

# Geographic Information Systems for Public Policy - Lecture II

## Introduction to QGIS

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# Last Time

- This course
- Introduction to GIS
- GIS and Public Policy

# Today

- GIS Software
- Open Source, Open Science, Open Education
- Lab Logistics
- QGIS
  - Interface
  - Working with projects, files and directories

# GIS Software

# GIS Software

- slides here

Open Source, Open Science,  
Open Education

# Open Source

# Freedoms

1. Free as in Beer
2. Free as in Speech

Open Science

# Open Education

- access to quality education is everyone's birthright
- human knowledge is a public good that should be available to all
- human knowledge is a public good that we all can contribute to

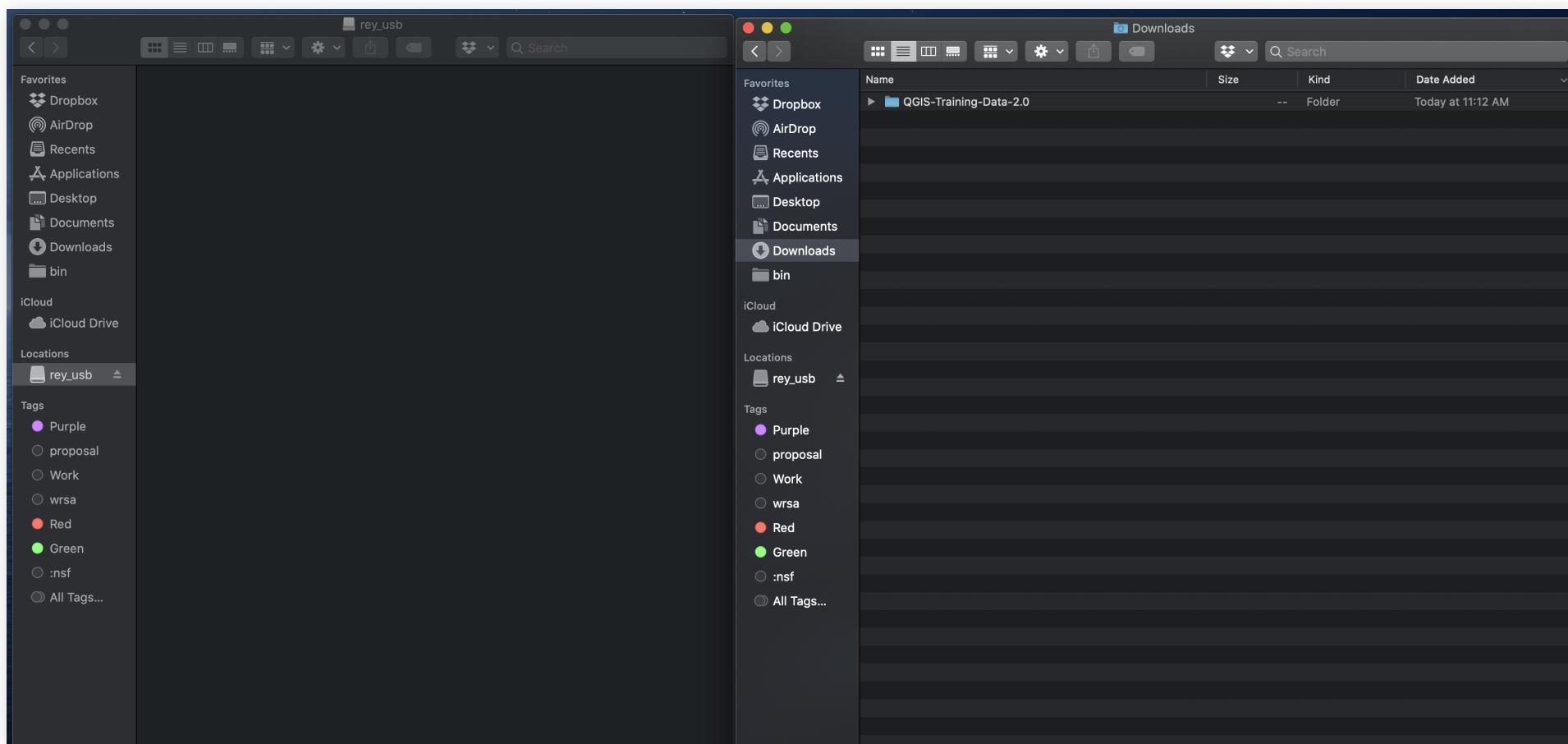
# Lab Logistics

# USB Thumb Drives

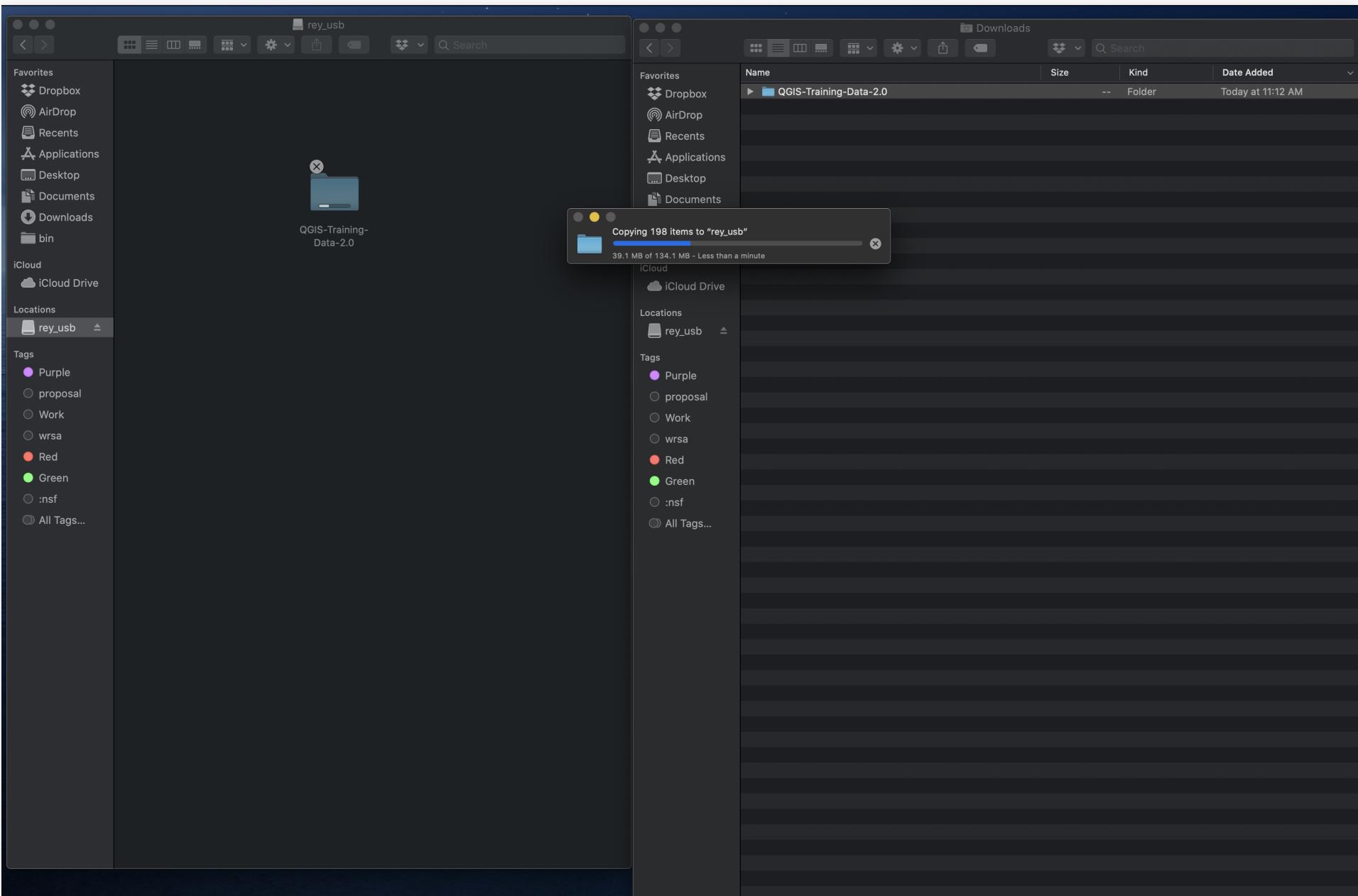
- saving your work
- allowing you to sit at a different lab computer
- allowing you to work outside of the lab
- 2 gigabyte should suffice

