



UCONN UNIVERSITY OF CONNECTICUT	<b>CLEAR</b>
<b>Overall Learning Objectives</b>	Â
<ul> <li>Introduction to Web GIS</li> <li>Understanding Esri's ArcGIS Online Infrastructure</li> <li>Web Maps – building, customizing, using them</li> <li>Access and use of online GIS data</li> <li>Sharing – links, embed, apps and</li> <li>Story maps!</li> </ul>	



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Workshop Agenda	Â
<ul> <li>Part I: Introduction to ArcGIS Online</li> <li>AGOL basics</li> <li>The Web Map <ul> <li>Navigation</li> <li>Data and sources</li> <li>Working with layers, customization</li> <li>Sharing</li> </ul> </li> </ul>	
<ul> <li>Part II: Introduction to Story Maps</li> <li>What are Story Maps?</li> <li>How Story Maps work</li> <li>Build a Map Journal Story Map</li> <li>Build a Story Map Tour</li> <li>Resources, Extras and more</li> </ul>	• • • • • •

















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ArcGIS	Online	Basics		https://www.a	rcgis.com
The ArcG	IS Online	Home Pag	ge Sea	arch	Log in
Title Bar	ArcGIS Overview Pricing	Map Scene Groups	Content	Q 4 (0)	
	ArcG	IS		esri	
Featured Content	Country Population Estimates, 2015, from United	Feismic Seafloor Feature Anomalies (Mature Support)	Southern Pine Beetle Prevention Program	Streets	
Resources	✓ Apps for Everyone Use ArcGIS apps to get the job done.	Make a Map Create a map that can be viewed in a browser, desktop or mobile device. Share it on a blog, via email, or embed it in a website.	ArcGIS for Developers Build custom web and mobile applications that incorporate your maps and data.	Discover Lessons     Take hands-on lessons based on     real-world problems.	

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Hands-on: Follow the Instructor	
<ul> <li>Log into ArcGIS Online</li> </ul>	•
<ul> <li>Click through the heading tabs</li> </ul>	•
Content	۲
<ul><li>Groups</li><li>Map</li></ul>	•
<ul> <li>Search for content</li> </ul>	۲
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The AGOL Web Map	
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web map overview	•
<ul> <li>GUI, tools and basemaps</li> </ul>	۲
<ul> <li>Searching and finding data in AGOL</li> </ul>	۲
<ul> <li>Adding data from a GIS server</li> </ul>	•
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Saving, Sharing & Using a Web Map	۲
<ul> <li>My Content</li> </ul>	۲
<ul> <li>Public v. Private</li> </ul>	۲
<ul> <li>Share links, embed code and web apps</li> </ul>	
<ul> <li>Content source for story maps</li> </ul>	
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Pan and zoom the ma search by its name or	Imagery	Imagery with Labels	Streets			Milwauke	e Grand Rapids
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3. Add more to your ma Add map notes to on the map.	Monta States and States Transford Tr	Canvas	Canvas	Ruo Grazz	KANSAS Arkansas	MISSOURI	Chi <sup>o</sup> CLouisville KENTUCKY
Display descriptive te and charts for map fe pop-up.	National Geographic	Terrain with Labels	Oceans	NEW MEXICO	Oklahoma City OKLAHOM	A ARKANSAS	Ille Knoxville Knoxville C NNESSEE Greenville
4. Save and share your n Give your map a nam description then shan people.				El Paso	o Da TEXAS Austin	Illas Bir Louisiana	
Esri.com . ArcGIS Marketplace Terms of Use . Privacy . Conta	OpenStreetMap	USA Topo Maps	USGS National Map	Chihuahua d	San Antonio	Houston New Orle	

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as "public" information	Browse Living Atlas Layers
Browse Living Atlas Lavers	Add Layer from Web
Search Esri's curated GIS data some	Add Layer from File
restrictions apply	Add Map Notes
Add Layer from Web	
Add GIS data from a GIS web server	
Add Layer from File	
Upload GIS data from your computer	
Add Map Notes	



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CONNECTICUT DEPARTMENT of ENERGY and ENVIRONMENTAL PROTECTION  ArcGIS REST	Services Directory
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Maps Data into Peatured      Folder: O      Current Vers      View Footpr      Service:      Se	sion: 10.4 ints In: ArcGIS Online map viewer pace/J997. Municipal and Private Open Space (MapServer) pace/DEFP Property. tiled (MapServer) pace/DOT Scenic Land Strips (MapServer) pace/Potor Jopen Space 1997 (MapServer) pace/Parcels for Open Space Mapping (MapServer)

