



Client-Side Web GIS

Instant Apps, Dashboards, and
StoryMaps

Image from NASA:
https://commons.wikimedia.org/wiki/File:Earth_Western_Hemisphere_transparent_background.png#filelinks



This module focuses on making web apps using Instant Apps, Dashboards, and StoryMaps.

Module Topics



1. Instant Apps
2. Dashboards
3. StoryMaps

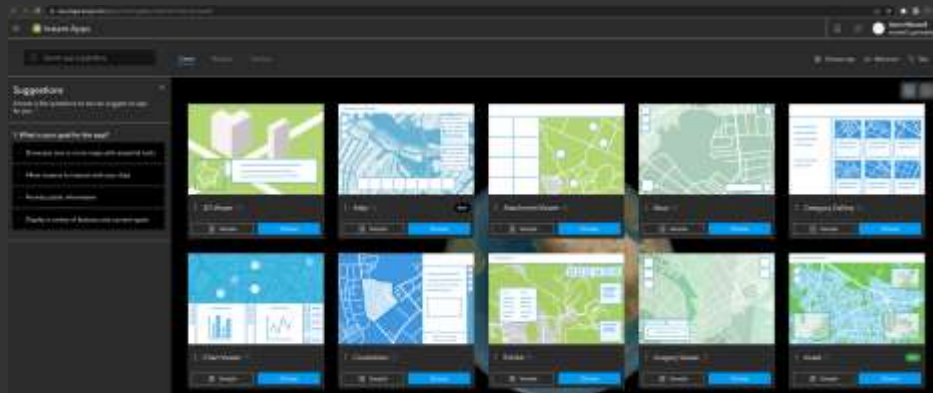
These are the topics covered in this module.

Make an Instant App

Presenting Your Data



❖ **Instant Apps** = pre-made applications that you can load your layers into

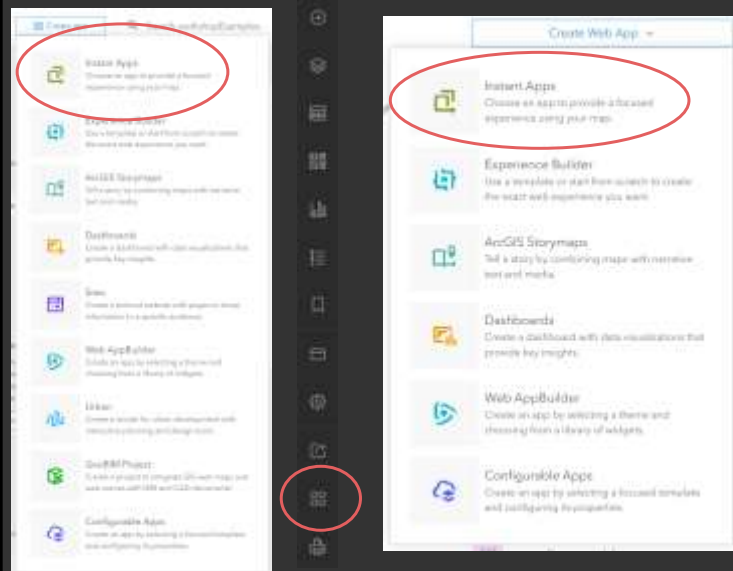


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ArcGIS Online provides many options for generating web apps. For example, Instant Apps allow you to configure a template.

These are generally easy to set up and deploy; however, customization is limited.

Initialize App



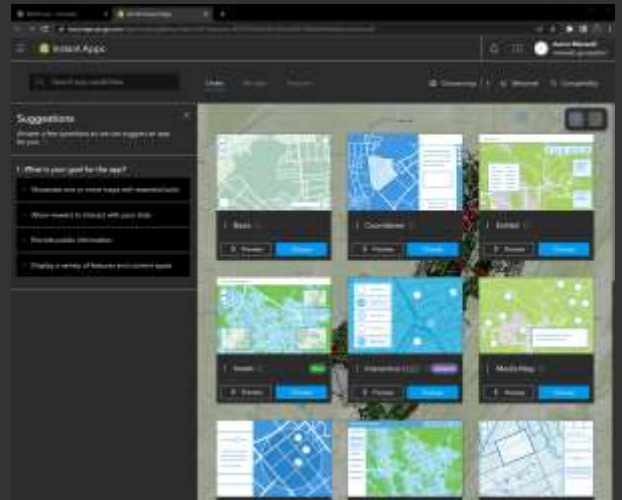
- ❖ Content → Create App → **Instant App**
- ❖ From Map View Or Scene View → Create App → **Instant App**
- ❖ Map or Scene Drop Page → Create Web App → **Instant App**