# Download Sample Data

# Insert USB Drive



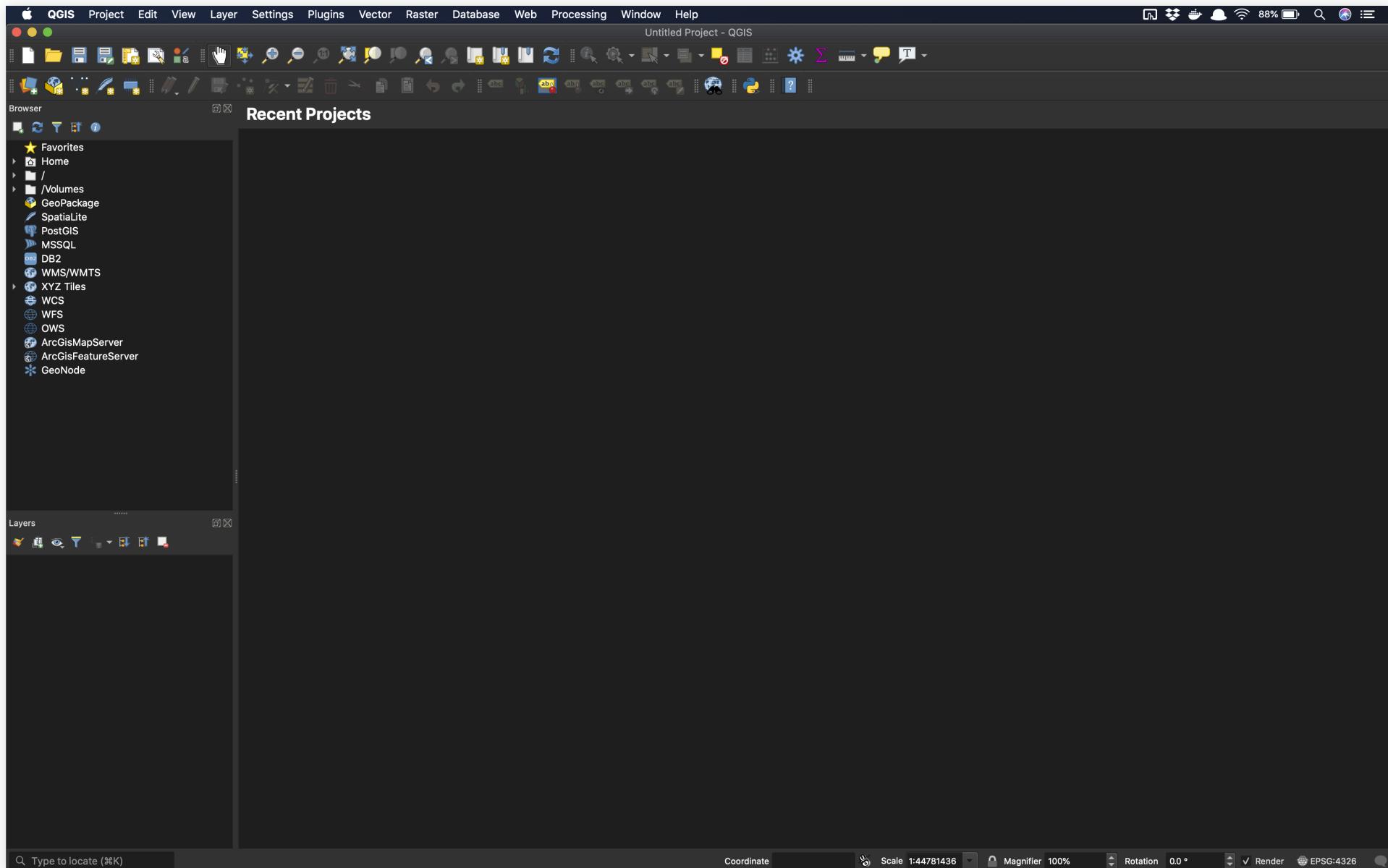
# Copy Data Folder to USB Drive



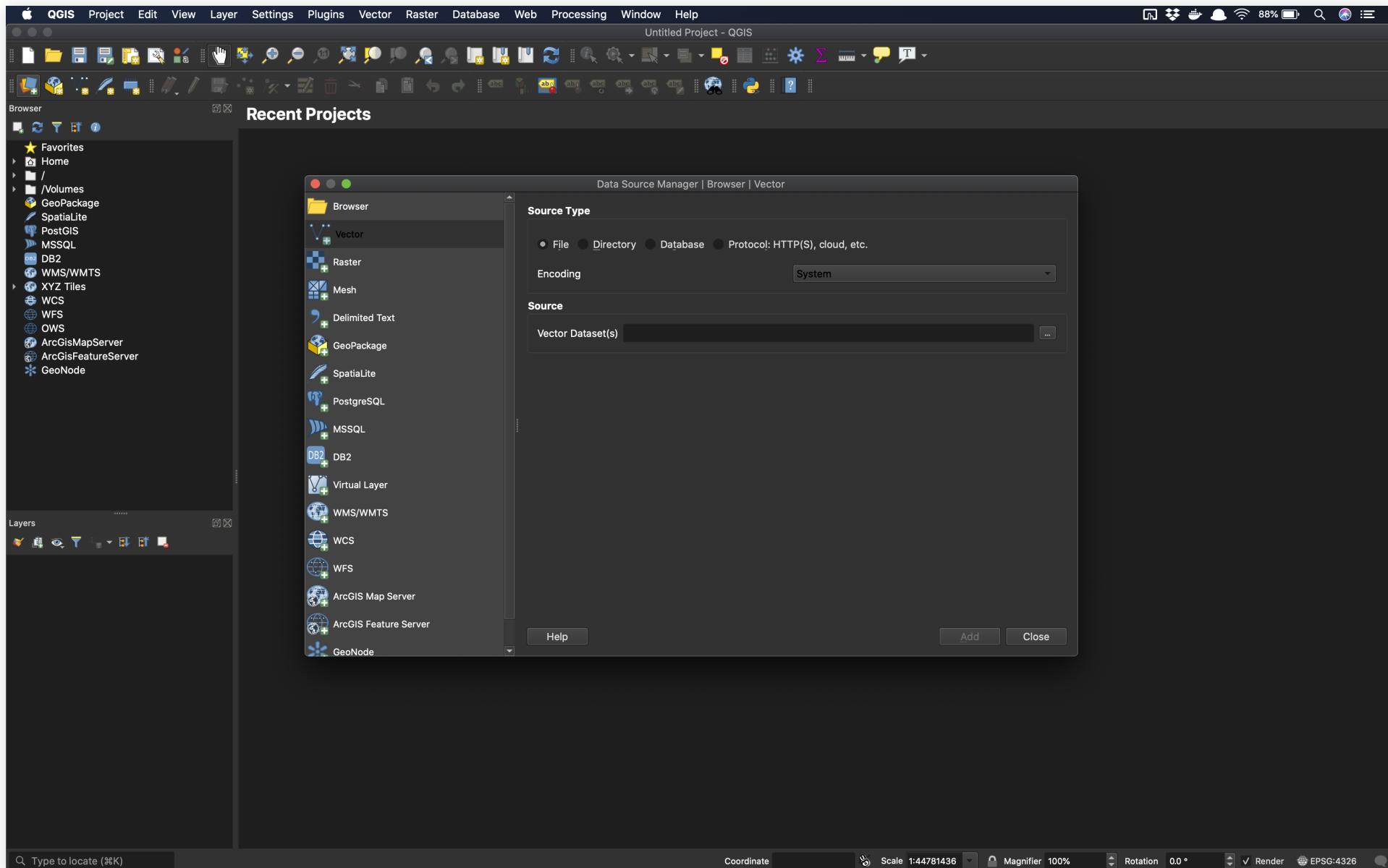
QGIS

QGIS

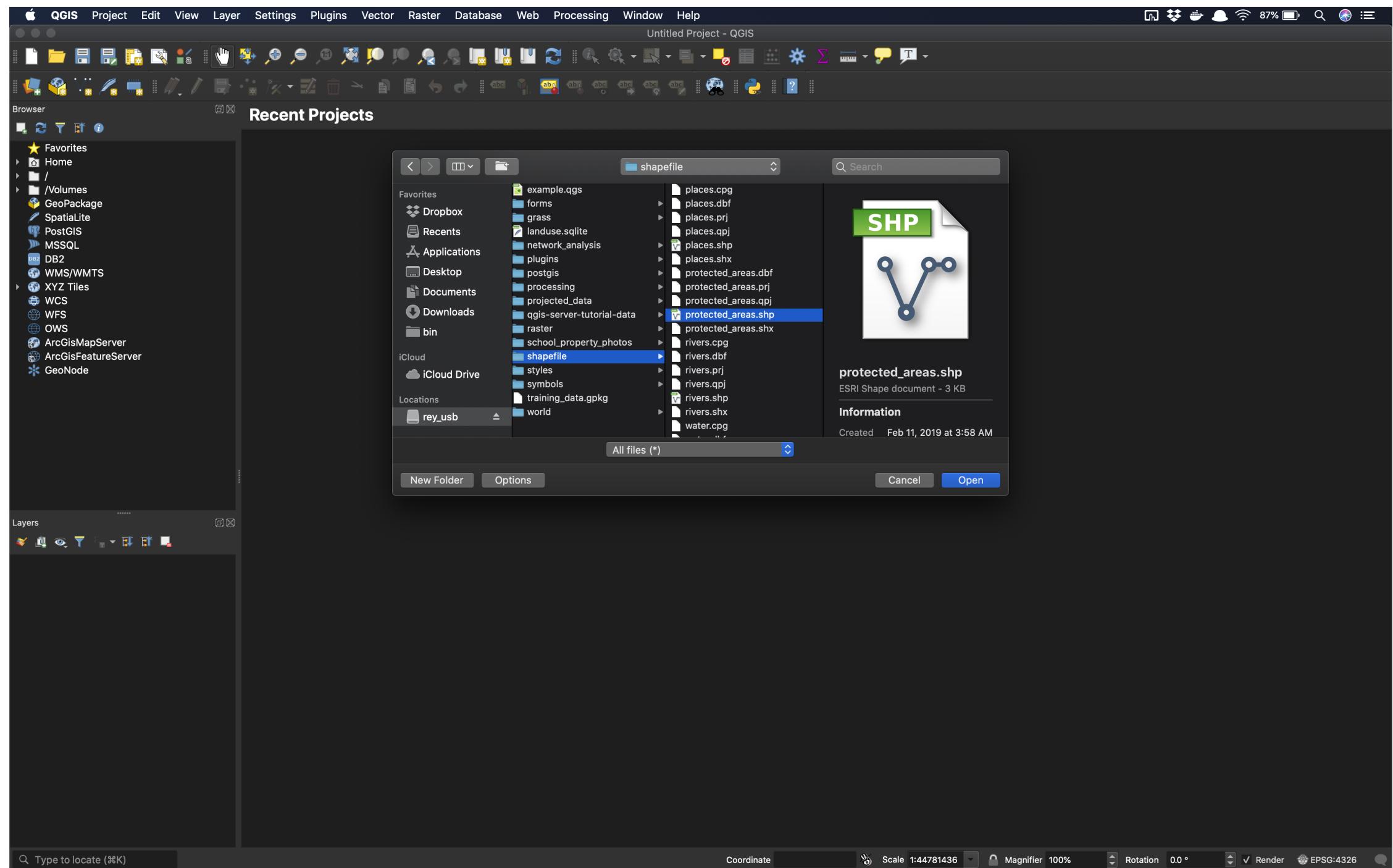
# Open QGIS

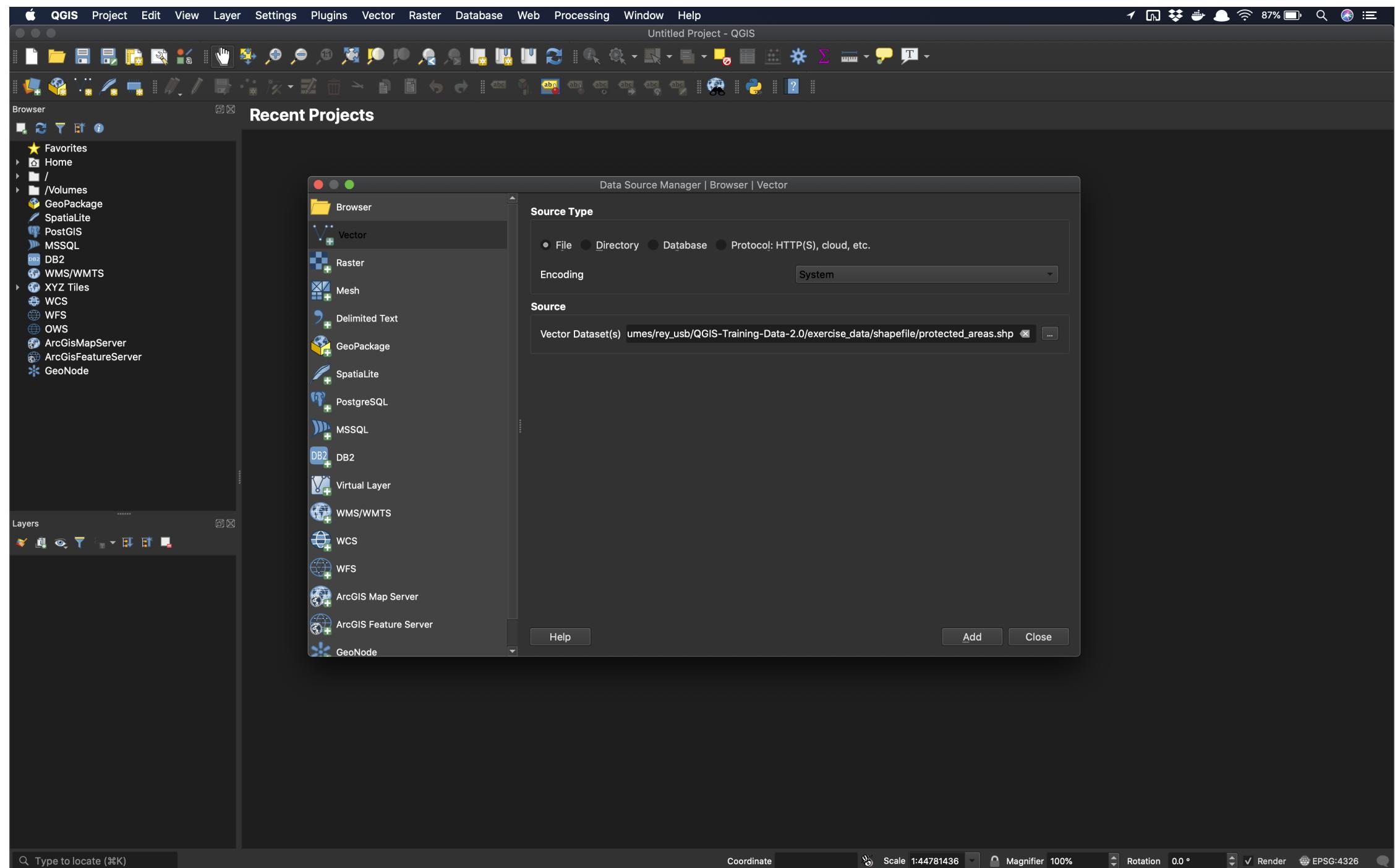


