



# 2017 Esri DevSummit Conference

Palm Springs Convention Center  
March 7–10, 2017



# Tuesday, March 7, 2017

	8:30AM–11:45AM	11:45AM–1:00PM	1:00PM–2:00PM	2:30PM–3:30PM	4:00PM–5:00PM	5:30PM–6:30PM
Oasis 4	Plenary Session—Oasis 3–4	Hosted Lunch—Esplanade	Inside Scoop: Navigating Your Way through ArcGIS API for JavaScript Sessions	Insights for ArcGIS		
Primrose B			ArcGIS GeoEvent Server: Internet of Things (IoT)	ArcGIS API for JavaScript: What's New	ArcGIS API for JavaScript: Getting Started	ArcGIS GeoEvent Server: An Introduction
Primrose C–D			ArcGIS Enterprise: An Introduction	ArcGIS Pro SDK for the Microsoft .NET Framework: UI Design and MVVM	ArcGIS Enterprise: What's New	ArcGIS API 4.x for JavaScript: Programming Patterns and API Fundamentals
Pasadena–Sierra–Ventura			ArcGIS Runtime: An Introduction to the API and Architecture	ArcGIS Runtime: Working with Your Portal	ArcGIS Runtime: Migrating from ArcGIS Engine	Best Practices for 3D Scene Services
Smoketree A–E			ArcGIS Online: An Overview for Developers	Administering Your Portal for ArcGIS	ArcGIS Online: Managing Data	Harnessing the Power of Python in ArcGIS Using the Conda Distribution
Primrose A			Sharing Web Layers and Services in the ArcGIS Platform	Accessing Your Enterprise Geodatabase Using SQL	CSS for Geographers	ArcGIS Pro SDK for the Microsoft .NET: Framework Map Authoring and Exploration
Mojave			Python: Map Automation in ArcGIS Pro	Python: Developing Geoprocessing Tools	ArcGIS Runtime: Building Cross-Platform Apps	Administering Your Enterprise Geodatabase Using Python
Mesquite C			Introduction to Esri's zLAS I/O Library and API for Lidar Data	Leveraging 3D across the ArcGIS Platform	ArcGIS API for JavaScript: Tips and Tricks for Developing and Debugging Apps	ArcGIS Runtime SDKs: Building a Routing Application
Mesquite B			Building Public and Street Spaces with Esri CityEngine	ArcGIS Runtime: Building Great User Experiences	Parallel Python: Multiprocessing with ArcPy	Custom Elements and Shadow DOM: Cross-Framework Web Development
Mesquite G–H			Python: Working with Raster Data	Explorer for ArcGIS Sneak Peek	Indexed 3D Scene (I3S) Layers Specification	Customizing Open Data
Demo Theater 1			Big Data: Using ArcGIS with Apache Hadoop	To Be Announced—Please Check Online Agenda	ArcGIS Workflow Manager Web APIs: Getting Started	Bringing Your Data to Life in ArcGIS API for JavaScript: 3D Objects
Demo Theater 2			Using the File Geodatabase API	GeoBots: Making the World Accessible through Ambient Interfaces	Developing LRS Solutions with Esri Roads and Highways	Remotely Invoking ArcGIS Apps
			ArcGIS Workflows for Optimizing Image Management & Services in the Cloud	Ops Fu: Deploying Koop with Docker and Kubernetes	ArcGIS Maps for Adobe Creative Cloud: An Introduction	Choosing the Right Platform
Demo Theater 3			Getting Started with ArcGIS Pro SDK for Raster and Imagery	Tracking Engagement with ArcGIS Open Data	OpenStreetMap and ArcGIS: Mapping the Future	XAP a Map In Your App and Go Mobile with Xamarin
			Rounding Up the EMUs App for Android	Making Pop-ups	Bringing Your Data to Life in ArcGIS API for JavaScript: 3D Integrated Mesh and Point Cloud	Enabling High-Quality Printing in Web Applications
					Where's My Meeting? Indoor Navigation with Xamarin iOS	Story Maps: How to Tell Your Story Using Storytelling Apps

## Sponsors

### Diamond Sponsors



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### Wednesday Evening Special Interest Group (SIG) Meeting Sponsor