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ervices:	Type: Feature Layer Geometry Type: estilosometryPolygon Description: 1997 Municipal and Private Open Space Property is polygon feature-based data that includes land owned in fee simple interest by the municipalities, land trusts, and other private entities with in the State of Connecticut. These data are based on information collected from each Connecticut municipality up to 1997 and mapped at 1:24,000 scale
Open Space/1997 Municip	all enerally, partial interests such as easements or development rights are not included in this layer. Types of property (categories) in this layer include cemeteries, conservation land existing preserved open space, general recreation land, preservation land, recreation land, schools and uncategorized land. This layer is not current and has not been updated sinc its creation in 1997.
Open Space/DEEP Propert     Open Space/DEEP Propert	Copyright Text: CT DEEP
Open Space/DOT Scenic	Default Visibility: true     MaxRecordCount: 1000
Open Space/Federal Open	Supported Query Formats: JSON, AMF, geoJSON
Open Space/Parcels for C	Min Scale: 1500100
Open Space/Protected Op	Supports Advanced Queries: true
<u> </u>	Supports Statistics: true Has Labels: true
	Can Modify Layer: false
	Can Scale Symbols: false

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## **Adding Data to Your Map**

- Search for Layers
  - Search all GIS data registered by AGOL users as "public" information
- Browse Living Atlas Layers
  - Search Esri's curated GIS data, some restrictions apply
- Add Layer from Web
   Add GIS data from a GIS web server
- Add Layer from File
  - Upload GIS data from your computer
- Add Map Notes
  - Create a new data layer in your map



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Saving Your Map	)			\$ ◆
Content				۲
<ul> <li>Saved content an</li> <li>Web maps</li> </ul>	id uplo	aded content		•
Saved layers (map	notes)			•
Uploaded content	(data, ir	nages)		۲
• 50+ content types				
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	Add Item 🗄 Create	Q Search CaryC	My Content My Favorit	es My Groups Living Atlas
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Filters	Turne	Touring the Historic Connecticut Valley Railroad     Touring the Historic Connecticut Valley Railroad	Web Map	<ul> <li>③ ★ ··· Jan 18, 2019</li> <li>③ ★ ··· Jan 18, 2019</li> </ul>
Map Laye Score	os ers nes	CTVRR Redo  The CT Valley Railroad Web Map - CC  The CT Valley Railroad Web Map - CC	Web Map Web Map	<sup>1</sup> / <sub>2</sub> ★ ···· Jan 10, 2019 <sup>1</sup> / <sub>2</sub> ★ ···· Jan 9, 2019
Аррэ Тооры	os Is	Connecticut's Old Valley Railroad	Web Mapping Application	
Files	s e Modified	The Great Fungi Hike of South Kent	Web Mapping Application	@ 🛧 … Dec 5, 2018
> Date	e Created	GPX Test	Web Map	

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Exercise 2a: ArcGIS Online Web Map Basics	
<ul> <li>Navigation tools and search for location</li> <li>Basemaps</li> <li>AGOL toolbar</li> <li>Bookmarks</li> </ul>	
<ul> <li>Measure</li> <li>Add Data</li> <li>Search for Layers</li> <li>Add Layer from Web <ul> <li>Map Service</li> <li>Single Layer</li> </ul> </li> </ul>	
<ul> <li>Working with Layers</li> <li>Reorder layers</li> <li>Rename a layer</li> <li>Save your map!</li> </ul>	• • • >



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Working wi	th Data in t	he Web Map	
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Legend State Park State Park State Park	Simple Legend Scenic Reserve State Park or Preserv Trail State Park or Preserv Frail State Park or Preserv	Property           ve         Above All State Park Scenic Reserve           ve         Airline State Park Trail (North Trail)           ve         Airline State Park Trail (Northern Section)           ve         Airline State Park Trail (Northern Section)	GIS Acres • 24.00 • 65.04 • 201.35 •

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Exercise 2b: Working with Data in the Web Map	
Feature attributes	
<ul> <li>Symbology (Style)</li> </ul>	•
Creating a Filter	۲
<ul> <li>Updating the Legend</li> </ul>	۲
<ul> <li>Working with Tables</li> <li>Selecting records</li> <li>Sorting</li> <li>Summary statistics</li> </ul>	
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<u>Crea</u>	ting a Lay	er			CLEA
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• Sa Create Title: Tags: Summary: Save in fold	tem Historic Stations CTVRR × AGOL workshop × Add tag(s) A map note showing sites of historic CTVRR statio etr: CaryC	ns. v CANCEL	T Add Item     Create     Q. Search finit       Folders     Shew     1 - 16 of 21 in Emily       Q. Fitter Folders     The       Q. All My Content     The       Q. Emily Wilson     P Hasteric St	My Content         My Favorites         My Groups         Living Atlas           WWison         I Table         I Dee Modified         III Filer           WWison         III Table         I Dee Modified         III Filer           Wilson         III Table         III Table         III Filer           Wilson         III Table         III Table         III Filer           Istractions         Feature Layer         III III Filer         III Filer	