# Load a Vector Layer

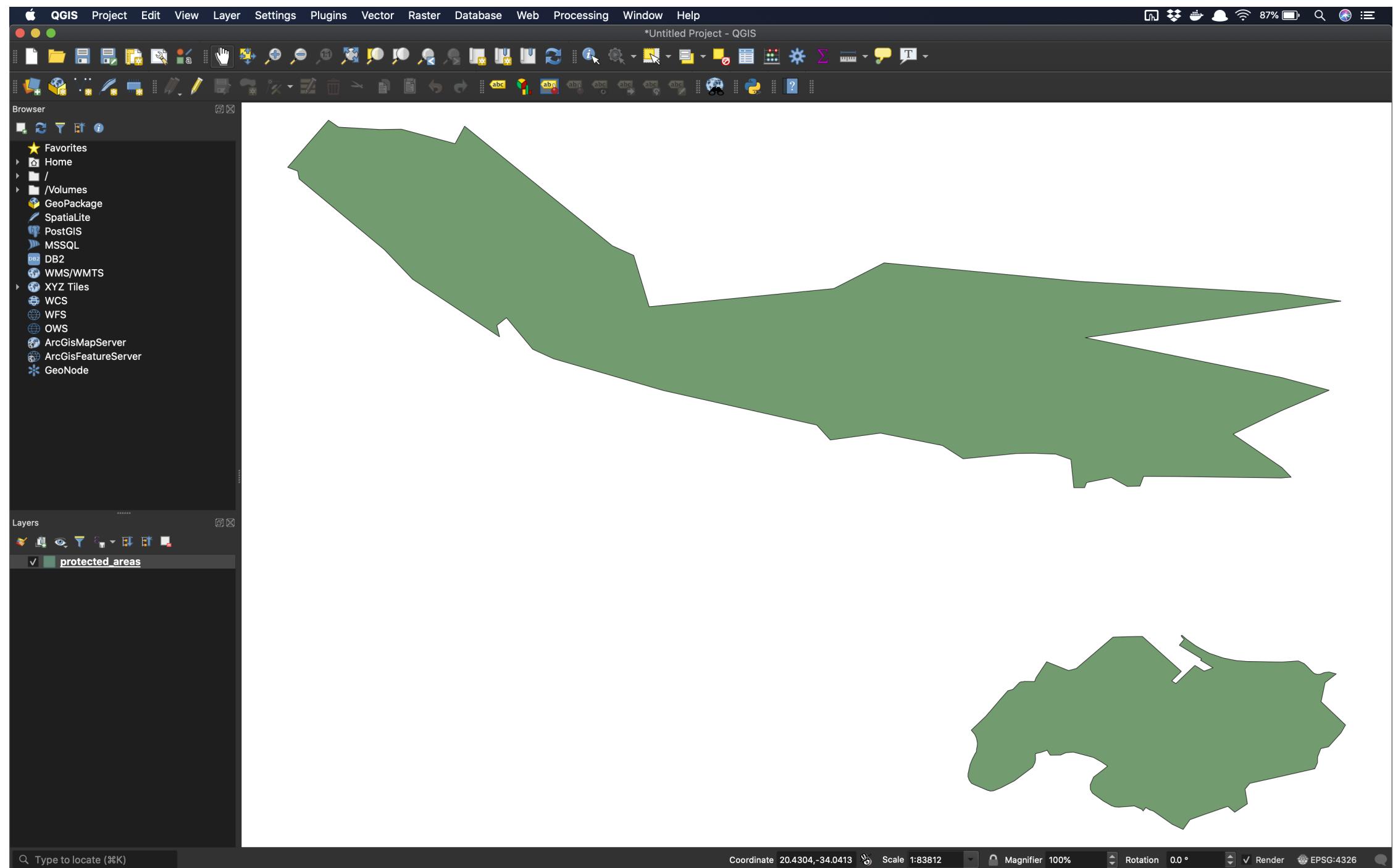


Set path to usb drive



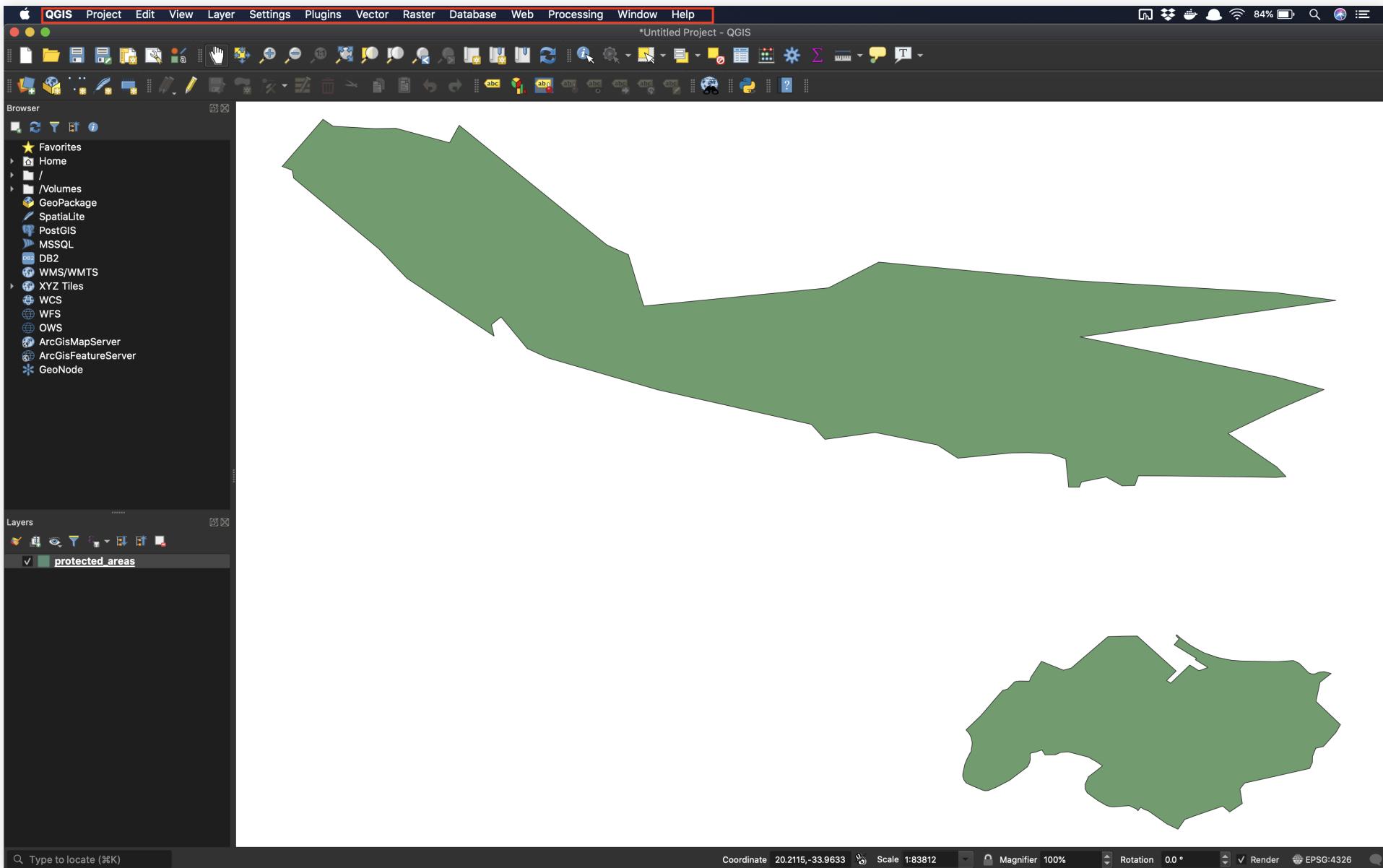


Vector Layer Loaded

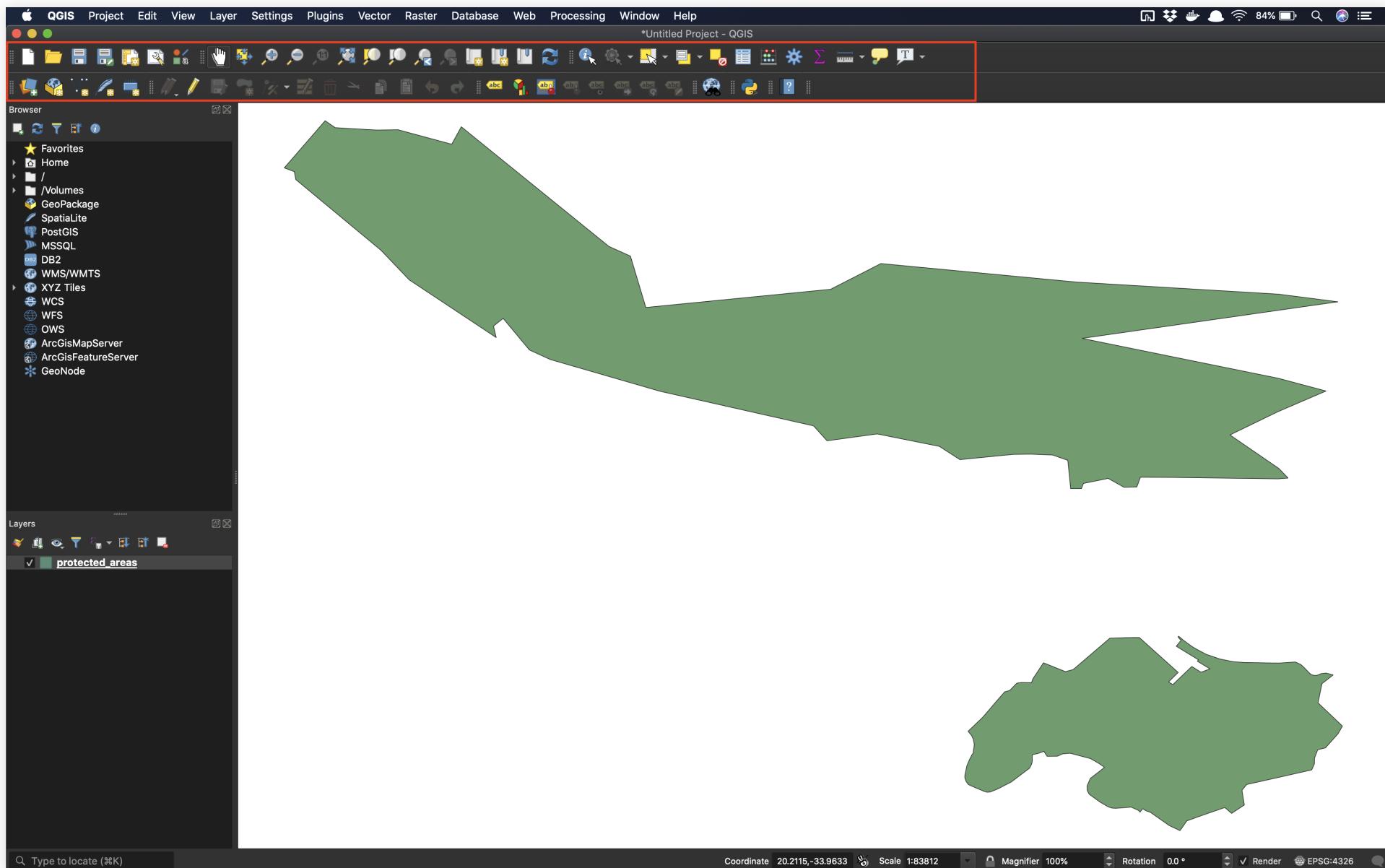


