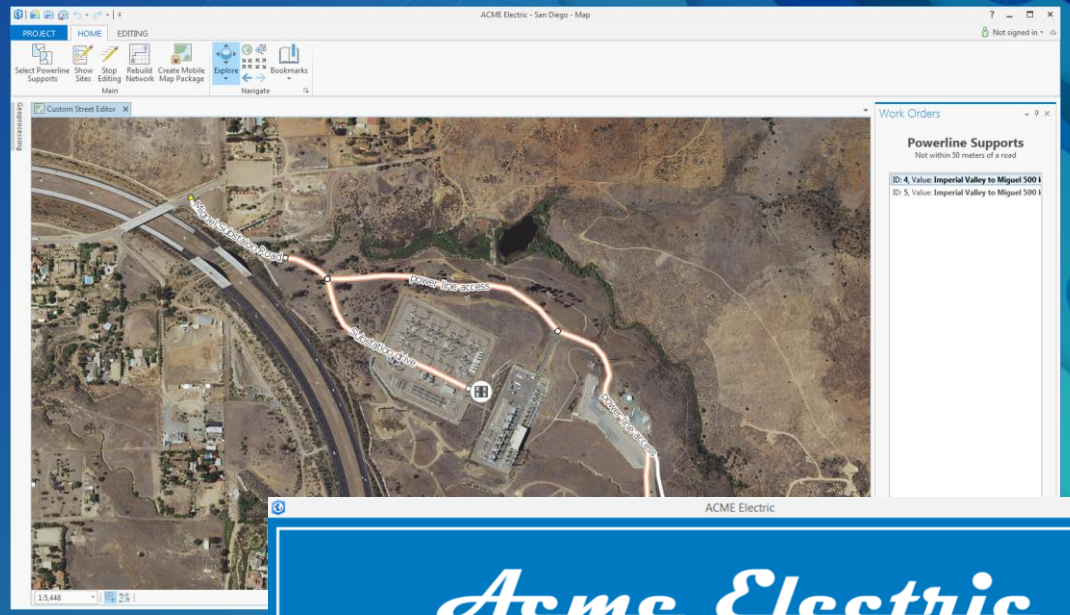
- Configurations
  - Another add-in pattern / template
  - Solution branding of the Pro UI
  - Conditional or role-based customization
- Documentation and Resources
  - ProConcepts
  - ProGuide
  - ConfigurationManager API reference
  - Intro blog posts and videos

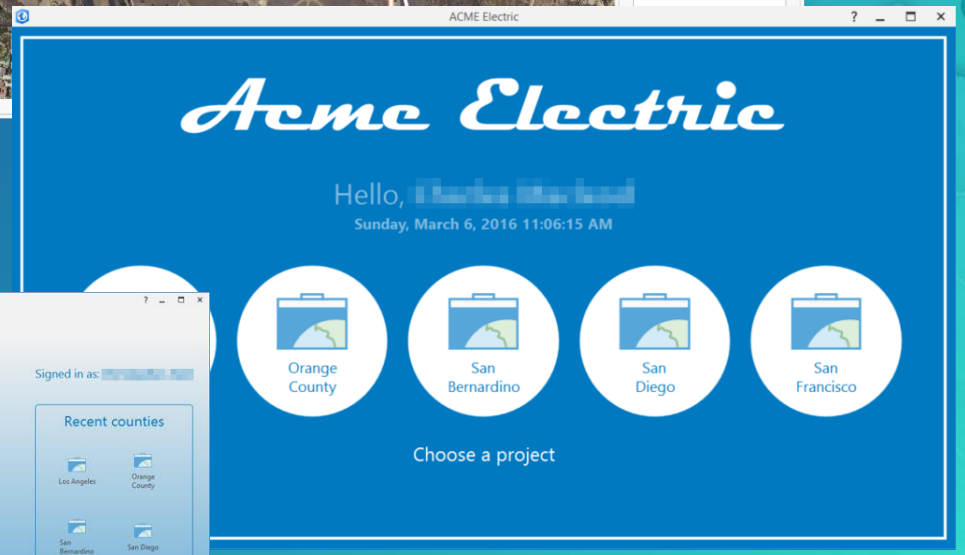


Configurations

- Customized:
  - Splash screen
  - Start up page view
  - UI based on a user role / workflow