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Part II Story Maps	Â
What is a Story Map?	•
• Why?	
• What	
• Types	
• Explore	•
<ul> <li>How Story Map (Journals) Work</li> </ul>	•
• Big Picture	۲
<ul> <li>Steps</li> </ul>	۲
• Tips	۲
<ul> <li>Exercise 3: Build a Story Map Journal</li> </ul>	•
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- ..guides the user while allowing for exploration
  - .. is a multimedia, interesting experience

"Not only did I think it was very well done, **I learned so much!**" My Mom









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Explore	Â
<ul> <li>An Introduction to Story Maps story map</li> <li><u>CLEAR Story Map Gallery</u></li> <li>Connecticut's Changing Landscape Map Journal</li> <li>Connecticut's Coast: Then and Now Map Journal</li> <li>The Bears are Back Map Journal</li> </ul>	
<ul> <li><u>Esri Story Map Gallery</u> - browse by story map app, subject, industry, format or author.</li> </ul>	•
<u>http://s.uconn.edu/storymaps#part2</u>	•



UCONN UNIVERSITY OF CONNECTICUT	CLEAR
Part II Story Maps	Â
<ul> <li>What is a Story Map?</li> </ul>	•
• Why?	
• What	
• Types	•
• Explore	•
<ul> <li>How Story Map (Journals) Work</li> </ul>	•
<ul> <li>Big Picture</li> </ul>	۲
<ul> <li>Steps</li> </ul>	۲
• Tips	۲
• Exercise 3: Build a Story Map Journal	۲
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St	Exps First, a story to tell	<b>^</b>
1.	Mockup	•
2.	Assemble media (photos, videos, links, docs, etc.)	
3.	Assemble geographic data	
4.	Create ArcGIS Online map(s)	
5.	Publish AGOL maps including symbology and popups	<b>,</b>
6.	Create Story Map	۲
7.	Add media	۲
8.	Use Actions	•
9.	{Customize}	
10	. Review, Edit, Repeat	
11	Publish!	•
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2. Identify a	and collect other media	Â
<ul> <li>photos</li> <li>graphics</li> <li>videos</li> <li>links</li> </ul>	Must be online flicker, facebook, ArcGIS Online, anywhere with a URL	•
<ul> <li><b>3. Assembl</b></li> <li>GIS Files</li> <li>GPS files</li> <li>Spreadsheet</li> <li>Map and image</li> </ul>	<b>e existing geographic data</b> ts age services	















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8. Use	Stage Optio	ons						
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CHANGE THE	MAIN STAGE CONTENT							_
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8. Use Stage Optio	ns
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flickr facebook	CHANGE THE MAIN STAGE CONTENT
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	URL An image URL should start with http:// and end with .jpg or .png
	Position
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8. Use Stage Opt	tions
Video	Main Stage Side Panel
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CHANGE THE MAIN STAGE CONTENT	
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Web page	Main Stage Side Panel
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Webpage URL  http://www.esri.com  CR  Embed code	Configure   Anything online! Includes pdfs! http://">Don't say good-bye to



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Steps	
<section-header><ol> <li>Mockup</li> <li>Assemble media (photos, videos, links, docs, etc.)</li> <li>Assemble geographic data</li> <li>Create ArcGIS Online map(s)</li> <li>Publish AGOL maps including symbol of geographic data</li> <li>Create Story Map</li> <li>Add media</li> <li>Use Actions</li> <li>{Customize}</li> <li>Customizes</li> <li>Review, Edit, Repeat</li> <li>Publish!</li> </ol></section-header>	● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●