# Interface Components

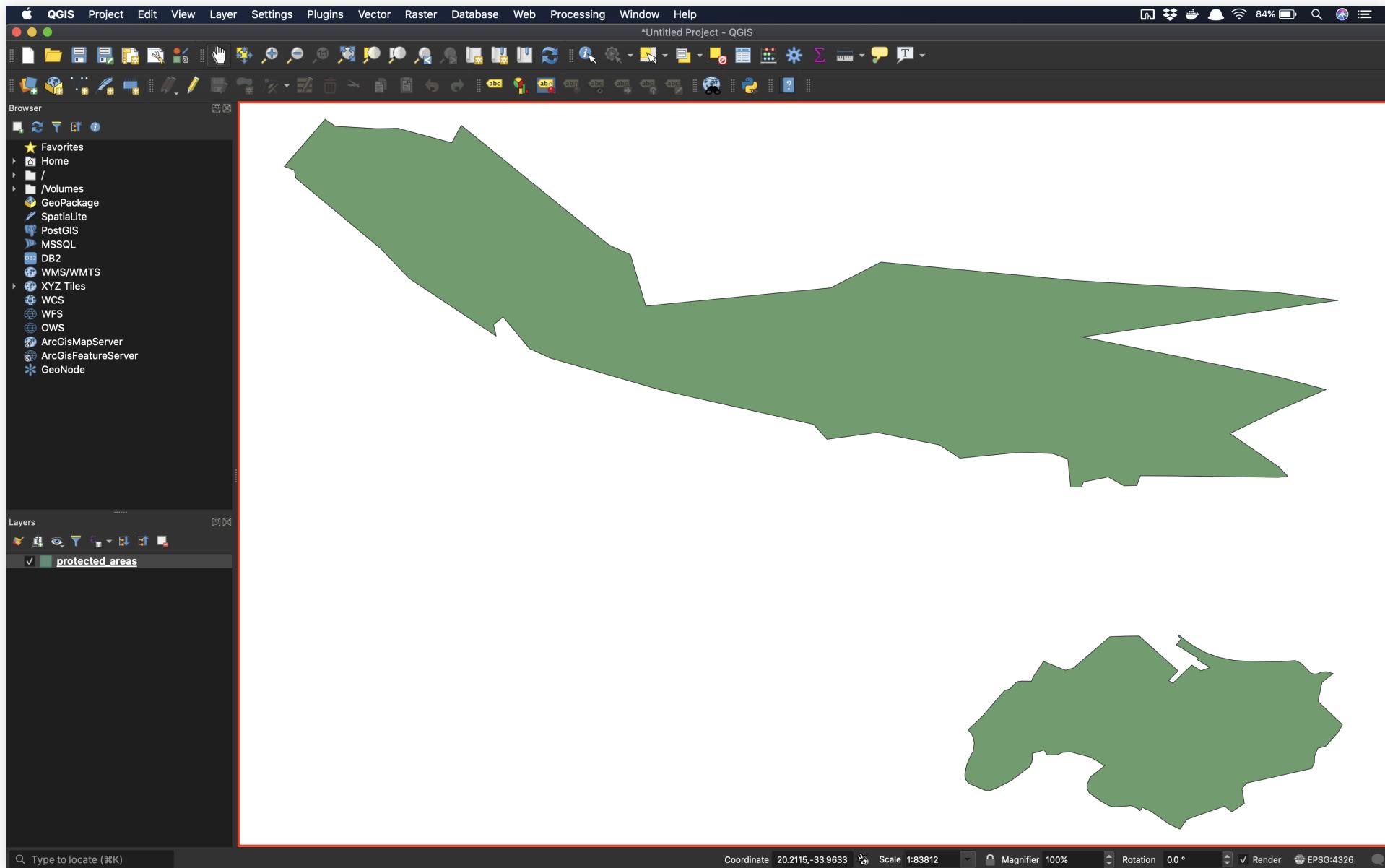
# Menu Bar



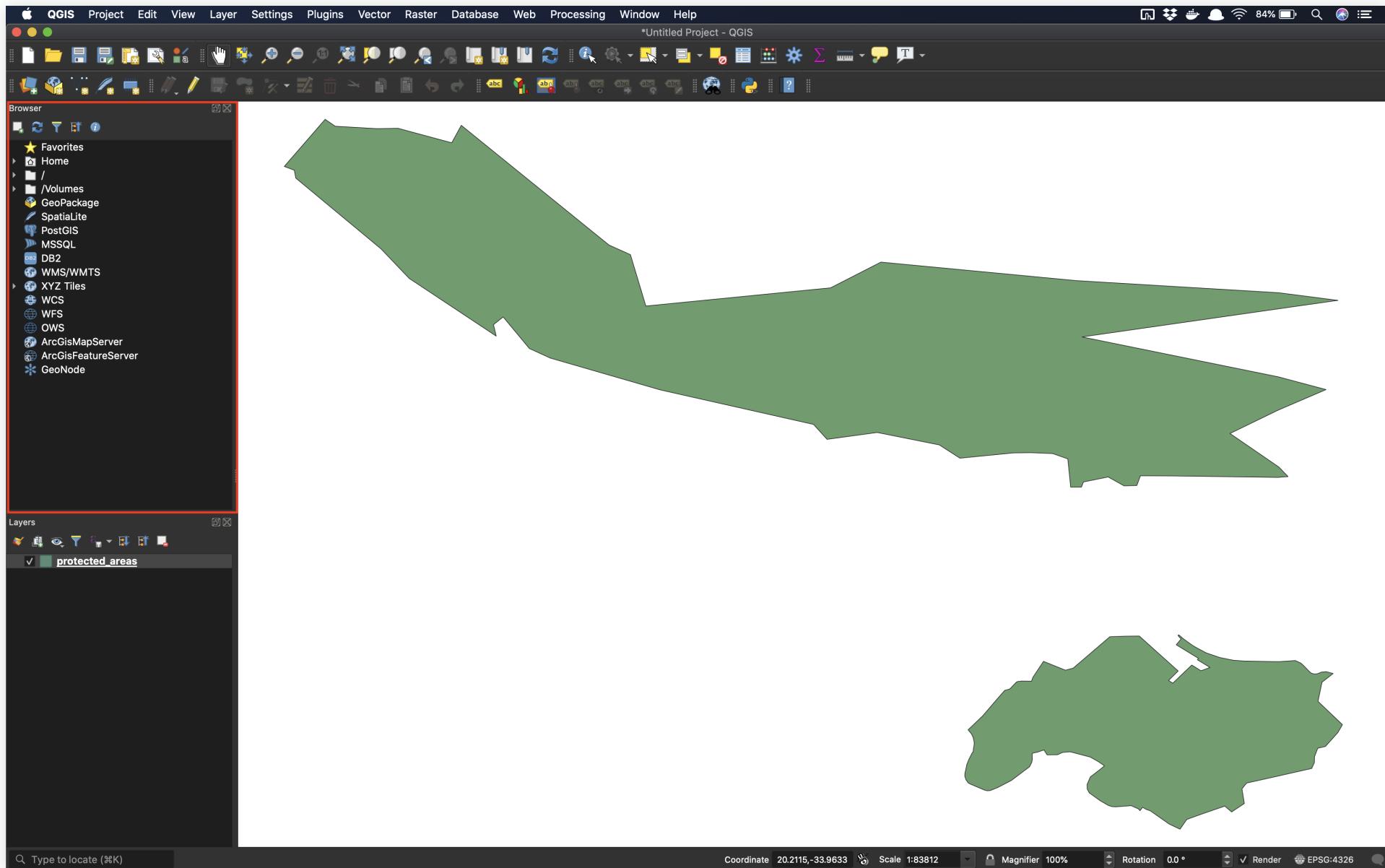
# Tool Bar



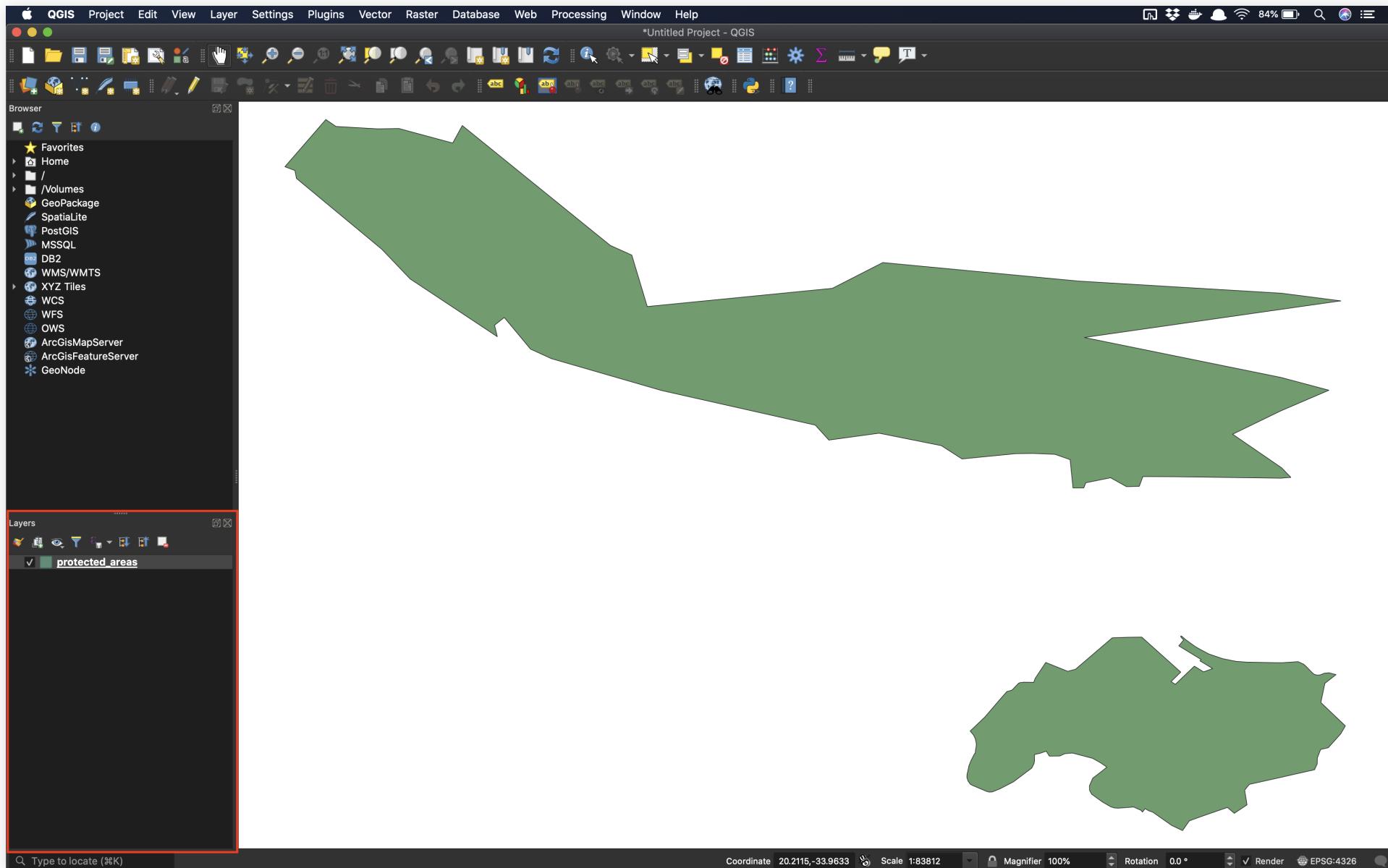
# Canvas



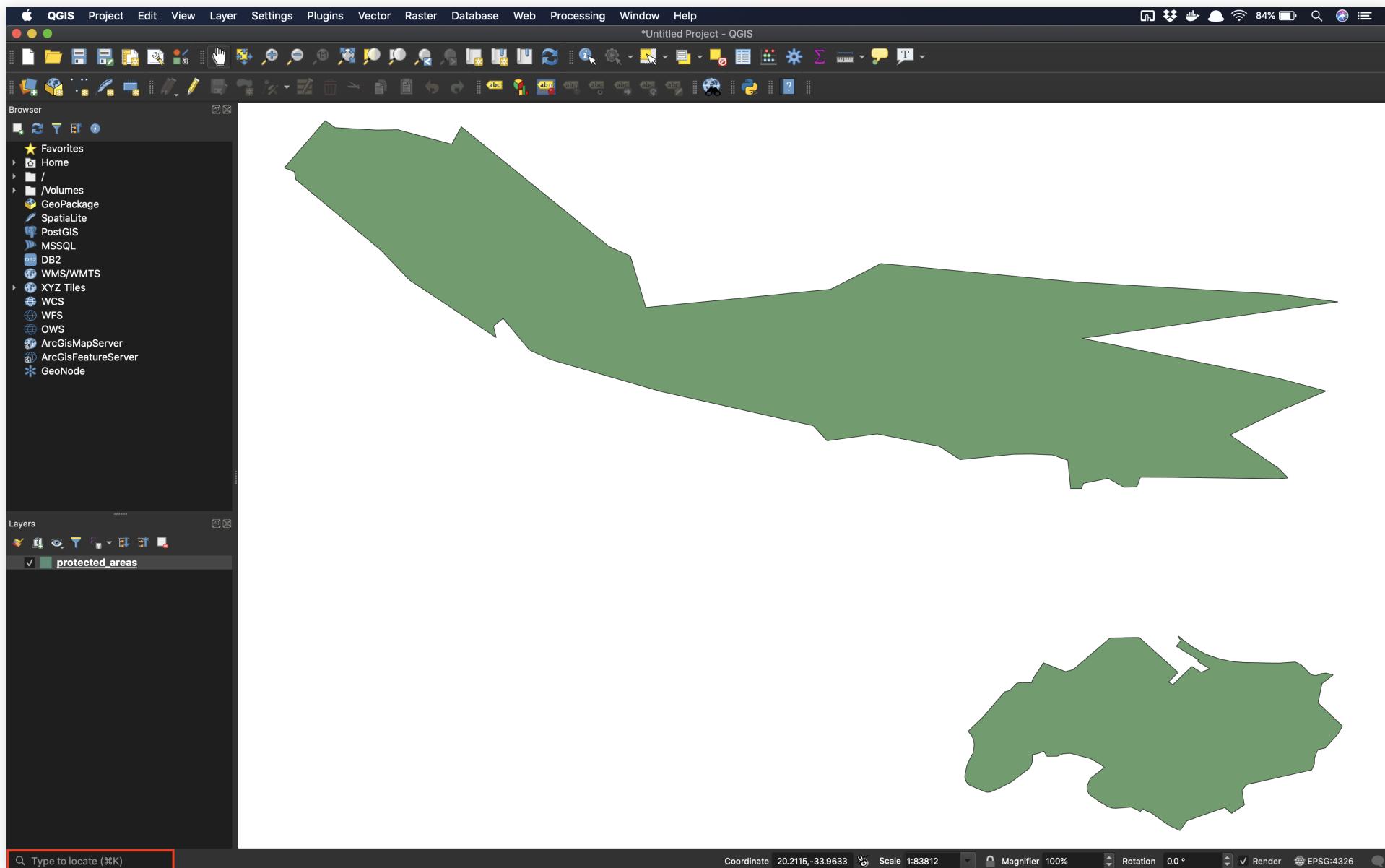
# Browser Panel



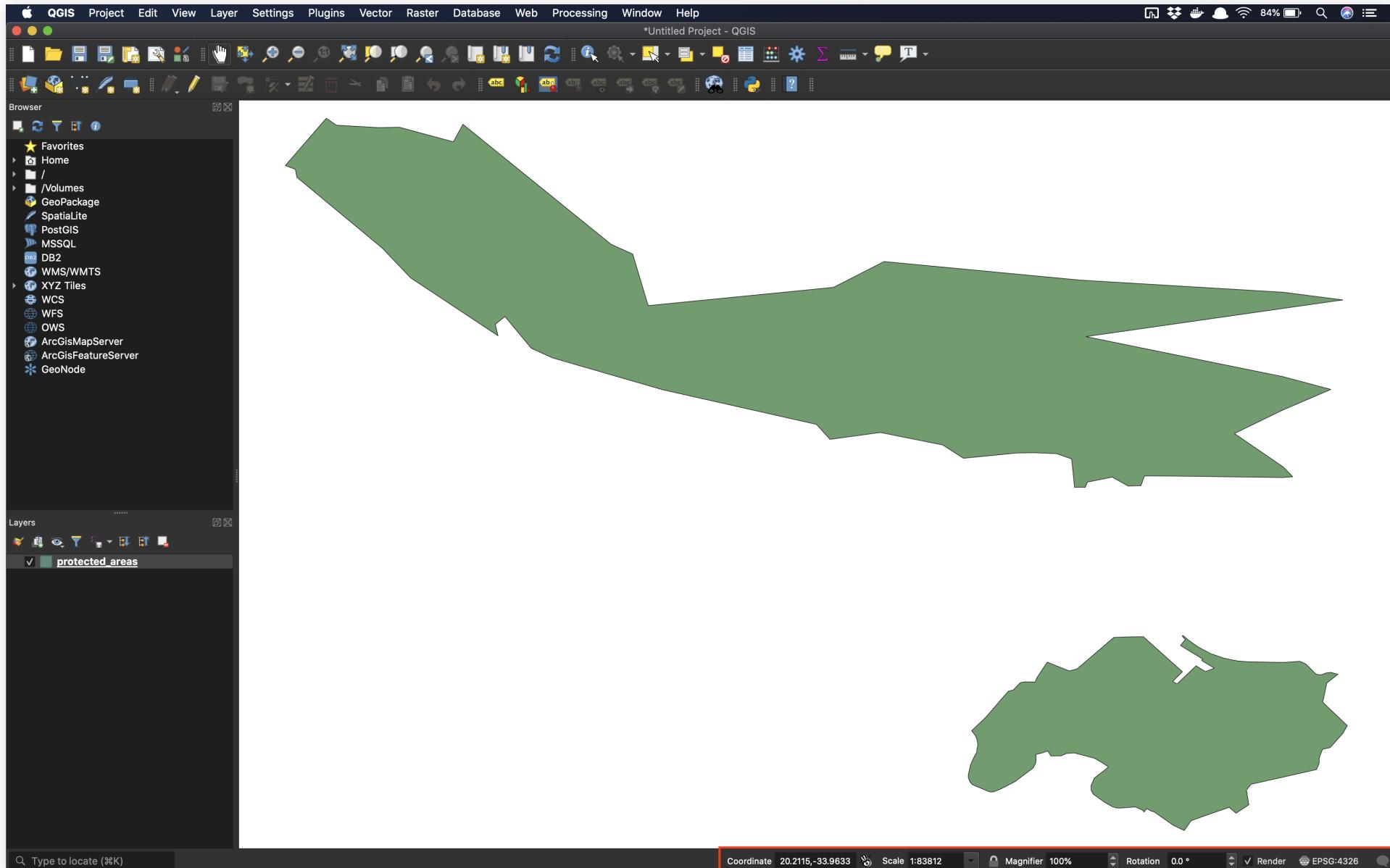