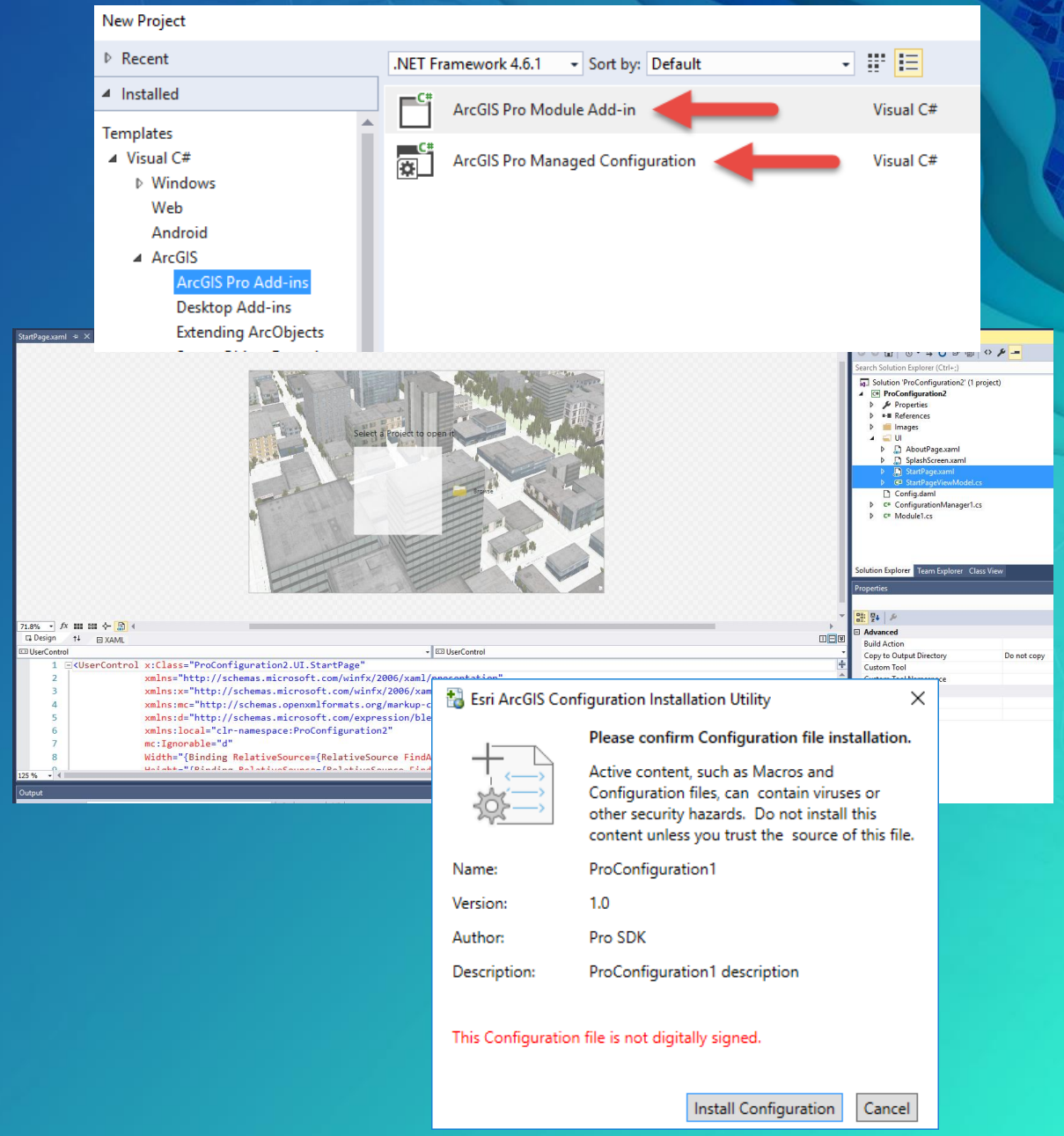


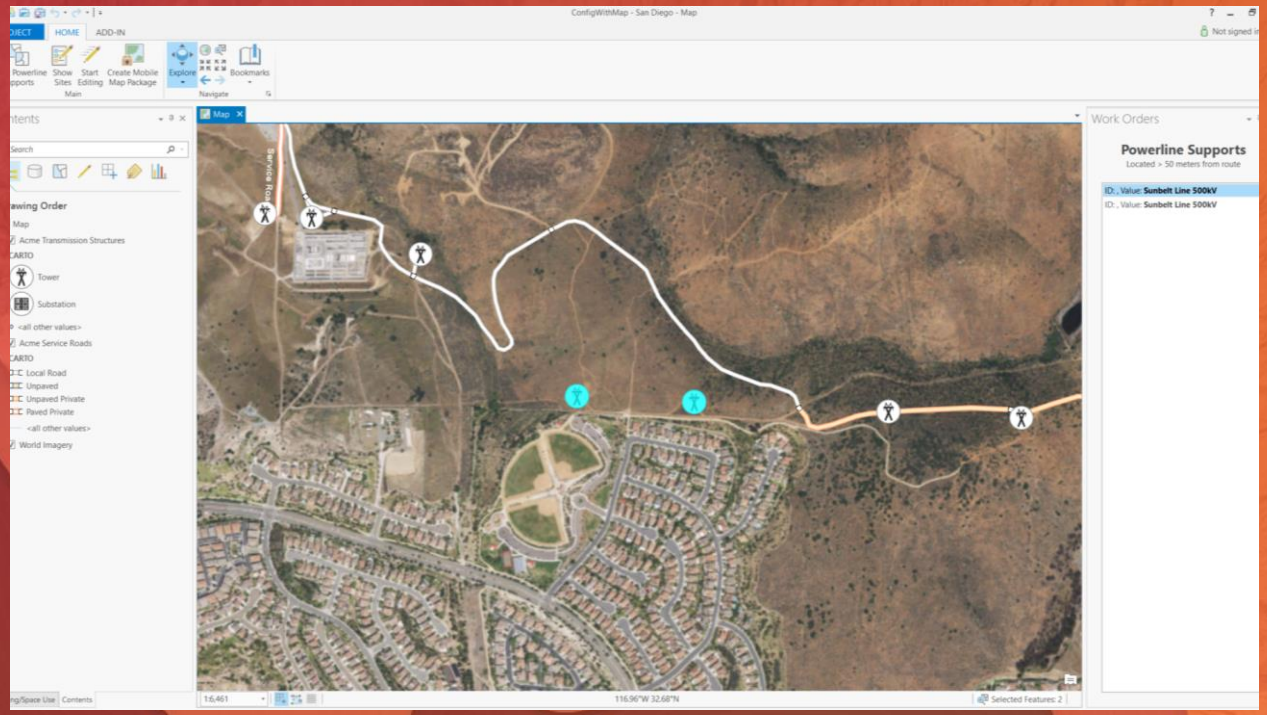




Pro SDK Add-ins and Configurations

- Similarities
  - Built from SDK project templates
  - Compiled and deployed with the standard double-click installation
  - Both allow for customization of the UI
- Differences
  - Add-in
    - Multiple add-ins per Pro session
  - Configuration
    - One configuration per Pro session – intended for larger, focused solution experience
    - Custom start-up experience – splash screen and startup page, conditional start-up logic, etc.