	10:30AM–11:30AM	1:00PM–2:00PM	2:30PM–3:30PM	4:00PM–5:00PM	5:30PM–6:30PM
Primrose B	Latest Innovations from Esri's Application Prototype Lab	Latest Innovations from Esri's Application Prototype Lab	Visualizing Big Data with ArcGIS API for JavaScript and WebGL	Automated Testing of Web Mapping Applications	Sponsored Session: Amazon Web Services—Introduction to Serverless Image Optimization Using Amazon Cloud (AWS Lambda)
Catalina-Madera	Web AppBuilder for ArcGIS: JavaScript Apps Made Easy	Web AppBuilder for ArcGIS: A Deep Dive into Enterprise Deployment	Web AppBuilder for ArcGIS: Customizing and Extending	Web AppBuilder for ArcGIS: Building 3D Apps	Web AppBuilder for ArcGIS: Advanced Development Tools and Techniques
Pasadena-Sierra-Ventura	Building Responsive Web Apps with ArcGIS API for JavaScript	3D Visualization with ArcGIS API for JavaScript	ArcGIS API for JavaScript: Creating Custom Layers and Layer Views	Choosing a JavaScript Framework in 2017	ArcGIS API for JavaScript: Building Mobile Web Apps
Primrose A	ArcGIS API for Python: Introduction to Scripting Your Web GIS	ArcGIS API for Python: Advanced Scripting	Effective Geodatabase Programming	Developing Cross-Platform Native Apps with AppStudio for ArcGIS (The Basics)	Developing Cross-Platform Native Apps with AppStudio for ArcGIS (Advanced)
Primrose C-D	Extending ArcGIS Server	ArcGIS Enterprise: Automating Installation and Configuration	ArcGIS Enterprise: Performance and Scalability Best Practices	ArcGIS Enterprise Security	User Experience and Interface Design for Map Apps
Smoketree A-E	Charts and Custom Visualizations Beyond the Map	Customizing ArcGIS API for JavaScript Widgets	Building Your First Web GIS	Real-Time Data and Big Data GIS at a Massive Scale	Using Frameworks with ArcGIS API for JavaScript
Mojave	ArcGIS Runtime SDK for Java: Building Apps	ArcGIS Runtime: Editing Your Data Online and Offline	Python: Working with Feature Data	Accessible Web Mapping Apps: ARIA, WCAG, and 508 Compliance	Exploring Virtual Reality (VR) with ArcGIS
Mesquite C	ArcGIS Runtime SDK for iOS and ArcGIS Runtime SDK for macOS: Building Apps	How The Netherlands Blew Up €68 Million	GIS and Automatic Object Recognition	Configurable Map Atlases: Combine the Best of ArcGIS Server and ArcGIS Online in GFW Map Builder	ArcGIS Pro SDK for the Microsoft .NET Framework: Integration with ArcGIS Online
Mesquite B	Designing Great UX/UI with Calcite Maps	Where Is Waldo? Integration/Synchronization Alternatives in the Complex IT Environment	Angular2 + ESRI JS 4.2 = A World of Endless Possibilities	Collaborative Dataset Management: A JavaScript App Built Using Angular-esri-map and Angular Material	Mapping with Alexa
Mesquite G-H	Leveraging OGC Capabilities of ArcGIS Online and Portal for ArcGIS	Supercharge Your ArcGIS App with (AMP Accelerated Mobile Pages) and AWS CloudFront	Tungjiasis eLibrary: A Web GIS App for Public Health	Using Esri in Military and Security Technology Environment	Integrating ArcGIS API for JavaScript with a Web Application Framework
San Jacinto	Integrating Open-Source Statistical Packages with ArcGIS Using Python and R	Operations Dashboard as a SharePoint Management Device	Building Automated Tests for Python Toolbox Tools	Bridging the Gap: A Holistic Approach to Automation and Web DevOps	Integrating ArcGIS API for JavaScript with a Web Application Framework
Santa Rosa	Extending LRS Capabilities to Pipeline Organizations	Story Maps: Configuring and Customizing Web Apps	ArcGIS Runtime SDK for Qt: Building Apps	Advanced Geolocation for Mobile Web Mapping Apps	ArcGIS Runtime SDK for Android: Building Applications
Demo Theater 1	Bringing Your Data to Life in ArcGIS API for JavaScript: Elevation	Python: Working with Multidimensional Scientific Data	Scientific Programming with the SciPy Stack	Getting Data Science with R and ArcGIS	Effective Batch Geocoding
Demo Theater 2	Let's Get Virtual with ArcGIS Runtime SDK	Military Tools for ArcGIS-for Developers	ArcGIS GeoEvent Server: Creating Connectors Using GeoEvent SDK	ArcGIS GeoEvent Server: Creating Processors using the GeoEvent SDK	Git/GitHub for Geographers
Demo Theater 3	ArcGIS Pro SDK for the Microsoft .NET Framework: Road Ahead for Data Validation Using ArcGIS Data Reviewer	Triumphs and Trials of Mobile App Development	Using Arcade in Your ArcGIS API for JavaScript Apps	Deploying Your Geoprocessing Tools as Python Modules	QML and JavaScript: No Browser Required
	Esri Production Mapping: Generating High-Quality Product-On-Demand Maps over the Web	IoT and Indoor Tracking with Raspberry Pi	Building Your UI Using jQuery and ArcGIS API for JavaScript	Python Package Management Using Conda	QML Cross-Platform Apps—Design Patterns
	Using Deep Learning to Extract Feature Data from Imagery	Turbocharge Feature Display on iOS with Pop-ups	Building Java Apps with JavaFX	Building Classes Using Accessor and ArcGIS API for JavaScript	How We Built ArcGIS Open Data: Ops
		To Be Announced—Please Check Online Agenda	Playing Nicely with Our Java APIs	To Be Announced—Please Check Online Agenda	Tracking Engagement with ArcGIS Open Data
		Batch Geocoding with ArcGIS	Automating Workforce for ArcGIS with Python	Adding LRS to Your GIS	Creating Geoprocessing Services with Python Script Tools
		Python: Automating Network Analysis Workflows		Converting the Esri Roads and Highways Advanced LRS to a Routable Network	Python: Automating the Publishing of Geoprocessing Services