# Layer Panel



# Locator Bar

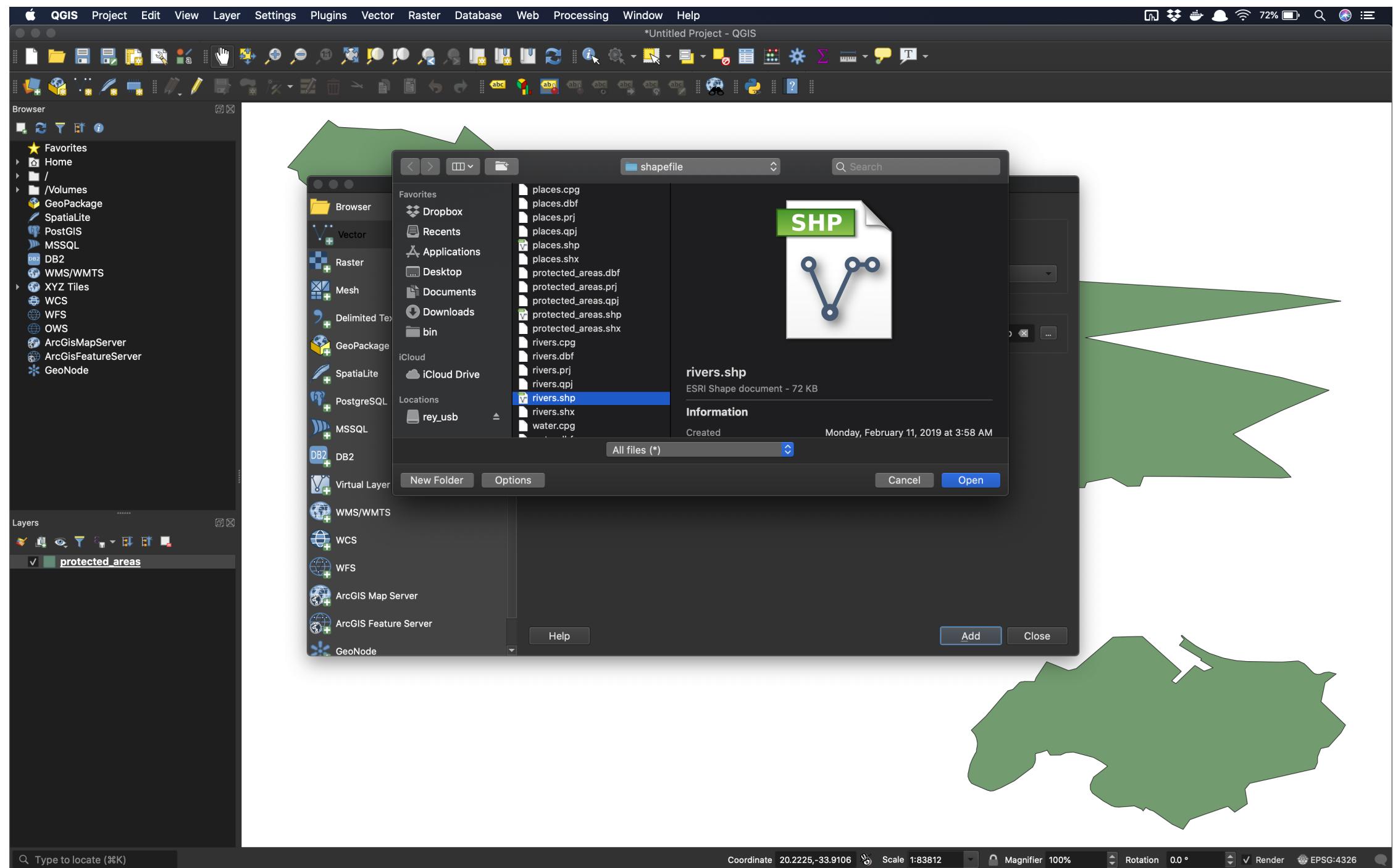


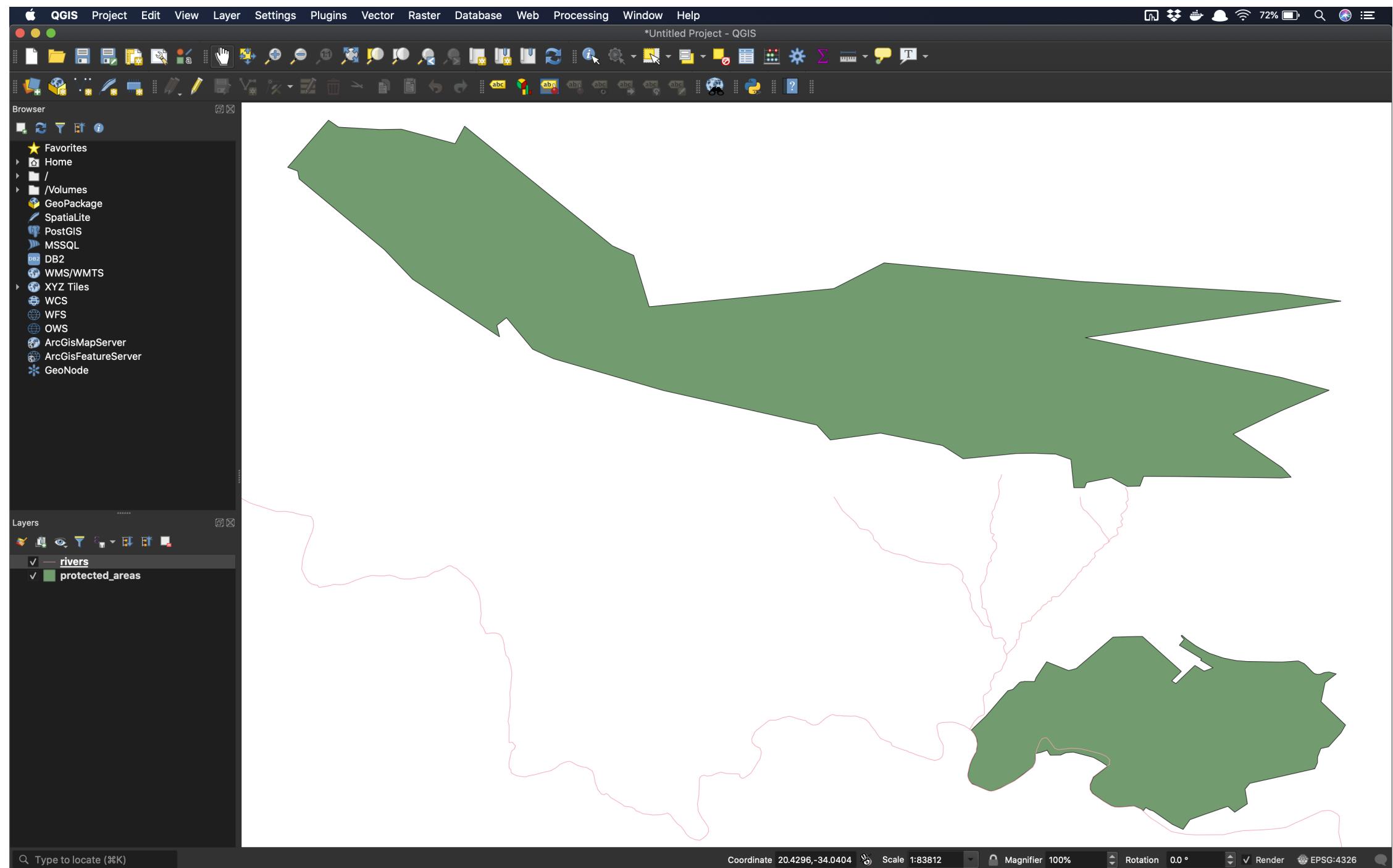
# Status Bar



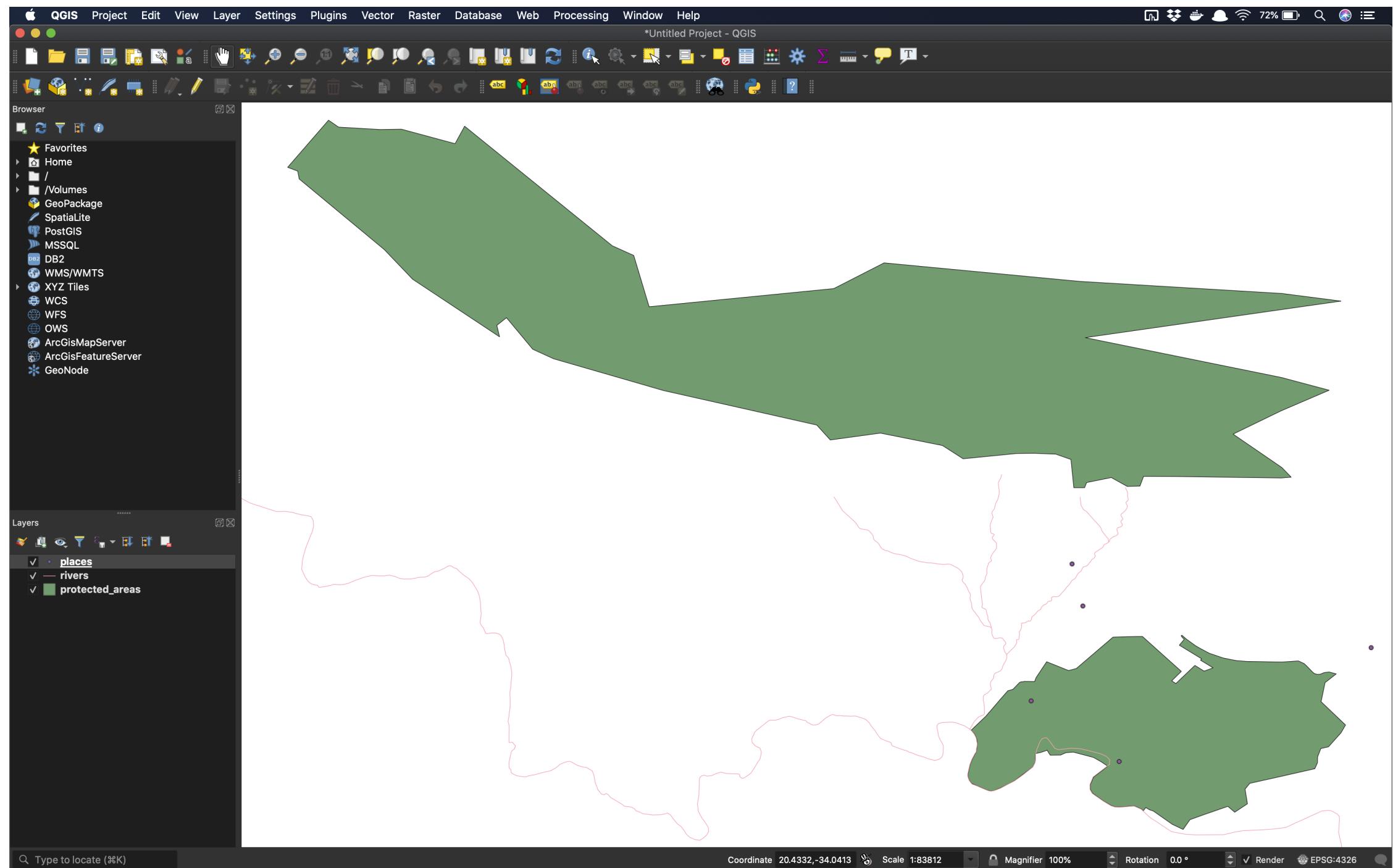
# Working with Projects, Files, and Directories