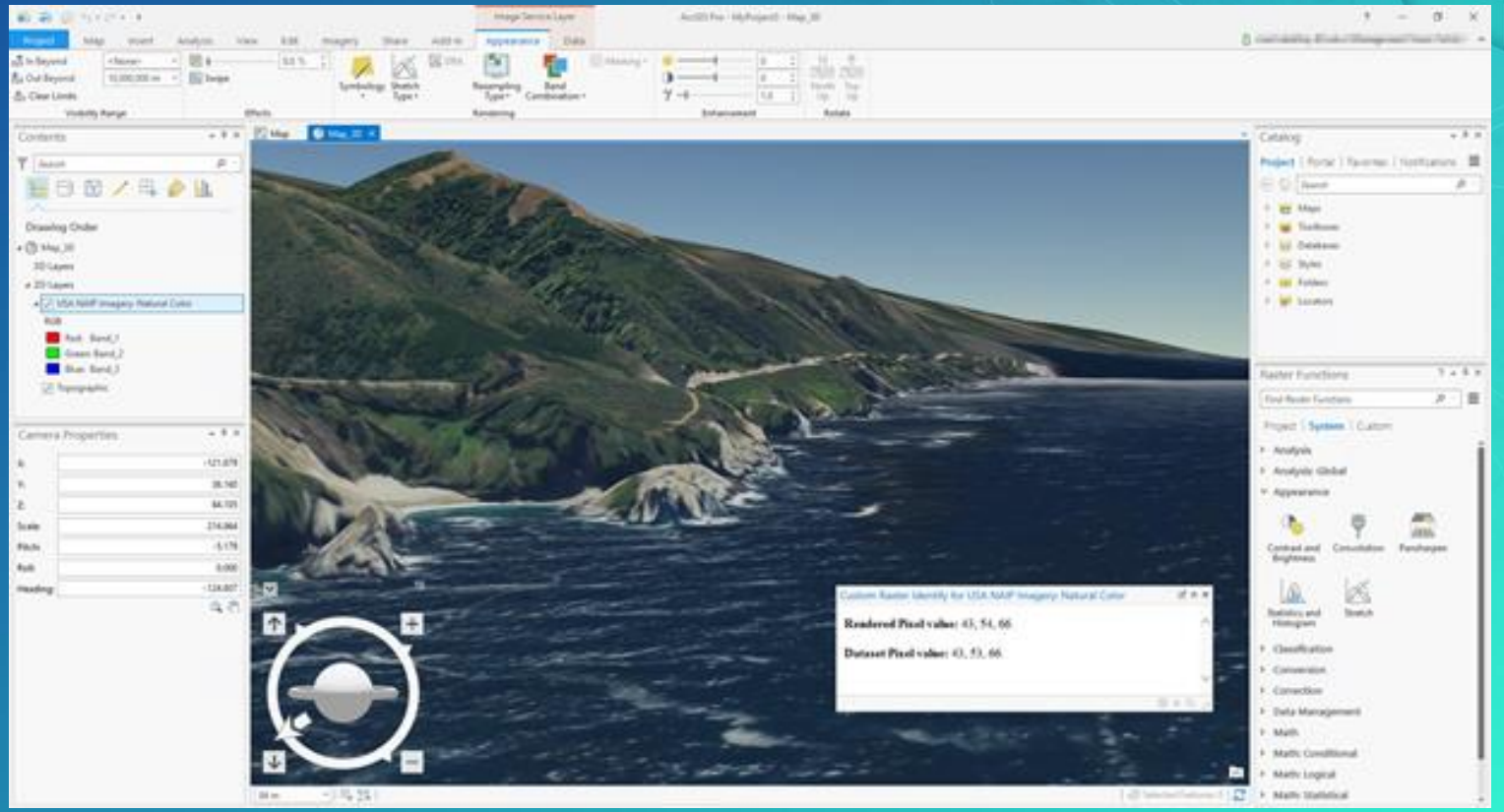


Configuration Demos

- Configuration project template
- Online Resources
- ConfigWithMap sample
- ConfigWithStartWizard sample

Takeaways

- The Pro SDK is ready for you to extend Pro with custom tools and solutions
- Extensive learning resources
- Start working with Pro SDK 2.0
- **We value your feedback!**



