

HANDOUT – RESOURCES

INTRODUCTION

This handout provides a list of resources that include expanded GIS information and instruction beyond what is covered in the workshop, including online resources, articles and books, and tutorials. Some of the subjects included in the resources are based on participant feedback from the sign-up survey, where participants indicated subjects they would like to learn more about but for which there was not enough time in the workshop to cover (such as creating a GTFS feed, monitoring bus performance, and information about bus network redesigns).

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OFFICIAL QGIS DOCUMENTATION

[The QGIS Desktop User Guide/Manual](#) introduces QGIS features and their functionality

[A Gentle Introduction to GIS](#) introduces GIS theory

The [QGIS Training Manual](#) teaches users how to use QGIS with step-by-step tutorials

Note: These documents are updated with each release. The links above pertain to QGIS 3.16, the current long term release.

TUTORIALS AND ONLINE RESOURCES

General

[ArcGIS Lesson Gallery](#) – Esri

[Geographic Information Systems Stack Exchange](#) – Community of cartographers, geographers, and GIS professionals dedicated to asking/answering questions

[Geographic Information Systems \(GIS\): Tutorials and Help Resources](#) – MIT Libraries

[GIS Dictionary](#) – Esri

[QGIS Tutorial](#) – Info GIS Map

[QGIS Tutorials and Tips](#) – Ujaval Gandhi

[Visualize your Data on a Custom Map Using Google My Maps](#) – Google Earth Outreach

Videos

[QGIS Uncovered](#) – Steven Bernard

Finding, Creating, and Using Data

[Census Data Tutorials](#) – US Census Bureau

[Converting a Transit Agency's GTFS to Shapefile and GeoJSON with QGIS](#) – Steven Vance

[Esri Open Data Hub](#) – Esri

[GTFS Builder Guidebook](#) – National RTAP

[How to Extract Highways and Subway Lines from OpenStreetMap as a shapefile](#) – Steven Vance

Tools and Plugins

[Free Geocoding](#) – Geocodio

[Maptiler QGIS Plugin](#) – Maptiler

[Projection Wizard](#)

[Three GIS-based Travel Time Polygon Tools Compared](#) – Eric van Rees

WEBINARS AND PRESENTATIONS

[Webinar: GTFS-Flex](#) – N-CATT

[Webinar: Open Source Software and Open Data](#) – N-CATT

[TRB Webinar: Redesigning Transit Networks for the New Mobility Future](#) – TRB

ARTICLES AND WHITEPAPERS

Finding, Creating, and Using Data

[GTFS Flex: What is it and How is it Used?](#) – N-CATT

[Open Source Software and Open Data: What are They and How to Use Them](#) – N-CATT

Mapmaking

[Free and Open Source GIS Ramblings](#) – Anita Graser

[Make Maps People Want to Look At](#) – Aileen Buckley, Esri

[Transit Maps: What Makes Good Design for a Variety of Uses?](#) – Jarred Toups, Foursquare ITP

Bus Network Redesigns

[TCRP Research Report 221: Redesigning Transit Networks for the New Mobility Future](#) – TCRP

[TCRP Synthesis 140: Comprehensive Bus Network Redesigns](#) – TCRP

Measuring and Monitoring Performance

[Making Transit Count: Performance Measures That Move Transit Projects Forward](#) – NACTO

BOOKS

[A to Z GIS: An Illustrated Dictionary of Geographic Information Systems](#) by Tasha Wade and Shelly Sommer

[Design With Nature](#) by Ian L. McHarg

[How to Lie With Maps](#) by Mark Monmonier

[QGIS Map Design](#) by Anita Graser, Gretchen N. Peterson, and Gary Sherman

[You Are Here: Personal Geographies and Other Maps of the Imagination](#) by Katharine Harmon