

Table 1: Web Mapping Workshop Series- Learning Objectives, Geospatial Information Literacies, and the ACRL Framework

	<b>Learning Objectives</b>	<b>Geospatial Information Literacies</b>	<b>The ACRL Framework</b>
Intro to Web Mapping	<ul style="list-style-type: none"> <li>◦ Understand a few key basic concepts of web mapping, and why web maps are useful/not useful;</li> <li>◦ Understand the geospatial data creation process has undergone drastic changes over the past two decades, and what this means to you in terms of creating, using, and communicating geospatial information.</li> <li>◦ create an interactive web map on AGOL and publish it;</li> <li>◦ Understand the limitations to using AGOL for creating a web map.</li> </ul>	<p>The BoK:            Identify examples of static, animated, and interactive web maps;            Explain client-server architecture;            Design, construct and publish an interactive web map.</p>	Authority is contextual and constructed Information creation as process
Web Mapping with R	<ul style="list-style-type: none"> <li>◦ Understand a few basic concepts of web mapping: map tiles, pop-up, web mapping APIs;</li> <li>◦ Create a simple interactive web map using Leaflet for R;</li> <li>◦ Create a R Markdown file and publish it as a Github page;</li> <li>◦ Become more conscious about the decisions in publishing a web map: who the target audience is, and what is the most suitable format for communicating the map with them?</li> </ul>	<p><i>cyberliteracy for GIScience:</i>            computational thinking            interdisciplinary communication</p> <p>The BoK:            Explain Client-server architecture            Explain how a tiled map mashup is created            Design, construct and publish an interactive web map</p>	Information creation as a process scholarship as conversation
Storytelling with ArcGIS StoryMaps	<ul style="list-style-type: none"> <li>◦ Create a story with integration of various multimedia and map elements.</li> </ul>		Information creation as a process

	<ul style="list-style-type: none"> <li>◦ Understand the differences between two approaches to adding maps: using Express Map and creating/adding maps from ArcGIS Online;</li> <li>◦ Actively think about the best way to use Immersive Templates for telling stories with map elements</li> </ul>		scholarship as conversation
Field data collection with ArcGIS Collector	<ul style="list-style-type: none"> <li>◦ Understand a few key concepts and the connections between them: Feature layer, hosted feature layer(web feature service), web map</li> <li>◦ Be able to use ArcGIS Collector for field data collection, including: <ul style="list-style-type: none"> <li>◦ Publish a feature layer on ArcGIS online, change the settings to enable editing, set up attributes</li> <li>◦ Create a web map which will serve as the interface for adding data</li> <li>◦ Use Collector to add data in the field</li> <li>◦ Enable syncing for off-line use where internet connection is low</li> </ul> </li> <li>◦ Understand the geospatial data creation process has undergone drastic changes over the past two decades, and what this means to you in terms of creating geospatial information.</li> </ul>	<p>The BoK:</p> <p>Explain client-server architecture</p> <p>Design, construct and publish an interactive web map</p>	Authority is constructed and contextual Information creation as a process