Instant Apps can be initiated from a variety of locations in ArcGIS Online. Three options are outlined on this slide.

◀ Select a Template



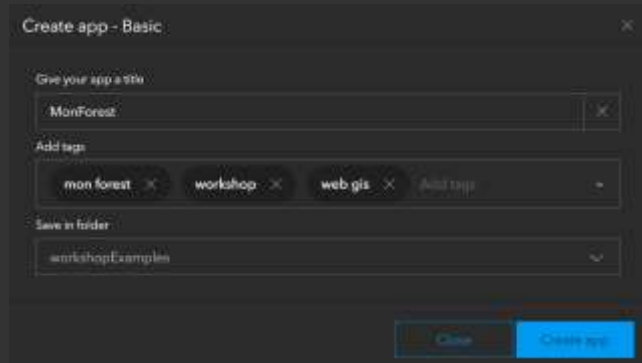
- ❖ Different templates/apps for different purposes
- ❖ Make sure data meet the requirements of the template
- ❖ Make sure the template aligns to the goals of the **app**
- ❖ Some templates note the data requirements



A variety of Instant App templates are available for different purposes. You will need to find a template that aligns with your needs and make sure that your data meet the template requirements.

Configure App

- ❖ Select template
- ❖ Name **app**
- ❖ Provide tags
- ❖ Save to **Content**



The screenshot shows the 'Create app - Basic' dialog box. It has a title bar with a close button. The main content area includes:

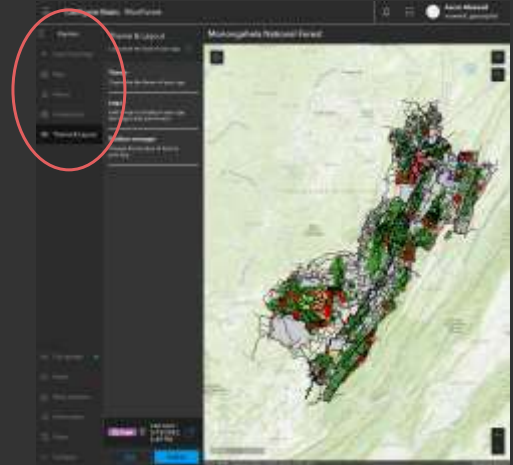
- 'Give your app a title': A text input field containing 'MonForest'.
- 'Add tags': A horizontal list of tags with 'mon forest', 'workshop', and 'web gis', followed by an 'Add tags' button.
- 'Save in folder': A dropdown menu showing 'workshopExamples'.
- At the bottom right: Two buttons, 'Cancel' and 'Create app'.

To begin, you will need to select the desired template, name the app, and provide tags. Apps, like other ArcGIS Online objects, will be saved to your ArcGIS Online content.

Configure App



- ❖ Available option/configurations vary by template
- ❖ Express mode = provide access to most important options only
- ❖ Common options
 - Source **Map**
 - Include certain components or widgets such as
 - Header, legend, layer list, basemap gallery, etc.
 - Available interactivity
 - Themes, colors, and fonts
 - Position of apps, widgets, and tools



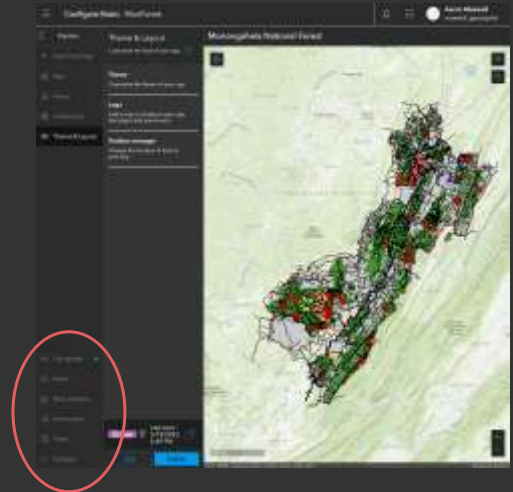
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This slide outlines some of the options associated with app configuration. However, options will vary based on the template. Most apps have an Express mode that limits the options and changes that can be made for ease of use. This mode can be turned off to access more options.