Pro SDK Technical Workshops – Remaining at UC

ArcGIS Pro SDK for .NET: UI Design and MVVM

- Wednesday, July 12, 8:30 am – 9:45 am. Location: SDCC – Room 33 A

ArcGIS Pro SDK for .NET: Configurations

- Wednesday, July 12, 1:30 pm – 2:45 pm. Location: SDCC – Room 32 A

Esri Developer Summit Europe

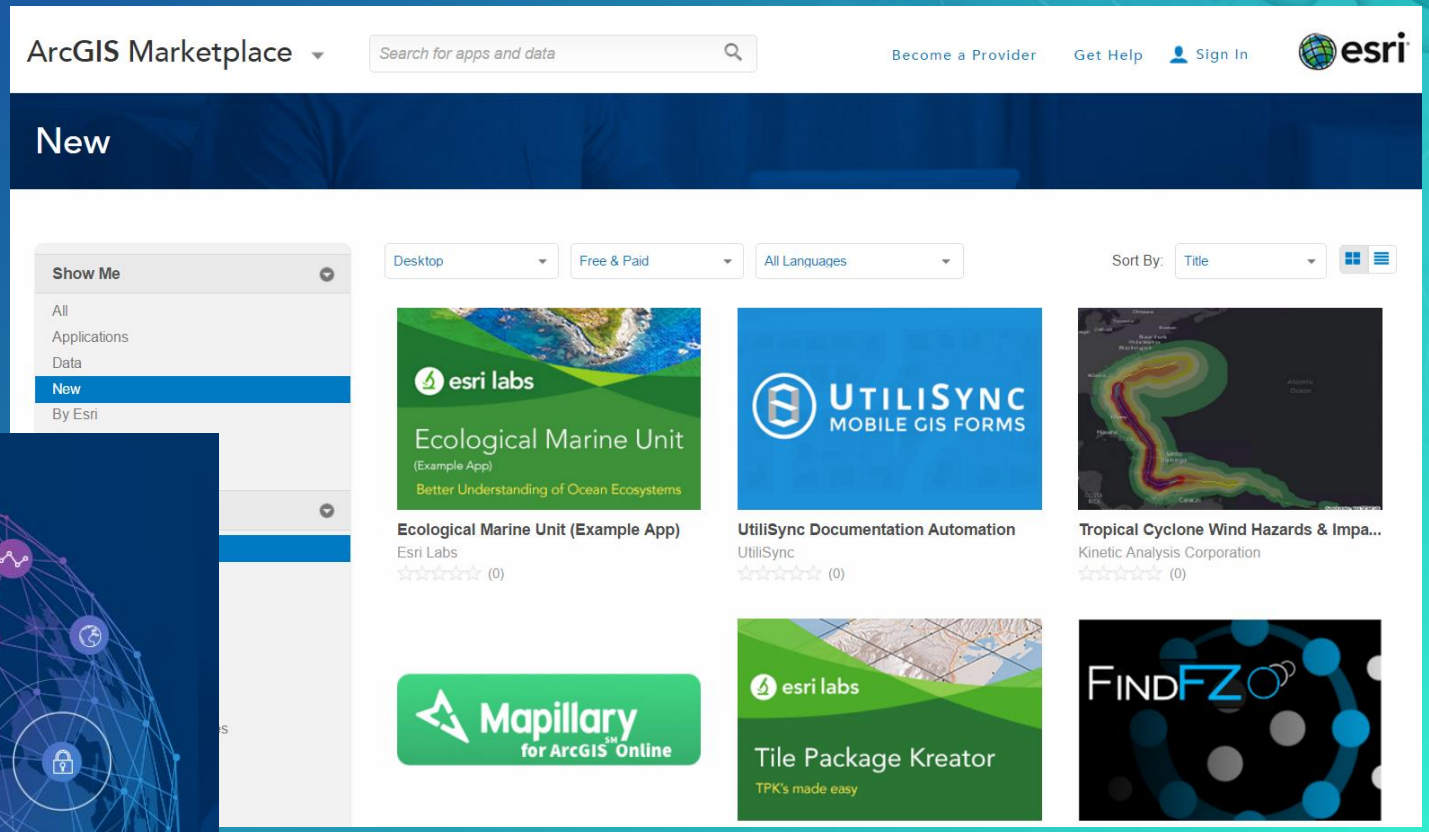
October 24-26 Berlin Congress Center Germany

