Place-Based Belonging

Shiny dashboard – orientation

**Overview**

* Shiny dashboard is a way the audience can engage with content in an app-based format. It is similar to a Tableau, but since we have so much of our work and analysis done in R at this point, this seems like a good tool for engagement and dissemination.
* Goal: convert place-based belonging to Shiny format.

**Orientation**

* Familiarize yourself with <https://github.com/abenedetti/bioNPS/>
  + This is the structure we are following for the PBB dashboard.
* There are a few ways to approach Shiny apps, but in this approach, we have two files: **ui.R** and **server.R**. One is front-facing, the other is back-end. The **ui** engages with the user, while the **server** actually does the calculations, applies the functions, selects the right map for the display, etc.

**What I need help with:**

* Writing generalized functions for each of the elements in the PBB document. Currently, there is a function written, and the function takes and acts upon a subset of data each time it is called, and it is called for each subset of data. With Shiny, the user can self-select the subset they are interested in (i.e., undergrads 2022) and the viz should display based on that selection.
* Functions are needed for the following:
  + Campus inclusiveness
  + EMU inclusiveness
  + Wordnets
  + Wordclouds
  + Emotions
* Once these functions are written, it can be challenging to figure out exactly how they fit in the framework of a Shiny dashboard. You might try to deploy each piece first on a Shiny app for testing and then convert to dashboard format.