



QGIS: USING OPEN SOURCE GIS FOR GEOPROCESSING AND MAPPING

KAMP PROFESSIONAL DEVELOPMENT OPPORTUNITY!



College of Arts & Sciences
GEOGRAPHY

LOCATION: University of Kentucky Department of Geography - GIS and Spatial Analysis Lab, Whitehall Classroom Building, Room 311 & 313

DATE: Tuesday, June 27, 9:00 AM – 5:00 PM

REGISTRATION: \$50 for non-KAMP members; \$25 for KAMP members (seating capacity: 22 participants; first come – first served basis).

PRE-REQUISITES: Familiarity with GIS and an interest in open source (i.e. free) desktop GIS solutions.

INSTRUCTOR: The one-day, onsite short course will be taught by **Boyd Shearer**. Boyd is a University of Kentucky Department of Geography instructor, and principal of outrageGIS mapping. Boyd has taught mapping for over ten years and published maps for twenty-five years. He has extensive experience with ArcGIS and open source mapping tools and his mapping interests focus on topographic maps for navigation and maps for spatial data visualization.



BACKGROUND: QGIS is the leading open source mapping application with a robust suite of geoprocessing and cartographic tools. In fact, and reiterating from the April 27, 2017, [Directions Magazine Webinar](#) “You, GIS, and the Local Update of Census Addresses Operation for the 2020 Census “ by Analisa Rusnack, QGIS is one of the tools chosen in preparation for the 2020 Decennial Census. This 8-hour course will feature QGIS being used to build a complete map-making workflow.

SUMMARY: The course begins by exploring how easily QGIS imports multiple data formats and can create new features within the editing environment. We will introduce how to use spatial databases and SQL to analyze and process our data. We then examine the various methods of classifying and symbolizing our spatial layers, including the unique aspects of map design that QGIS offers, such as custom layer blending modes, and advanced labeling techniques. We conclude the course exploring the options available in QGIS for publishing maps as geospatial PDFs and creating data for web mapping applications. We encourage attendees to bring their custom data, as we will reserve some time to explore how QGIS could help users.