Project Title: Understanding and Applying the 'landscapemetrics' Package

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Members Duties:

- Build Slides: Simon Glarner, Sophia Ferru
- Research Package: Simon Glarner, Kate Gibson
- Make Package Applications: Kate Gibson

Data Description:

We are going to be assessing and discussing the 'landscapemetrics' package in R. This is a package largely to calculate landscape metrics for categorical landscape datasets. The package is used as a substitute for FragStats, another common, albeit less efficient, way of evaluating landscapes. It allows for the visualization of desired characteristics within a given patch of land, can generate metrics from provided data, and also has some building blocks to allow users to develop new metrics of their own.

Goal of Project:

We hope to give an overview of the package, as well as how it is applied. We have all used it in other classes so we can provide specific examples of use, as well as provide visuals that accompany many of the commands. We also hope to build an understanding among our classmates that this is not just used in science, and is applicable across many fields as people attempt to quantify any given metric about any given plot of land.