

Developing Web Applications with ArcGIS API for Javascript


Build compelling 2D web mapping apps

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SGD\$1,440 / pax

Level: intermediate | Course duration: 3 days

This course teaches you how to use the ArcGIS API for JavaScript to efficiently develop high-performing, engaging web applications that meet the needs of your intended audience.



The screenshot displays a web application interface. At the top, there is a map showing a geographical area with various locations labeled, including Cabazon, Monis, White Water, Snow Creek, Bonnie Bell, Desert Hot Springs, North Palm Springs, Dos Palms Corners, Salvia, Sky Valley, and Palm Springs. The map is overlaid with several red and orange circular markers. Below the map, there is a table titled "RealEstateCollecton (8 features, 0 selected)". The table has columns for Address, Created Date, Use Type, Building Size, Available Size, Status, Parking Count, and Primary Parking Type. The table contains three rows of data.

Address	Created Date	Use Type	Building Size	Available Size	Status	Parking Count	Primary Parking Type
2225	September 7, 2016, 12:00 AM	Health		16,000 sqft	Occupied	100-149	Uncovered parking
ark write	May 15, 2015, 2:00 PM	Health	100 sqft	434,544 sqft	Under Construction	100-149	Garage parking
Villalpando's Place	April 12, 2011, 2:30 AM	Retail	500 sqft	15,000 sqft	Occupied	10-29	Street parking

What is the course about?

You will learn about the classes available in the API, how to use them in a JavaScript-based web application, and how to incorporate ArcGIS services and ArcGIS Online content to enhance your applications. This course focuses on functionality available with ArcGIS 10.3, 10.2 and 10.1 services, but many course concepts apply to ArcGIS 10.0 and 9.3.1 services.

Who is the target audience?

JavaScript developers who want to create web applications that include ArcGIS services and functionality, and GIS professionals who have experience with JavaScript and want to create JavaScript-based web applications.

Are there any prerequisites?

- JavaScript and HTML programming experience is required
- Completion of [ArcGIS 4: Sharing Content on the Web](#) or equivalent knowledge is required
- Completion of Introduction to the ArcGIS for Server REST API or equivalent knowledge is recommended

What skills will I learn?

After completing this course, you will be able to:

- Build, test and deploy a web application using the ArcGIS API for JavaScript
- Incorporate ArcGIS services that allow end-users to visualise, query and edit data
- Configure API components to meet user experience (UX) requirements
- Apply best practices to ensure high performance and proper communication between the client application and web server

Course topics

Getting started with ArcGIS API for JavaScript

- ArcGIS for Developers
- Developer resources
- API features and components
- Add a map to an existing web app

Working with the map

- Map layers
- Understanding spatial reference
- Available widgets
- Map configuration

Working with the Geocoding and Directions widgets

- ArcGIS services
- Geocode widget
- Reverse geocoding and geosearch capabilities
- Directions and routing tasks

Query and visualisation

- Query tasks
- Graphics layers and feature layers
- Renderers
- Dynamic layers

Tasks for analysis and output

- Print tasks
- Spatial analysis services and operations
- Geoprocessing tasks
- Event listeners

Editing data

- Web editing scenarios and requirements
- Configuring widgets
- Feature collection
- Rollbacks
- Owner tracking

Enhancing your application

- ArcGIS platform features
- Efficient application design using web maps
- Secure services
- Interacting with Portal for ArcGIS