Configure App



- ❖ Share settings
- ❖ Web analytics
- ❖ Assess on different screen sizes



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Once an app is created, you will need to share it in order for others to access it. You are able to keep the app private (i.e., not shared) or share it with your organization or publicly (i.e., with everyone). Note that the data, maps, and associated apps generally need to have the same sharing settings.

Additional tools are provided to capture web analytics associated with visits to and use of the app and to assess the appearance and functionality of the app on different screen sizes (i.e., responsiveness).

- ❖ Click **Publish**
- ❖ **Launch**
- ❖ Will save to your **ArcGIS Online** Content
- ❖ Can View, Configure, or change **Share** settings from drop page
- ❖ App will get assigned a URL



Clicking Publish will allow you to view the app. Once published, an app will be viewable by anyone to which it is shared. The app will be added to your ArcGIS Online content, and an associated drop page will be generated. You can view, further configure, and change share settings for an app from the drop page. Each app will also have an associated URL that you can share with others. This is generally provided at the bottom-right of the drop page.

Make a Dashboard

❖ Dashboards =
focused on data
visualization and data
insights

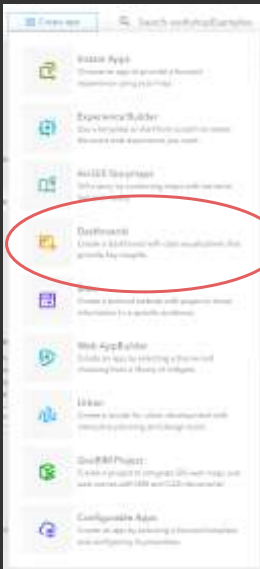


Dashboards are used to monitor data. They are data-centric as opposed to map-centric. There are several software environments that allow for generating dashboards, such as Tableau and Microsoft Power BI. Dashboards have been implemented into the ArcGIS environment as Dashboard apps.

Initialize a Dashboard



❖ Content → Create App → Dashboards



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You can initialize a new dashboard in ArcGIS Online by navigating to your content and then selecting Create App followed by Dashboards.

Dashboard Content

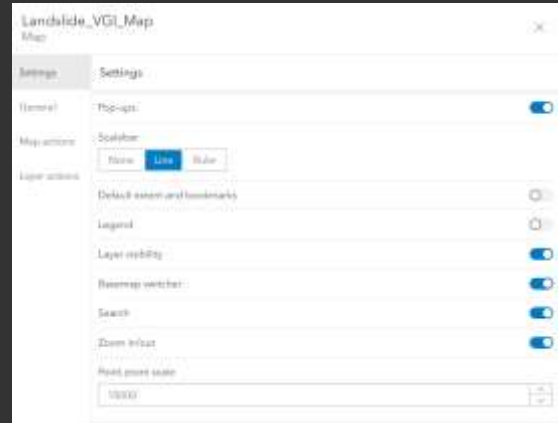


- ❖ Map
- ❖ Map legend
- ❖ Serial chart
- ❖ Pie chart
- ❖ Indicator
- ❖ Gauge
- ❖ List
- ❖ Table
- ❖ Details
- ❖ Rich text
- ❖ Embedded content

A variety of content can be added to a dashboard, including the features or widgets listed here.

Item Properties

❖ Elements have unique settings and properties



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Different elements will have varying settings and properties available.

