Introduction to Web Development Using ArcGIS API for JavaScript

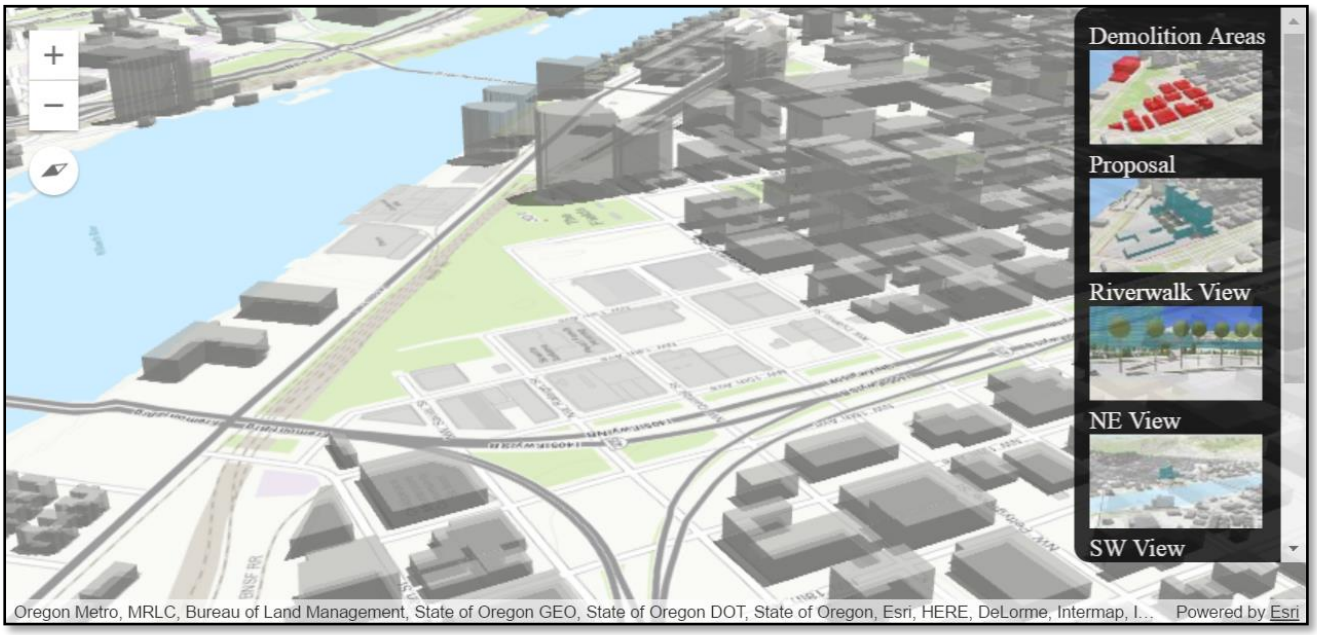
Build 3D web apps

Register now

SGD$1,440 / pax

Level: Beginner | Course duration: 3 days

The 4.x series of the ArcGIS API for JavaScript is Esri's next-generation JavaScript API that integrates 2D and 3D into a single, easy-to-use, powerful API. Version 4.1 lets you build full-featured 3D applications powered by web scenes that can include rich information layers such as terrain, basemaps, imagery, features, integrated mesh layers, and 3D objects.



What is the course about?

This course provides novice developers with a solid introduction to developing GIS Web apps using the ArcGIS API for JavaScript. The pacing and scope of this course will be well-suited for GIS professionals who have limited developer experience.

Who is the target audience?

GIS professionals and others who want to develop custom web applications using the ArcGIS API for JavaScript. The target audience needs some basic knowledge of web development.

Are there any prerequisites?

- Basic web development skills (HTML, CSS, and JavaScript)
- Completion of ArcGIS 2: Essential Workflows or equivalent knowledge is required

What skills will I learn?

After completing this course, you will be able to:

- Create apps that incorporate your organisation's web maps, web scenes, and layers
- Display and render maps in both 2D and 3D
- Include capabilities for end users to query map layers and perform spatial analysis
- Develop and test application functionality using version 4 of ArcGIS API for JavaScript

Course topics

Introduction to ArcGIS API for JavaScript

- Building a Simple Web App
- Anatomy of a Simple Web App - JavaScript

Load a map into a web app

- Workflow Key
- Workflow Overview
- Use a Working Example

Work with GIS layers

- Workflow Overview
- Select an API Layer - Data Type
- Select an API Layer - Purpose

Display maps with MapViews (2D)

- Workflow Overview
- MapViews (2D) and ViewPoints
- SceneViews (3D) and ViewPoints

Implement map widgets

- Workflow Overview
- Select an API Widget - Purpose

Visualise map features using renderers and symbols

- Workflow Overview
- Select an API Renderer - Data Type
- Symbols and Symbol Layers
- Select an API Symbol - Purpose

Perform searches in the map

- Workflow Overview
- Select a Search Source

Perform queries in the map

- Workflow Overview
- Select a Query Type

Perform GIS analysis

- Workflow Overview
- Identify Geoprocessing Service

Perform geometry operations

- Workflow Overview
- Geometry Operations

Apply a pop-up

- Workflow Overview