8:30AM–10:00AM  
Keynote Session—Oasis 3-4

11:30AM–1:00PM  
Hosted Lunch—Esplanade

# Thursday, March 9, 2017

	9:00AM–10:00AM	10:30AM–11:30AM		1:00PM–2:00PM	2:30PM–3:30PM	4:00PM–5:00PM	5:30PM–6:30PM
Primrose B	A Deep Dive into ES6/ES2015 with a Glimpse into ES7/ES2016	ArcGIS GeoEvent Server: Applying Real-Time Analytics	11:30AM–1:00PM Hosted Lunch—Esplanade	Bringing Your Data to Life in ArcGIS API for JavaScript: Vector Tiles	ArcGIS Runtime: The Road Ahead	ArcGIS Pro: The Road Ahead	ArcGIS Enterprise: The Road Ahead
Catalina-Madera	ArcGIS Pro SDK for the Microsoft .NET Framework: UI Design for Accessibility and High DPI	ArcGIS Runtime: Working with Maps Online and Offline		Deep Customization of Open Data	ArcGIS Enterprise: Architecting Your Deployment	Big Data: ArcGIS GeoEvent Server and GeoAnalytics Server, Leveraging the Spatiotemporal Big Data Store	Tools for the Modern Web Developer
Pasadena-Sierra-Ventura	Creating Optimized Builds of ArcGIS API for JavaScript	Building Your Own Widget with ArcGIS API for JavaScript		Production Build and Deployment for Enterprise JavaScript Applications	Angular and ArcGIS API for JavaScript	JavaScript Applications for the Enterprise: Test More, Work Less	Practical Guide to Building 2D Web Apps
Primrose A	Practical Guide to Building 3D Web Apps	Working in 3D with ArcGIS API for JavaScript		Building Offline Apps Using a Hybrid Approach: ArcGIS API for JavaScript and ArcGIS Runtime	Building Web Apps That Integrate with Your Portal	Team-Driven Development—The Art of Failing, Succeeding, and Reflecting as a Team	ArcGIS API for JavaScript: Using Arcade with Your Apps
Primrose C–D	A Practical Guide to ArcGIS Online Security	Building Interactive Web Apps Using the ArcGIS API for JavaScript API's Geometry Engine		2D Visualization with ArcGIS API for JavaScript	ArcGIS GeoEvent Server: Best Practices	ArcGIS Server: Deep Dive for App Developers	ArcGIS Runtime: Maximizing Performance of Your Apps
Smoketree A–E	ArcGIS Enterprise in the Microsoft Azure Cloud	ArcGIS Enterprise in the Amazon Cloud		ArcGIS Runtime SDK for the Microsoft .NET Framework: Building Apps	Building Apps with Leaflet and the Esri Leaflet Project	ArcGIS Runtime: Analysis	ArcGIS Pro SDK for the Microsoft .NET Framework: Configurations
Mojave	Koop: Using Third Party Services Within the ArcGIS-Platform	Big Data and ArcGIS: ArcGIS GeoAnalytics Server		Creating a Smart 3D City Web App	Integrating Open Data	Audacious Enterprise GIS Apps with EmberJs	Building Apps for Hub-Hub-Ready Apps
Mesquite C	UX/UI Workshop: Visualizing Ideas with Wireframing	UX/UI Workshop: DIY Usability Testing		UX/UI Workshop : DIY Usability Testing (second installment)	UX/UI Workshop: Iterating Ideas through Prototyping	UX/UI Workshop: Collaborative Brainstorming	ArcGIS Runtime SDK for .NET: Extending Views and View Models Building Android Location Awareness Application with ArcGIS GeoEvent Server
