Advanced Web Map Preparation

31 October – 4 November 2027
Istanbul (Turkey)



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Introduction

Welcome to the Advanced Web Map Preparation Course, designed to expand on the knowledge gained in the Advanced Geospatial Analysis Course. This program focuses on creating interactive web maps using the latest web mapping technologies. Participants will learn the tools and techniques required to develop GIS web mapping applications that are visually engaging, interactive, and capable of delivering valuable insights to users online.

Whether you're a GIS professional or a web developer, this course will teach you how to integrate cartography principles with web design to build user-friendly and responsive web mapping solutions. Gain hands-on experience with advanced map cartography and modern web development techniques, enabling you to create maps that are both functional and appealing.

Course Objectives

By the end of this course, participants will be able to:

- Understand what is cartography, its definition, purpose, and role in designing effective web maps.
- Master the basics and advanced concepts of cartography and mapping, including cartography principles for interactive maps.
- Create GIS web mapping applications by integrating geospatial data analysis into interactive web maps.
- Design responsive web maps optimized for various devices, ensuring a seamless user experience.
- Optimize map performance through data streaming, caching, and reducing load times for better user engagement.
- Explore the integration of geolocation APIs, data visualization libraries, and external data sources into web maps.
- Learn to customize and style maps using tools like Mapbox Studio, combining advanced cartography with modern web technologies.



Course Outlines

Day 1: Introduction to Web Mapping Technologies

- Overview of web mapping frameworks like Leaflet, Mapbox, and Google Maps API for GIS web mapping.
- Introduction to HTML, CSS, and JavaScript for building and styling web maps.
- Understanding spatial data formats such as GeoJSON, TopoJSON, and their applications in web mapping GIS training.
- Exploring cartography principles and their importance in creating user-focused map designs.

Day 2: Building Interactive Web Maps

- Setting up a web mapping development environment for building web maps.
- Creating basic interactive maps with Leaflet.js, including adding data layers and visual elements.
- Implementing user interactions like zooming, panning, and popups for enhanced usability.
- Designing and integrating map cartography with geospatial datasets.

Day 3: Advanced Web Mapping Techniques

- Incorporating geospatial data analysis results into web maps for deeper insights.
- Visualizing raster data using WebGL and tilesets for effective data representation.
- Adding advanced features such as clustering, heatmaps, and animated overlays.
- Designing responsive web maps optimized for desktop and mobile devices.

Day 4: Customizing and Styling Web Maps

- Customizing base maps and styles using tools like Mapbox Studio for advanced cartography and mapping.
- Incorporating external data sources and APIs for dynamic and interactive maps.
- Exploring thematic mapping techniques and map web design for effective data visualization.

Day 5: Deploying and Sharing Web Maps

- Hosting web maps on platforms like GitHub Pages, AWS, or Heroku.
- Integrating maps into websites or web applications for seamless user access.
- Implementing security features and access control for sensitive web maps.
- Promoting and sharing interactive web maps with stakeholders and the public to maximize engagement.



Why Attend This Course: Wins & Losses!

- Gain advanced skills in GIS web mapping and create professional-level interactive web maps.
- Master cartography principles and their application in web mapping GIS training, enhancing your ability to design visually appealing and functional maps.
- Develop responsive and optimized web maps that perform seamlessly across all devices.
- Receive practical training in integrating geospatial analysis results into web mapping projects.
- Earn a competitive edge in the job market by learning in-demand skills in advanced cartography and web map design.

Conclusion

The Advanced Web Map Preparation Course provides a complete learning experience in web mapping GIS training, equipping you with the knowledge to design and develop interactive web maps that integrate advanced cartography principles. You'll gain practical expertise in creating responsive, high-performance web mapping applications that deliver valuable insights to users.

Join this course to unlock your potential in GIS for web developers and take your skills in map cartography to the next level. Become a leader in web mapping by designing maps that are dynamic, user-friendly, and impactful.