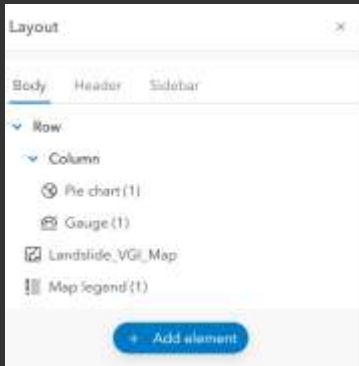
Dashboard Themes



- ❖ Theme
- ❖ Text color
- ❖ Dashboard background color
- ❖ Element background color
- ❖ Element outline color
- ❖ Tab border color
- ❖ Active border color
- ❖ Inactive tab border color
- ❖ Inactive tab text color
- ❖ Map selection color
- ❖ Map follow color

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You also have options to modify dashboard themes including fonts and colors applied to different items.



- ❖ Body
- ❖ Header
- ❖ Sidebar

The dashboard layout can be broken into three broad regions: the body, the header, and the sidebar. Only the body is required. A header can be used to add a title and provide additional information or branding.

The sidebar is used to give a dashboard more context by providing additional information.

- ❖ Allow element re-size
- ❖ Allow element expansion
- ❖ Allow dashboard reset
- ❖ Number prefixes
- ❖ URL parameters

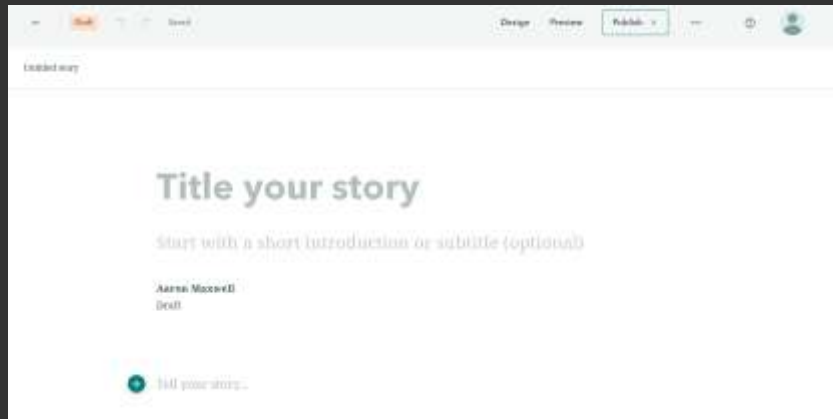


There are also some global setting available for dashboards including allowing elements to be resized, expanded, or reset.

Make a StoryMap

Presenting Your Data

❖ **ArcGIS StoryMaps** = configurable apps designed for developing narrative using maps, text, and media

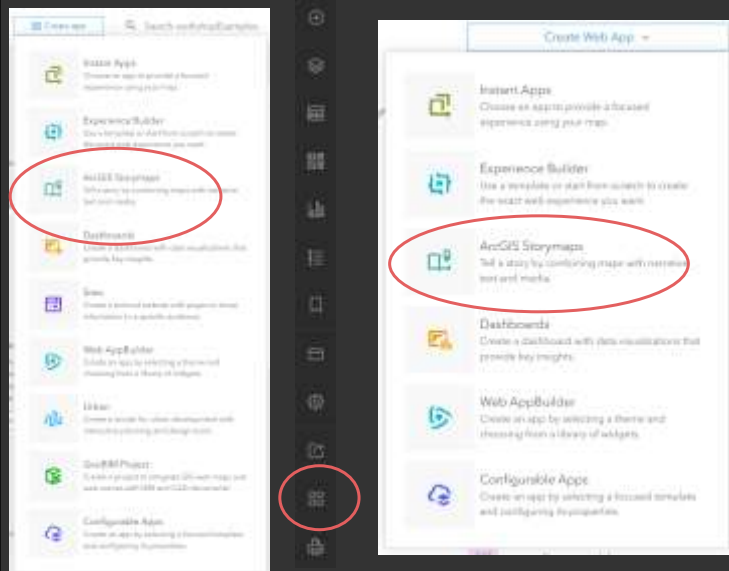


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StoryMaps allow for generating a narrative-based webpage that can include maps, text, media, and embedded content. StoryMaps do not need to include a map; you can use them to design a webpage or deliver a presentation.

StoryMaps are generally easy to use. For example, their uses are expanding in K-12 education.

