



Introduction to ArcGIS Server 10 2 days

Overview

In this course, you will acquire the skills needed to share GIS content on the Web or across the enterprise. You will learn a workflow to publish maps, imagery, geoprocessing models, and feature templates for use in Web applications that support visualization, analysis, and editing of GIS resources.

The new features within ArcGIS Server 10 are also explored. These include the new feature service which is used as the foundation for editing; working with mosaic datasets and learning how to publish them as an image service; and how “time” is enabled within the web environment.

Your instructor will show you how you can take advantage of these existing and new features with particular emphasis on instructor led demonstrations which are further consolidated using “hands-on” exercises.

Who should attend

If you belong to anyone one of the following categories of user then you will benefit from attending the Introduction to ArcGIS Server 10 course:

- GIS analysts, specialists, and other experienced ArcGIS Desktop users who are new to ArcGIS Server 10 who wish to learn about its architecture, capabilities and client applications
- Developers who need to understand ArcGIS Server functionality in order to incorporate GIS Services into custom applications
- Anybody who wants to find out what is new in the latest version of ArcGIS Server

Goals

After attending this course you will have a thorough understanding of the functionality and new options contained within ArcGIS Server 10; namely:

- Investigate the client and server components of ArcGIS Server architecture
- Understand the processes behind authoring, publishing and consuming GIS Services
- Learn how to configure an existing model and publish it as a geoprocessing service
- Discover how to perform editing over the web using the new Feature service

- Work with visualisation services (map and image services and learn how to make your application “time” aware.
- Listen to how standard GIS services can be made OGC compliant (WMS, WFS, WCS, KML)
- Investigate which is the most appropriate Web API to build your ArcGIS Server web sites
- Build and use existing web applications that consume GIS Services using the ArcGIS API for Javascript

Topics Covered

Introduction:

Course goals; Using the course workbook; Additional resources and installing the class data

What is ArcGIS Server?

ArcGIS Server and the Web; ArcGIS Server components; Licensing

Overview of GIS Services

ArcGIS Services and applications; Enabling Web GIS and ArcGIS Server; Discover GIS services in a Web mapping application; Authoring the GIS resource; Best practices for publishing GIS resources; Enabling service capabilities

Planning and design for map services

The evolution of web maps; Web GIS framework; Explore a Web mapping application; Display techniques; Choosing display techniques; Additional design considerations

Authoring dynamic map services

Dynamic services; Review ...GIS Services; Using the Map Service Publishing toolbar; Workflow for updating an MSD-based service; When can I use MSD-based services? Tips to improve response time

Authoring cached map services

What is a cache?; Dynamic services vs. Caches services; Cached tiles; Caching workflow; Properties of a tiling scheme; Build only the tiles you need; Tile origin and size; Image and storage format; Determining the cache extent

Using GIS Services for Visualisation

Using GIS Services for visualisation; Using services to visualise change over time; How are rasters used for visualisation?; Serving raster data

Using GIS Services for Analysis

How have you seen spatial analysis over the web? Workflow to create a geoprocessing service; Authoring a geoprocessing service; Geoprocessing service components; Authoring: Desktop → Server; Geometry services



ArcGIS 10

a new perspective

Using GIS Services to edit data

Use cases for editing spatial data on the web; Workflow for creating feature services; Feature service data requirements

Putting it all together: Serving GIS data on the web

What clients have you used to consume your GIS Services? Recipe for Web GIS; Which web application should you choose? Which ArcGIS API should you choose?

Prerequisites

Completion of an ArcGIS Desktop foundation course, or equivalent knowledge and experience. We recommend the following courses: What's new in ArcGIS Desktop 10 or ArcGIS Desktop – Part 1

Related Courses

What's New in ArcGIS Desktop 10?

ArcGIS Desktop – Part 1

ArcGIS Server: Web Administration Using the Microsoft .Net Framework (coming Jan 2011)