- Pre-Summit Hands-On Training
  - Introduction to the ArcGIS Python API
  - Introduction to the ArcGIS Pro SDK for .NET
  - Introduction to the ArcGIS API for JavaScript
  - ArcGIS Developer Workshop for Esri Distributors and Esri Partners
- Technical Sessions
  - Over 60 sessions on ArcGIS Runtime, Enterprise, Online, Python, JavaScript, Desktop, and Pro
- User Presentations
- Speedgeeking
- Exhibit and Networking Opportunities for Partners

ArcGIS Marketplace and Pro Add-Ins

A new way to get your Pro Add-Ins into the Marketplace

- Pro add-in sales directly from the Marketplace
- Contact your partner manager for next steps
- Visit Marketplace Area in Showcase



ArcGIS Ideas

- Visit ideas.arcgis.com with your ArcGIS Pro ideas:
  - Vote
  - Comment
  - Submit new ideas

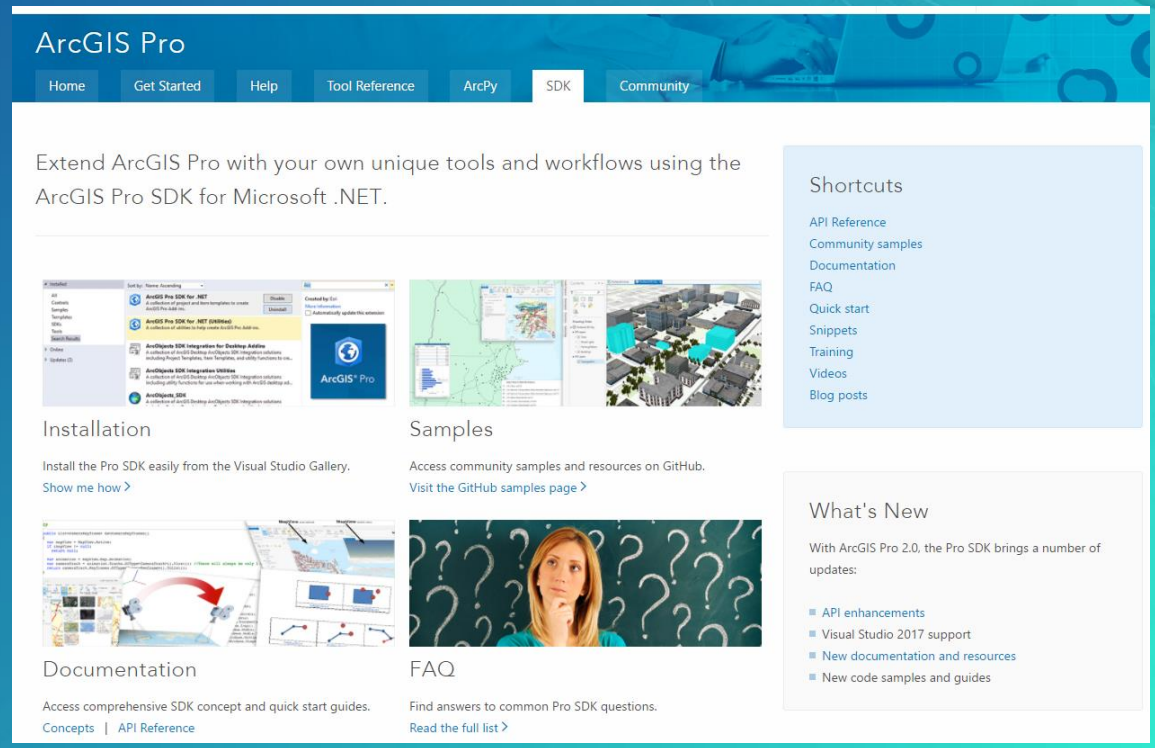
- The ArcGIS Pro team wants your feedback!
  - Regular review
  - Your use case matters
  - Your ideas can result in new features for everyone