# Load the Rivers Layer





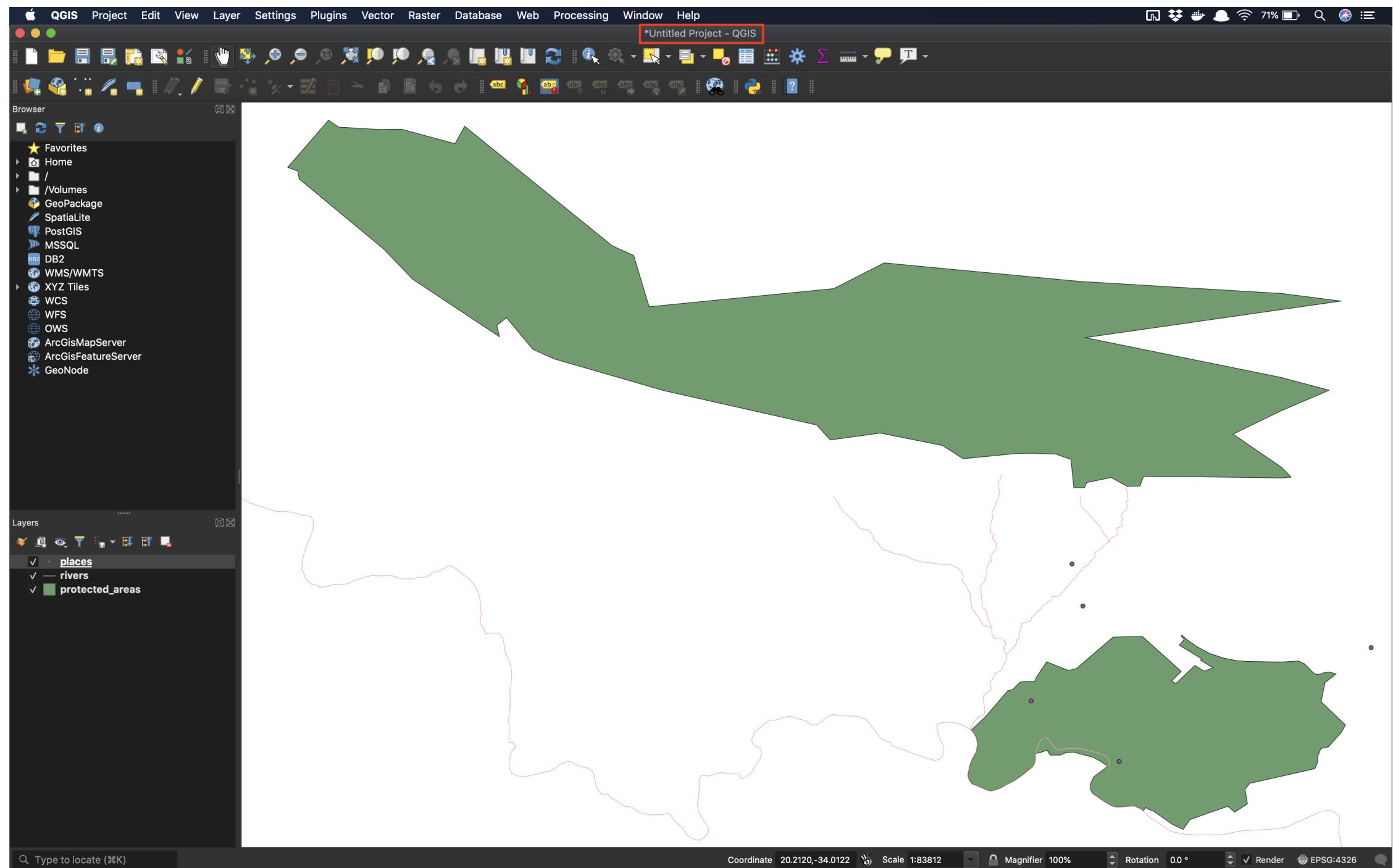
# Load the Places Layer



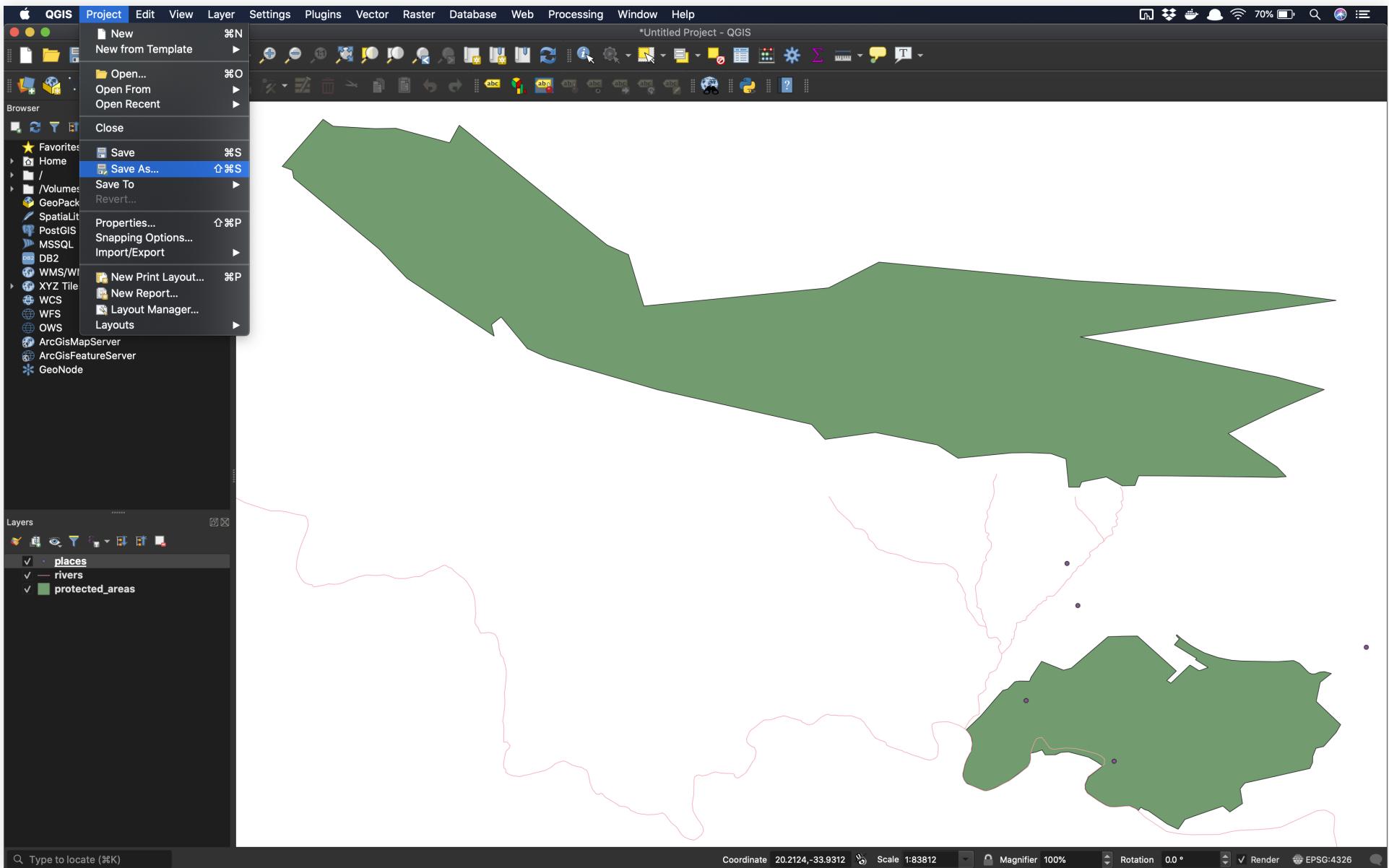
# Projects

# What is a QGIS Project?

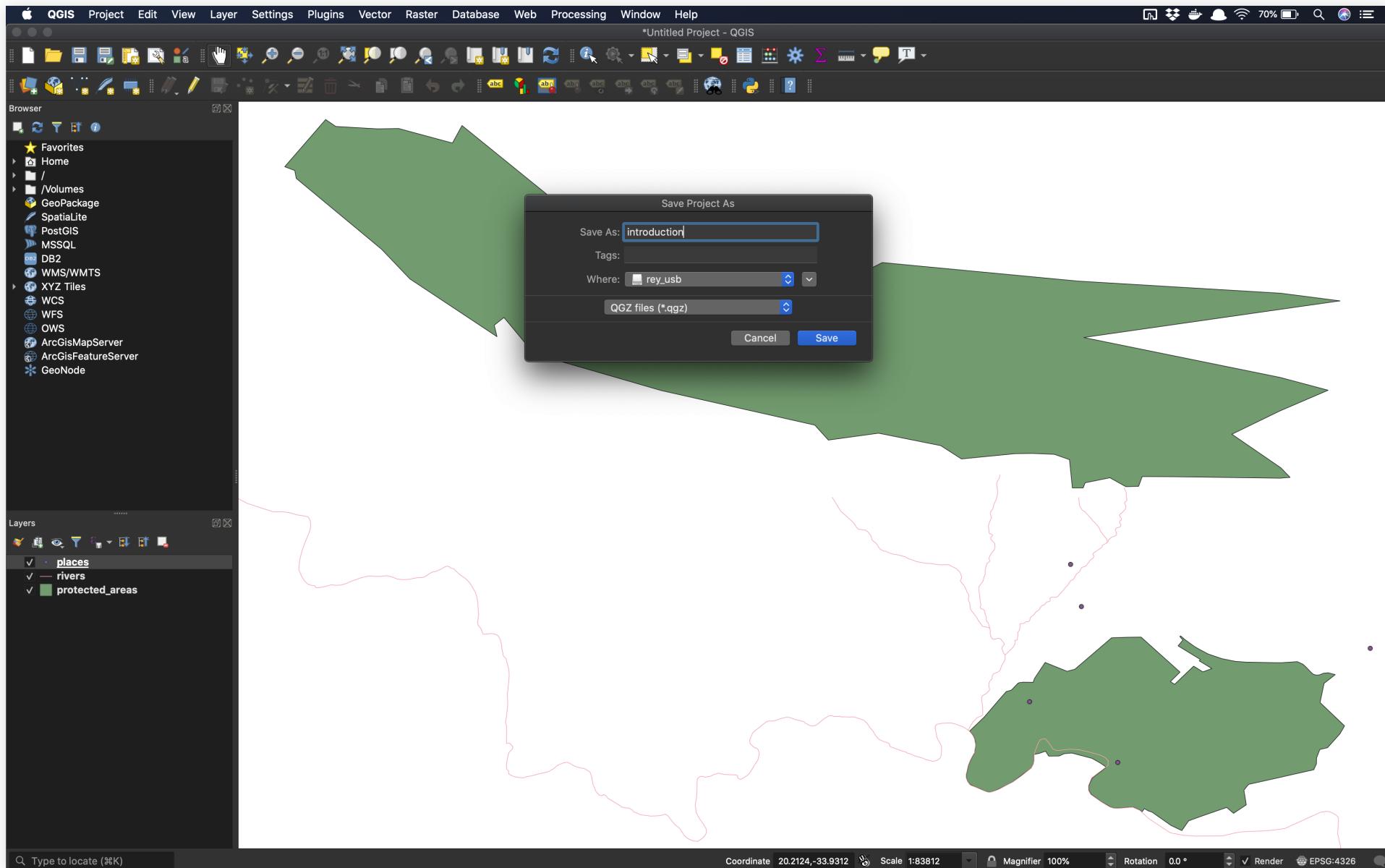
- A **meta-file** that defines the files associated with an analysis
- A **project file** records locations of files related to a **project**
- Extension: **gqz**