Mesquite B	Exploring Commercial Catch: Creating a Fisheries Data Web Application Using ArcGIS API for JavaScript	Build Google Maps API-Based Web Apps by Using ArcGIS Image and Map Servers		Using Voice Recognition and Chatbots to Make Navigation Better	An Automated Approach to Processing, Analyzing, and Visualizing DOT Maintenance Activity and Costs	2017 State of JavaScript Architecture	Dojo 2 Widgets Just App It: Leveraging AWS, ArcGIS Server and Quartz Runtime SDKs to Build Offline-Capable Fishing Regulations Apps for Washington Anglers
	Sweeping on the Job: Building Web AppBuilder for ArcGIS Widgets	Pretty Charts: Data Viz Options for GIS Developers		Using Python and Selenium to Make Geographical Sense of BLMs LR2000	Utilization of JavaScript and PHP to Develop a Traffic Analyst Web Map	Introduction to Dojo 2	
Mesquite G–H	Sponsored Session: Trimble	Sponsored Session: Continuum Analytics—Exploring Continuum Analytics' Open-Source Offerings		Sponsored Session: ROK Technologies—Cost Effective Cloud Solutions for GIS	Developing Advanced Web Applications That Utilize Image Services and ArcGIS API for JavaScript	Getting Started with ArcGIS API for JavaScript Multidimensional Image Services	ArcGIS Online: Developing Web Applications with Routing Services
San Jacinto	Data Exploration with Smart Mapping in ArcGIS Online	Creating Rule Packages (RPKS) for ArcGIS Pro and Esri CityEngine with CGA		Web AppBuilder for ArcGIS: Creating New Themes	Extending Esri Maps for SharePoint	Developing Custom Extensions in Operations Dashboard for ArcGIS	Integrating Imagery into ArcGIS Runtime SDK Applications
Santa Rosa	What Is New in Survey123 for ArcGIS	Survey123 for ArcGIS: Tips and Tricks		Extending Survey123 for ArcGIS	What Is New in Collector for ArcGIS	What Is New in Navigator for ArcGIS	What Is New in Workforce for ArcGIS
Demo Theater 1	JavaScript for Geographers	ArcGIS API for Python for Administrators and Content Publishers		Controlling the Camera and 3D Navigation in Your ArcGIS API for JavaScript App	Building a Web App for Data Exploration with Smart Mapping		
		ArcGIS API for Python for GIS Analysts and Data Scientists		Controlling Environment and Lighting in Your ArcGIS API for JavaScript App	Developing Real-Time Web Apps with ArcGIS API for JavaScript		
Demo Theater 2	Automating Distributed Raster Analysis Using Image Server REST API	ArcGIS Pro SDK for .NET Framework: Getting Started		ArcGIS Runtime: How to Create 3D Models	Extending the ArcGIS API for JavaScript 3D Engine		
	Livin' la Vida Local Server	ArcGIS Pro SDK for the Microsoft .NET Framework: Building Configurations		Authentication for iOS Apps Made Easy			
Demo Theater 3	GIS, BIM, and Indoor Mapping	AppStudio for ArcGIS: Quick Guide for JavaScript Developers		To Be Announced—Please Check Online Agenda	Configuring Survey123 for ArcGIS On-Premises		
	Make Your iOS Apps Come Alive with Map Animations	Building Effective User Experiences with AppStudio for ArcGIS		To Be Announced—Please Check Online Agenda	ArcGIS Enterprise in the Cloud (AWS)—Tips and Tricks for Successful Deployments		

