

# Data Life Cycle

<b>Topic</b>	<ul style="list-style-type: none"><li>• What are you interested in?</li><li>• What is your research question?</li><li>• How will data help you answer or explore this question?</li></ul>	
<b>Search</b>	<ul style="list-style-type: none"><li>• Where are you searching for existing data or data sets that you can reuse for your research.</li><li>• Is the data you found in the proper format for analysis?<ul style="list-style-type: none"><li>• Is it clean and structured?</li></ul></li></ul>	
<b>Collection</b>	<ul style="list-style-type: none"><li>• Do you need a long-term plan (Data Management Plan (DMP) to manage your data?</li><li>• Do you want to share it with others?</li></ul>	
<b>Storage</b>	<ul style="list-style-type: none"><li>• Where are you going to store the data?</li><li>• Do you want to store the descriptive data/metadata?</li></ul>	
<b>Analysis</b>	<ul style="list-style-type: none"><li>• How will you process your data to explore or answer research questions?</li><li>• What tools (Excel, Tableau) or Scripts (Python, R) will you use?</li></ul>	
<b>Archive</b>	<ul style="list-style-type: none"><li>• Do you want to save your data for the long term?</li></ul>	
<b>Publish</b>	<ul style="list-style-type: none"><li>• How do you want to publish your results, research and/or the data set?</li><li>• Note: Data visualizations are a type of publication.</li></ul>	