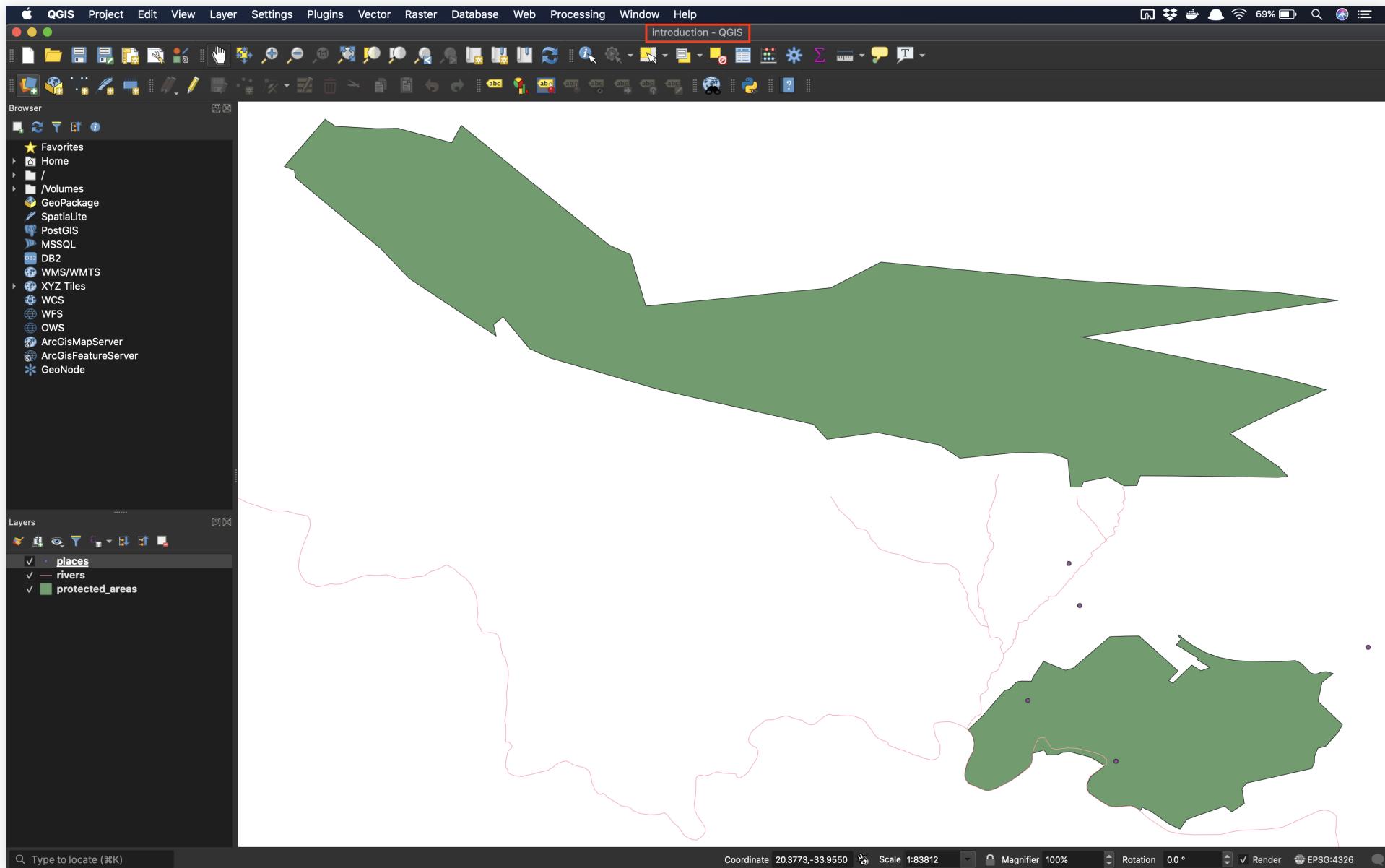
# Saving a project



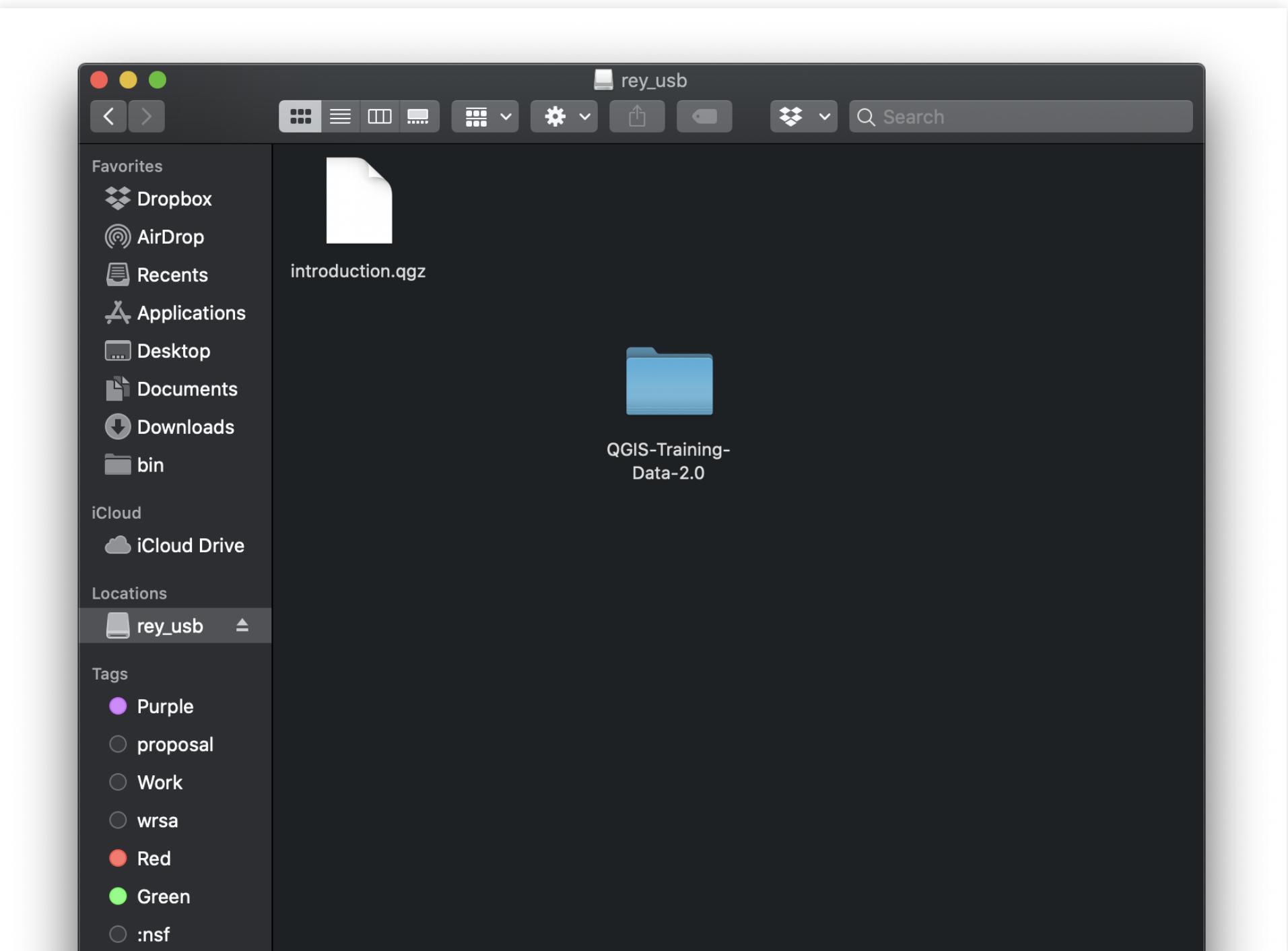
# Project Save Dialog



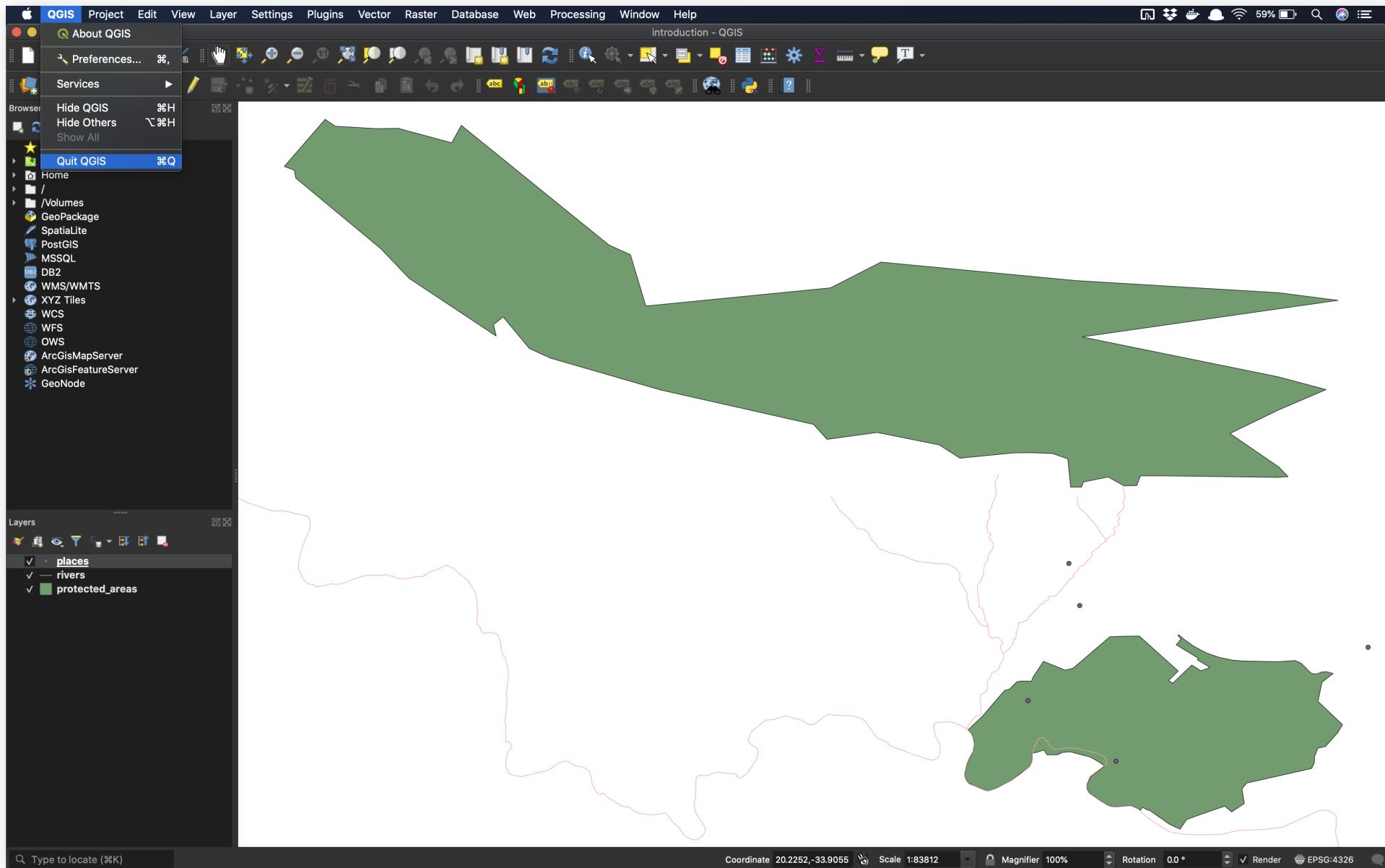
# Project Saved



# Project File



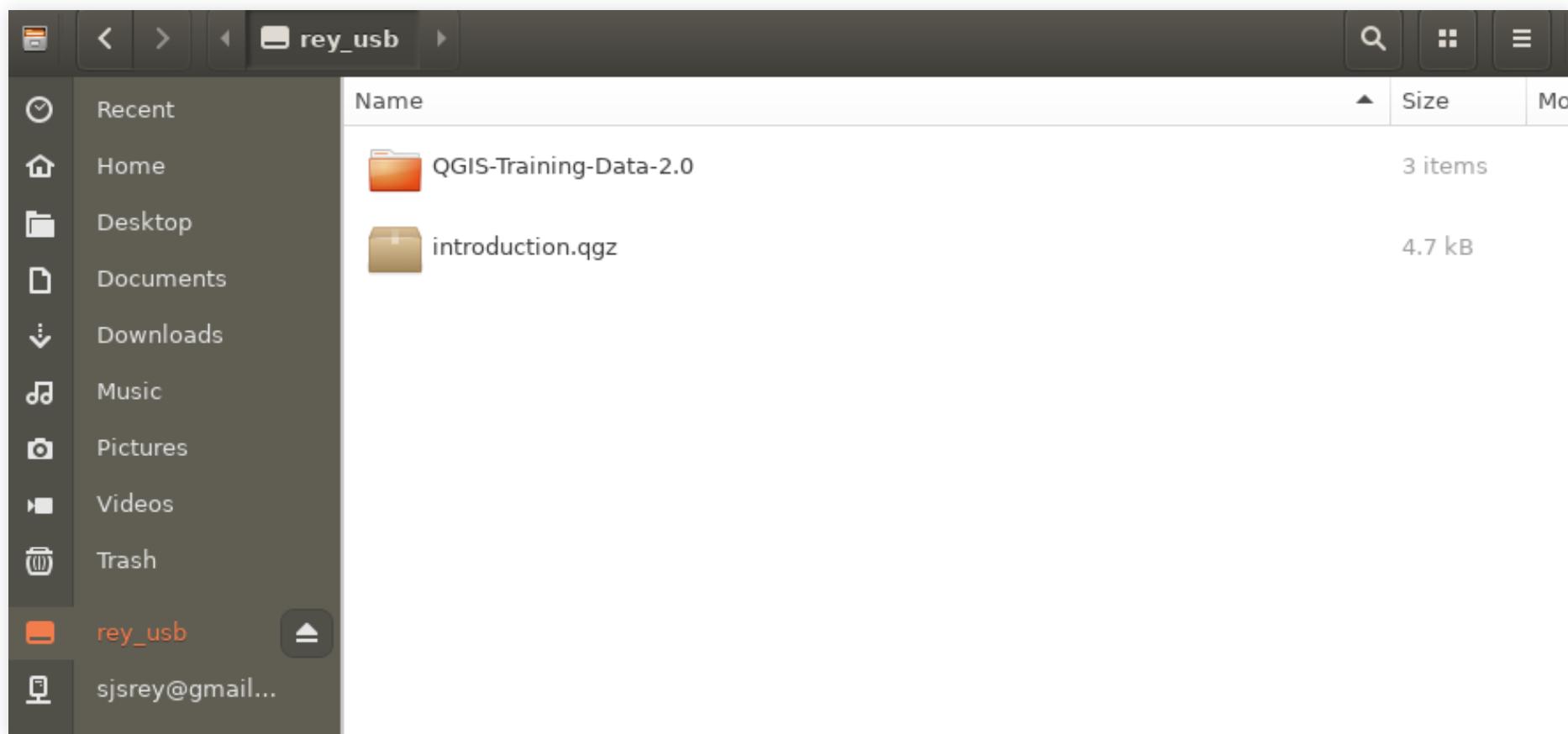
# Quit QGIS



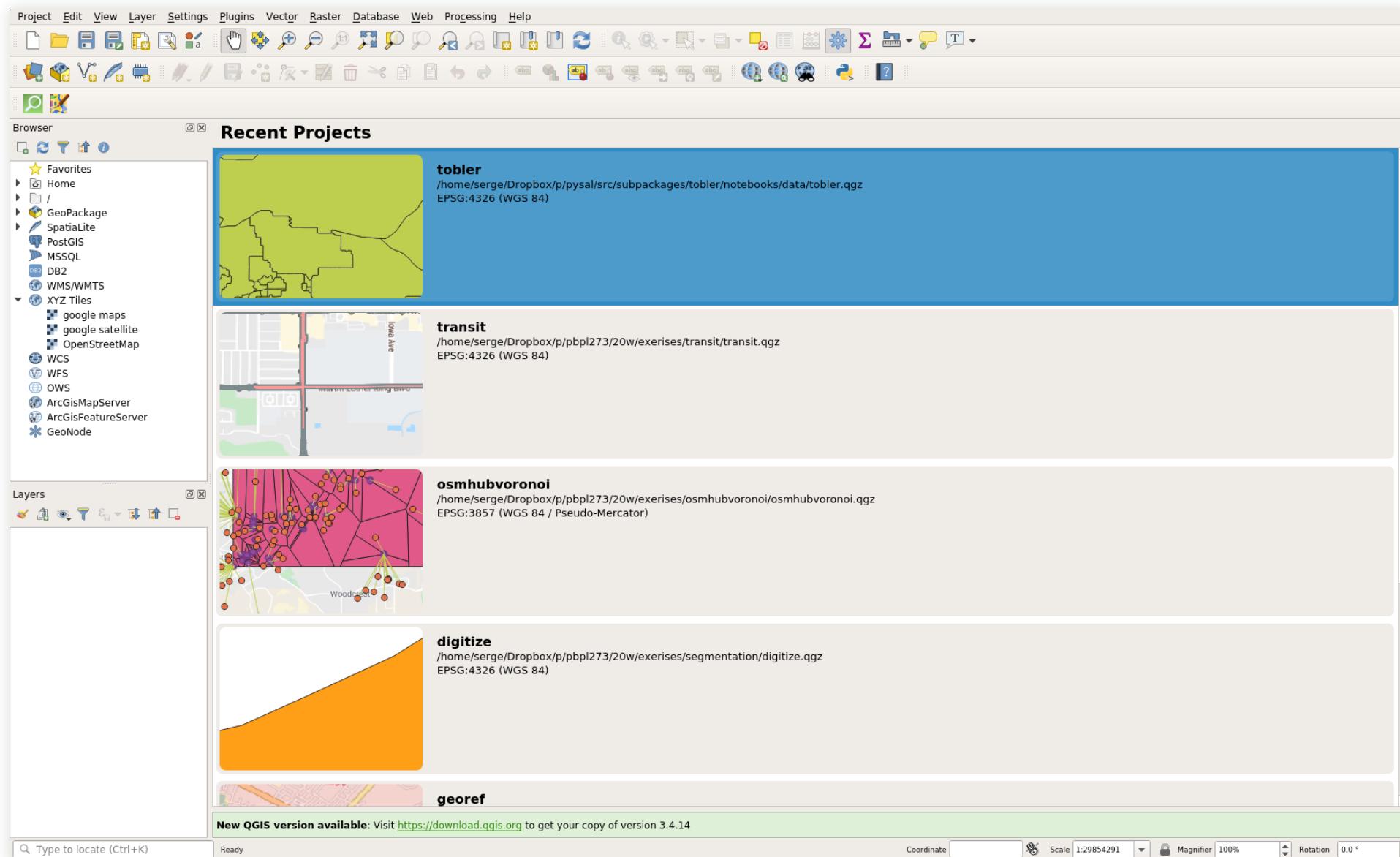