# Friday, March 10, 2017

	8:30AM–9:30AM	10:00AM–11:00AM	1:00PM–2:00PM
Primrose B	ArcGIS Mobile Apps: The Road Ahead	ArcGIS API for JavaScript: The Road Ahead	ArcGIS GeoEvent Server: Internet of Things (IoT)
Catalina-Madera	Create Custom Apps with GeoEnrichment, Demographic Map Services, and Esri Business Analyst	ArcGIS Runtime: Everything (or anything) You Wanted to Know about ArcGIS Runtime SDKs but Were Afraid to Ask	ArcGIS API 4.x for JavaScript: Programming Patterns and API Fundamentals
Pasadena-Sierra-Ventura	Using TypeScript with ArcGIS API for JavaScript Development		CSS for Geographers
Primrose A	Deep Dive on How ArcGIS API for JavaScript Widgets Were Built		
Primrose C-D	ArcGIS GeoEvent Server: Making 3D Scenes Come Alive with Real-Time Data	Introducing Coordinate Systems and Transformations	Web AppBuilder for ArcGIS: A Deep Dive into Enterprise Deployment
Smoketree A-E	ArcGIS Runtime: Styling Maps	A Practical Guide to ArcGIS Online Security	ArcGIS API for Python: Introduction to Scripting Your Web GIS
Mojave	ArcGIS Runtime: Building 3D Applications	Drawing Millions of Features in ArcGIS: Advanced Techniques	ArcGIS Enterprise: Automating Installation and Configuration
Mesquite C	Open-Source Esri GeoPortal Server: Building Discovery Solutions	ArcGIS Pro SDK for the Microsoft .NET Framework: Editing and Geodatabase Integration	
Mesquite B	Building Great Information Products with ArcGIS Online		
Mesquite G-H	Deploying Data Quality Services Using ArcGIS Data Reviewer for Server		
San Jacinto	ArcGIS Pro SDK for the Microsoft .NET Framework: An Overview of the Geodatabase API	Insight into the Utility Network	ArcGIS Enterprise Security
Santa Rosa	Automating Image Management and Dissemination Using Python	Writing Image Processing Algorithms Using the Python Raster Function	ArcGIS API for JavaScript: Tips and Tricks for Developing and Debugging Apps

11:00AM–1:00PM Closing Session and Hosted Lunch—Oasis 3-4

## Conference Activities

### Monday, March 6

#### GIS Solutions EXPO and Esri Showcase

Primrose A–D and Oasis 1–2

2:00 PM–7:00 PM

#### GIS Solutions EXPO Social

Primrose A–D and Oasis 1–2

4:00 PM–7:00 PM

#### Lightning Talks

Oasis 1–2, Demo Theater 1

5:00 PM–6:30 PM

### Tuesday, March 7

#### Plenary Session

Oasis 3–4

8:30 AM–11:45 AM

#### SpeedGeeking

Santa Rosa/San Jacinto

3:30 PM–5:00 PM

#### Meet the Teams

Oasis 3

6:30 PM–8:30 PM

### Wednesday, March 8

#### Keynote Session

Oasis 3–4

8:30 AM–10:00 AM

### Thursday, March 9

#### Developer Summit Party and Dodgeball Tournament

Oasis 3–4 and East Lawn

6:30 PM–9:30 PM

## Esri Store

### Primrose Lobby

Saturday, March 4 1:00 PM–5:30 PM

Sunday, March 5 8:00 AM–5:00 PM

Monday, March 6 8:00 AM–5:00 PM

Tuesday, March 7 7:30 AM–5:30 PM

Wednesday, March 8 8:00 AM–5:30 PM

Thursday, March 9 8:00 AM–5:00 PM

## Esri Showcase

### Oasis 1–2

Monday, March 6 2:00 pm–7:00 pm

Tuesday, March 7 NOON–6:30 PM

Wednesday, March 8 10:00 AM–6:30 PM

Thursday, March 9 9:00 AM–4:00 PM

# Palm Springs Convention Center

