

“PG Online”: *low cost webmaps made easy*



>>> Technology

Plan-It Geo Online use several technologies to provide advanced web mapping services. PG Online was designed and developed to take advantage of as much free and open source technologies as possible in order to keep these services flexible and affordable. Meanwhile, other proprietary technologies are included in the PG Online architecture in order to increase the speed and ease of configuring/customizing mapping applications.

The following is a list of technologies included in the Plan-It Geo Online architecture:

ArcGIS Online for Organizations

- 🌳 ArcGIS Online is a cloud-based service from ESRI that provides GIS data hosting and sharing capabilities via web maps. PG Online uses AGOL to store your GIS data so your data is secure and there is no need for expensive server infrastructure.

Amazon Web Services

- 🌳 Amazon Web Services is a group of cloud-based services that provide storage, computing power, and web hosting capabilities. PG Online uses AWS to host web applications. All of the application files are hosted on Amazon's servers to maximize security and availability to your application.

HTML5, JavaScript, and CSS3

- 🌳 HTML5 is quickly growing as one of the most popular web languages. It offers many of the features of rich internet applications (RIA) like Flex, Flash, and Silverlight without the need for special plugins for your web browser.
- 🌳 JavaScript is a client-side dynamic scripting language that makes web pages come to life with more user interaction and dynamic content changes. JavaScript commands are all processed in your browser so there is little need for communication between your browser and the server, which significantly increases the speed of your application.
- 🌳 CSS3 provides advanced styling capabilities to your application. This language instructs your web browser how to display content on the page.

- 🌿 All three of these languages are lightweight, powerful, and standards based. This means they are supported by most major web browsers and can provide a great experience without using up precious computing resources.

ESRI JavaScript API

- 🌿 The ESRI JavaScript API is an application programming interface that allows JavaScript web applications to interact with data stored in ArcGIS Server or ArcGIS Online. The API also provides several out-of-the-box features such as map display and interaction, and editing.

Dojo Toolkit

- 🌿 The Dojo Toolkit is a free and open source JavaScript library that the ESRI JavaScript API and PG Online web applications are based upon. Dojo provides several features that improve development and user experience. For example, Dojo contains a large library of widgets for creating custom forms and user interfaces. In addition, Dojo allows the different components of a web application to interact more easily with each other.