What's new

The October 2023 update includes new raster analysis tools and time zone settings in Map Viewer and other enhancements and new functionality throughout the ArcGIS Online website. Highlights are provided below. For more information, see the What's new in ArcGIS Online blog article.

Mapping

- Box plots are now available in Map Viewer. Box plots allow you to visualize and compare the distribution and central tendency of numeric values.

- When adding charts to pop-ups, you can now select custom colors and color ramps for charts using RGB, HSV, or hexadecimal values. You can also select fields and expressions from the new **Fields List** and apply custom colors when adding text to pop-ups.

- You can now set the time zone of your map to display temporal data using the device time zone, a specific time zone, or the data's time zone. By default, the map displays the date and time based on the time zone of the device used to view the map.

- Map Viewer now supports viewing and managing oriented imagery layers using the oriented imagery viewer.

- You can duplicate an imagery layer or tiled imagery layer in Map Viewer and save the duplicate layer as a new layer item that references the original layer.

- You can save group layers as items and reuse them across web maps. Many group layer settings—such as styling and visibility—will also be saved. Grouping layers into a single item allows you to organize, configure, and access content that you frequently use together.

- When working with sketch layers, you can now duplicate sketch features. You can also enable tooltips to show feature dimensions while drawing sketch features.

- There are five new color ramps available in Map Viewer when working with styles that use a color ramp (such as Heat Map), including Plasma, Cividis, Viridis, Magma, and Inferno. These color ramps provide support for color vision deficiencies and enhanced data visualization.

3D visualization

- Explore a new, modern, and simplified phone experience for Scene Viewer.

- With the new presentation mode, you emphasize the scene content and slides with minimal UI.

- You can now enhance pop-ups in 3D with Arcade expressions and related records.

- The CityEngine Web Viewer app is now retired.

For more information on what's new in 3D, see the What's new in Scene Viewer blog article.

Sharing and collaboration

- You can now use up to 900 content and group categories, enabling more robust category schemas.

App configuration

- One new widget is available in ArcGIS Experience Builder. Analysis allows you to add spatial analysis and geoprocessing tools to an app. Other enhancements include the Edit widget supporting editing related tables, the Table widget allowing you to set filters at run time with the SQL expression builder, and a new extent navigation tool for the Map widget. For more information, see What's new in Experience Builder.

- ArcGIS Instant Apps has a new app template and several updates. The new Atlas template allows users to discover, view, and explore curated maps and layers with common tools (such as search, measure, and swipe), switch between 2D and 3D views, modify maps by adding layers and sketches, and save a new map. A language switcher configuration option has been added to Interactive Legend, Media Map, Nearby, Sidebar, and Zone Lookup so you can publish a multilingual app that combines your translated custom text and the user interface translations for supported languages. For more information, see What's new in Instant Apps.

- ArcGIS Dashboards includes several updates. Web scenes are now supported through the map element, allowing authors to use layers from the web scene as a data source for other dashboard visualizations and selectors. Mobile views now allow actions from additional dashboard elements, including lists and tables. In addition, a new `contains` operator in the category selector enables filtering for features with multiple categories, and you can use feature layers from ArcGIS Living Atlas of the World as standalone data sources. For more information, see What's new in ArcGIS Dashboards.

Data management

- A new editor for metadata is available that improves the experience for editing and viewing metadata. The new editor is the default option when editing metadata, but item owners still have the option to use the metadata editor classic at this release.

- Catalog layers and oriented imagery layers appear as specific feature layer sublayer types. On the **Content** tab, you can apply a filter to return feature layers that include these sublayer types.

Notebooks

- You can now manage scheduled tasks from the ArcGIS Notebooks home page and create snapshot previews.

Spatial analysis

- Crediting threshold analysis settings are now available for organizations with credit budgeting enabled. These settings allow you to enable a warning message when the estimated credit usage for an analysis run surpasses a specified threshold.

- Find Point Clusters now creates charts as outputs for certain **Clustering method** options. A distribution of membership probability chart is created as an output for **Self-adjusting (HDBSCAN)** and a reachability plot is created as an output for **Multi-scale (OPTICS)**.

- The following raster analysis tools are now available in Map Viewer:
  - Detect Change Using Deep Learning uses a deep learning model to detect change between two raster layers.
  - Locate Regions identifies the best regions in the input raster that meet specified size requirements and spatial constraints.
  - Multidimensional Principal Components transforms the multidimensional imagery layers into a reduced number of components that account for the variance of the data so that spatial and temporal patterns can be readily identified.
  - Nibble replaces the cells of a raster corresponding to a mask with the values of the nearest neighbors.

- The following raster functions are now available in Map Viewer:
  - Distance Accumulation calculates accumulated distance from each cell to input sources.
  - Distance Allocation calculates distance allocation from each cell for sources.

- Focal Statistics calculates statistics on the cells within a neighborhood around each cell of an input raster. Several shapes of neighborhood are available.

- Interpolate Raster by Dimension interpolates a multidimensional raster at specified dimension values using adjacent slices.

- Least Cost Corridor calculates the sum of two accumulative cost distance rasters with the option to apply a threshold based on percentage or accumulative cost.

- Recast modifies the parameters of a function chain in a mosaic dataset or image service.

- Spectral Conversion applies a matrix to a multiband image.

- Transpose Bits unpacks the bits of the input pixel and maps them to specified bits in the output pixel.

- Raster functions now support showing a preview of the result. Previews are available for all raster functions, except global raster functions. Creating a preview allows you to modify the parameters for the function before running the analysis to ensure you achieve the correct result. For more information, see Raster function template.

Accounts and administration

- Administrators can now enforce multifactor authentication across their organizations. This ensures members with ArcGIS logins are in compliance with security policies when signing in to ArcGIS Online.

- Administrators can now configure a custom role that allows members to create and manage administrative reports for their organization.