Initialize App



- ❖ Content → Create App → ArcGIS Storymaps
- ❖ From Map View Or Scene View → Create App → ArcGIS Storymaps
- ❖ Map or Scene Drop Page → Create Web App → ArcGIS Storymaps

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StoryMaps can be initialized using the same methods as Instant apps.

Story Settings



Story settings

Display Analytics

Display

☐ Hide sharing options

Date on cover

Original publication date

Story language

Setting the correct language for this story helps followers understand posts and access features with an experience.

Language

English - English

Number and date format

US - US

Cancel Save

Story settings

Display Analytics

Public view options and controls by configuring an account access token

☐ Analytics

Account type

Report cards

Sharing links

Web Tracking (beta feature)

Cancel Save

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This slide highlights some of the settings available when you generate a StoryMap.

❖ Cascading webpage format

❖ Design

❖ Cover

❖ Minimal

❖ Side-by-Side

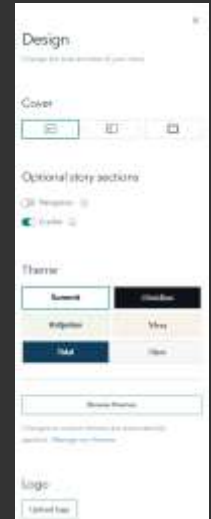
❖ Full

❖ Navigation links

❖ Credits

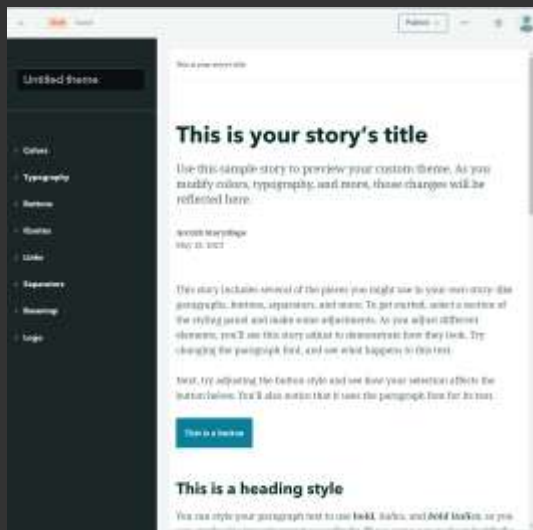
❖ Theme

❖ Logo



Different page configurations and settings are available including how the header information is displayed, whether or not to include navigation or credits, and design themes.

- ❖ Can create custom themes
- ❖ Can share themes with Groups and Organization



You can design custom themes that can be applied to multiple StoryMaps. These themes are saved to your ArcGIS Online content and can be shared within your organization.

Content Blocks

Basic

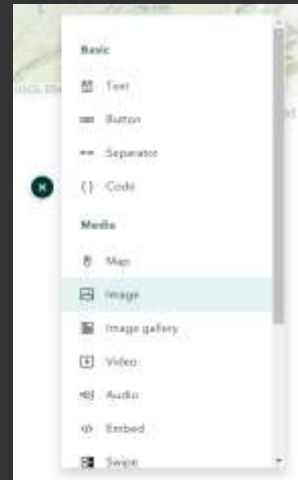
- ❖ Text
- ❖ Button
- ❖ Separator
- ❖ Code

Media

- ❖ Map
- ❖ Image
- ❖ Image gallery
- ❖ Video
- ❖ Audio
- ❖ Embed
- ❖ Swipe
- ❖ Timeline

Immersive

- ❖ Slideshow
- ❖ Sidecar
- ❖ Map tour



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This slide highlights some of the different content that can be added to Storymaps.

- ❖ Each content block type has unique settings
- ❖ User is walked through configurations using wizards

Content blocks will have unique settings that the creator can specify and configure using windows and wizards.

StoryMap Examples



❖ Check out examples:

- ❖ <https://www.esri.com/en-us/arcgis/products/arcgis-storymaps/overview>
- ❖ <https://doc.arcgis.com/en/arcgis-storymaps/gallery/>



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This slide provides links to some example StoryMaps curated by ESRI.



This is the end of this lecture module.

Please return to the West Virginia View
Webpage for additional content.



Thanks! Hope you found this useful.