

Wrap-Up

Other Troubleshooting

- QGIS is helpful to edit, create new, simplify, trim, reproject, and clean GIS data in order to prep it for Netlogo
- Openoffice is helpful to edit CSV data and also .dbf to reduce the number of columns of data you don't need
- The Netlogo user manual and GIS General Example model are helpful to learn how Netlogo can work with GIS data
- Search google for help by typing Netlogo and then whatever it is you want to do

Review

- You learned about pros/cons of GIS data and Netlogo.
- You searched for, obtained, reviewed GIS data
- You loaded GIS data into Netlogo and displayed it
- You applied GIS attributes to Netlogo patches and turtles
- You loaded CSV data and used it to make more turtles
- You overcame a few challenges that popped up
- Now let's learn how to share your model

Objectives met

- Become familiar with **Netlogo**
- Understand **pros/cons/challenges** of using data in models
- Become familiar with the **modeling process**
- Learn about some approaches to **clean/process data**
- **Create a spatial-ABM** with Netlogo

Things to consider when thinking about using GIS data in a Model

Tip 1: Models can be effective and efficient without incorporating GIS

Tip 2: If you use GIS data, you raise the expectation that your model represents realistic behavior. This means your audience may have less tolerance for inconsistencies with a GIS based model than if they were viewing an abstract model.

Tip 3: If you use GIS data, try to also visually represent the layers in a meaningful, and pretty, way.

Tip 4: If you create a model with GIS data, you have to send the model and the folder of GIS data to the end user as a zip package. Or you can export Netlogo world and send this as the base data to import into the model.