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Tip: Use the HTML code editor	
• Too many spans = freak out. Clean t	hem up.
<ul> <li>Add other html features</li> </ul>	۲
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<div class="image-container"> <img <br="" alt="" src="http://clear.uconn.edu/projects/landscape/storymap/divider_green_trends.png"/>/&gt; </div> <span style="font-size:20px"><span style="color:rgb(77, 130, 66)">Between 1985 and 2010, Connecticut </span></span>	Side Panel
<div class="image-container" style="text-align:right"> &lt;<u>img</u> alt="" <u>src</u>="<u>http</u>://<u>clear.uconn.edu</u>/projects/landscape/<u>storymap</u>/h<u>forchg3.png</u>" /&gt; </div>	F Z <sub>x</sub> Size · <u>A</u> · Bint ∞ ∞ ← → D X IE 19 E Ξ Ξ Ξ Main Stop → Do ™ S ∞ ∞ Source
<div class="image-container" style="text-align:right"><span style="font-&lt;u&gt;size:20px&lt;/u&gt;"><span style="&lt;u&gt;color:rgb&lt;/u&gt;(77, 130, 66)">or 6.5%<u>snbsp</u>;of its forest land.</span></span></div> snbsp;	as provide absorption and natural pollutant processing for urface waters. Overall forest cover is tied to watershed sts also provide carbon storage and wildlife habitat.
<pre>From a state of almost complete deforestation in the 19th century, forest has rebounded to be the most common land cover in the state.shbsp; However, fueled by increasing development, forest cover is now the category with the largest losses in the 25-year study period.shbsp; Averaged over the study period, the 190 square mile loss equates to <span style="font-&lt;br&gt;size:36px"><span style="color:#d8242">13.3<span style="font-size:26px"> acres/day.</span></span></span></pre>	st cover by town or 2010 forest cover. amples: Stafford, East Haddam (most forest area). Inion (highest forest %). New London (least forest area). ————————————————————————————————————
<strong>Explore the change maps:</strong>	985 and 2010. Connecticut
<pre><ul> <li><ul> <l< td=""><td></td></l<></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></li></ul></pre>	








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## The Connecticut Valley Railroad: Then to Now

By the University of Connecticut, Center for Land Use Education and Research (CLEAR) for use in Geospatial Training

The introduction of the Connecticut Valley Railroad in 1871 offered a faster and more efficient way to transport both goods and people through the Connecticut River Valley.

During the 19th century, Hartford, Connecticut was one of the fastest growing cities in the United States. Goods and people traveled daily from the city to seaports on the coast primarily by steamboat. The introduction of the Connecticut Valley Railroad offered a faster alternative for both. Although the line is now used exclusively for tourism and recreation, the Connecticut Valley



## Demo

- Exercise 3 Building a Story Map Journal
- Demo
- Exercise 3 continued









	) CLEAR
"Point on a Map"	Â
<ul> <li>Map Tour is essentially Points on a Map</li> <li>Manually create via point and click to add locations and media</li> <li>Bulk upload via formatted CSV</li> <li>AGOL web map will be created in tandem with Map Tour story ma and saved to your Contents. Do not delete.</li> </ul>	p •
Map Tour Tips:	•
<ul> <li>AGOL Org accounts can upload/store images on AGOL</li> </ul>	•
<ul> <li>All other images should be reference via URL and optimized (landscape, 4:3, 400 KB) for story map tour.</li> </ul>	•
• Try video!	•
<ul> <li>Format caption text with standard HTML tags</li> </ul>	۲
<ul> <li>99 or fewer points</li> </ul>	•
<ul> <li>Download and self-host to further customize</li> </ul>	
<ul> <li>Layers can be added to web map, but ability to interact is limited.</li> </ul>	
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Using Existing	g Place Data in Map Tour	⇒ >			
CSV format		•			
<ul> <li>Photo or videos referenced by URL (already on the web)</li> </ul>					
Esri Map Tour fiel	SBticket         longitude         latitude         pic_url         thumb_url         is_video         Town           in         \$1.40         -72.4048169         41.3501474         https://clear.uconn.edu/https://clear.uconn.edu/geospatial/wc         Essex           er         \$1.30         -72.4265276         41.3941724         https://clear.uconn.edu/ttps://clear.uconn.edu/geospatial/wc         Essex				
Chester Station       The original Chester Sta       \$1.20       -72.433496       41.406893       https://clear.uconn.edu/https://clear.uconn.edu/geospatial/wc       Chester         • Required Fields       Map Tour will ignore       •					
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	CLEAR
<b>Revisiting Learning Objectives</b>	
<ul> <li>Introduction to Web GIS</li> <li>Understanding Esri's ArcGIS Online Infrastructure</li> <li>Web Maps – building, customizing, using</li> <li>Access and use of online GIS data</li> <li>Sharing – links, embed, apps and</li> <li>Story maps!</li> </ul>	



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So much more!	http://s.uconn.edu/storyn	naps 🏠
• Work on the Map Jo	ournal and/or Map Tour	•
Complete any rema	aining extra credit	۲
Customize the Map	Journal	۲
• Explore completed	story maps	•
• Explore other story	map templates	
Browse Esri's Story	Map Blog	
• Start your own stor	y map	۲
Where "Cool story i	map, bro!" is a compliment	