Put your
Ideas in Motion

Visit the ArcGIS Ideas space on GeoNet

For Questions and Follow-up

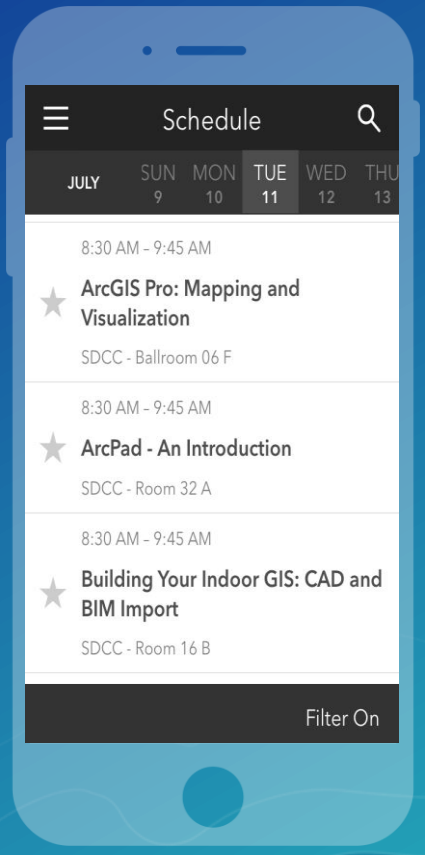
- Come by the ArcGIS Pro Area in the Showcase
- SDK tab on the ArcGIS Pro main page:
  - pro.arcgis.com
- Pro SDK feedback – czent@esri.com



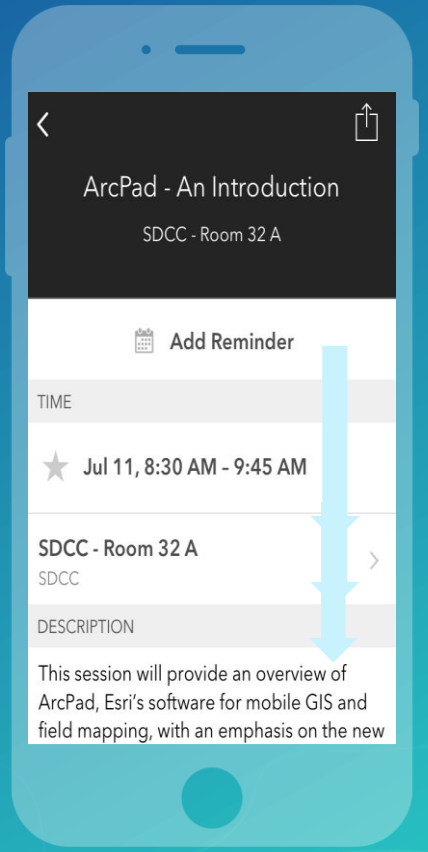
Please Take Our Survey on the **Esri Events App!**

Download the Esri Events app and find your event

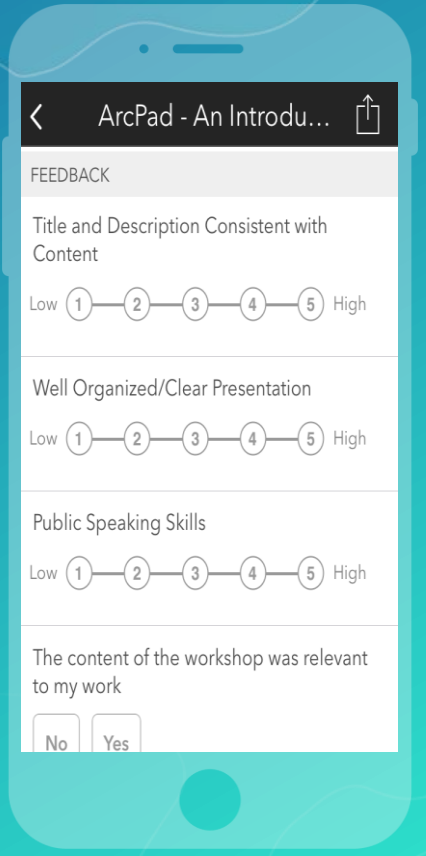
Select the session you attended



Scroll down to find the survey



Complete Answers and Select "Submit"



Thank you!

Questions?

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