# Opening Project on a different computer

(and operating system)

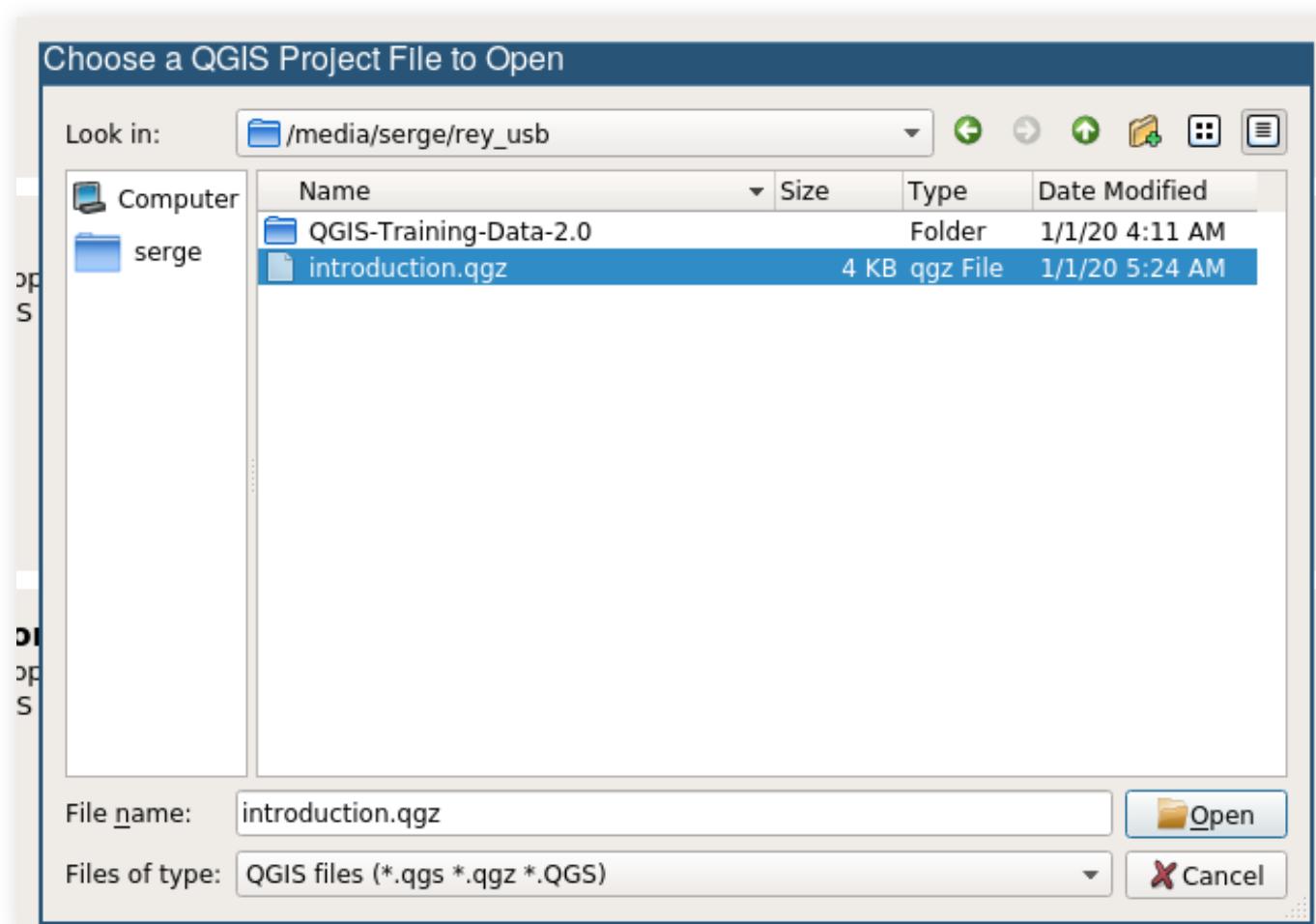
# Linux File Browser



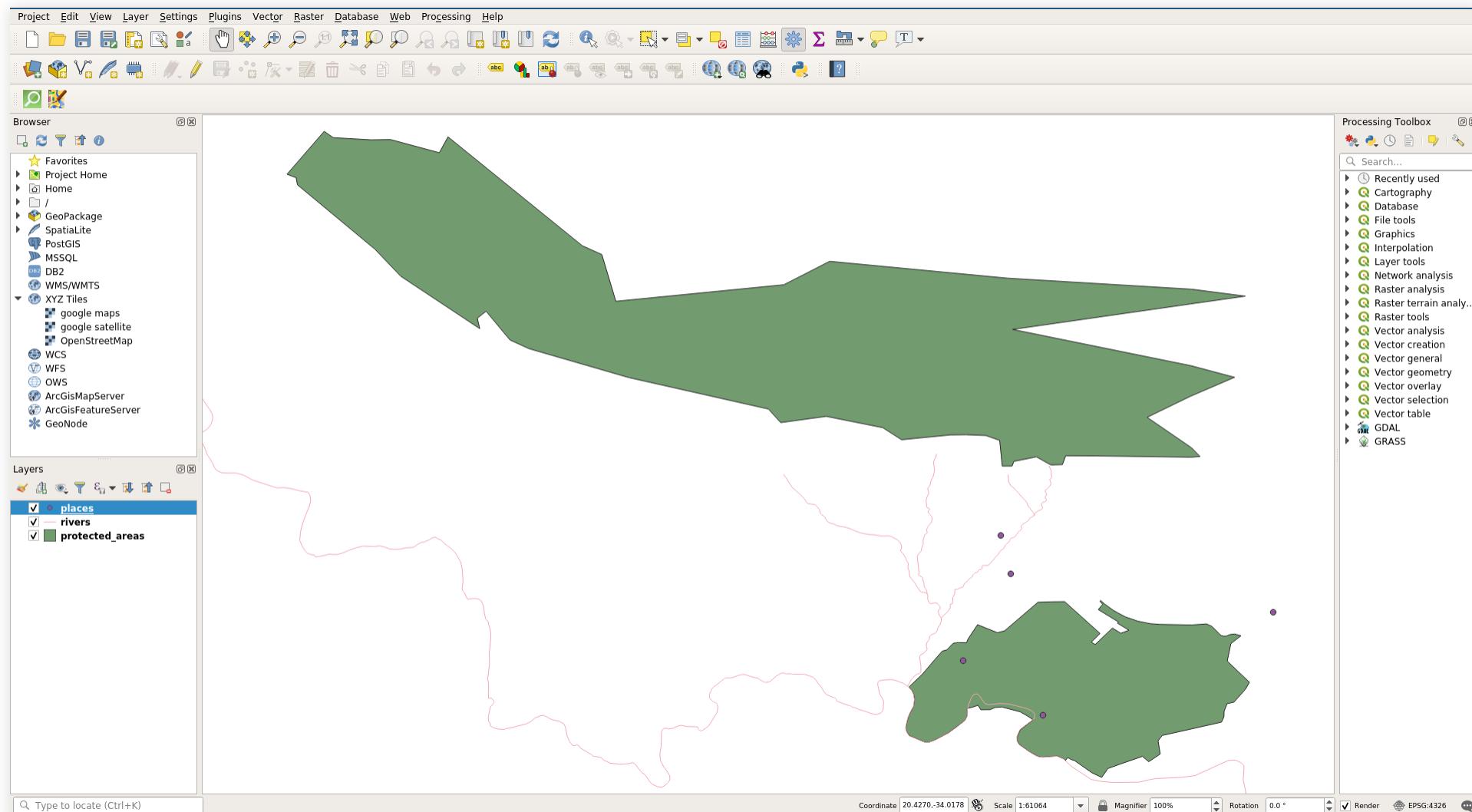
# QGIS on Linux



# Open Project on Linux



# Our Project on Linux



# Next Up

- Vector Data
- Don't forget to take your flash drive



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