**Final Project Notes**

**Data Cleaning Processes:**

1. Hannah connected the datasets, so we have a count of how many times crops appeared in recipes.
2. String cleaning & account for plant families
3. Developed an adjacency matrix based on which plants are compatible with each other using Python.

**Plant Families**

[Spring Brassicas:](https://www.highmowingseeds.com/blog/from-the-garden-spring-brassicas/) kale, cabbage,

[Brassica:](https://www.cancer.gov/publications/dictionaries/cancer-terms/def/brassica-vegetable) broccoli, Brussel sprouts, cabbage, cauliflower, collard greens, kale, turnips

[Allium:](https://en.wikipedia.org/wiki/Allium) cultivated onion, garlic, scallion, shallot, leek, and chives

Nasturtium: marigold, cress

**Our audience:** those that/want to cook and garden in the home.

We want to create an informative tool that people can use to determine crops to plant in their garden that is best for them.

When planting things in your garden that you’ll eat – you reduce your greenhouse gas and food waste in addition to making yourself less susceptible to food price shocks and rising food prices (find sources abt these but I’ll bet these r all true).

**Visualizations we’re creating:**

1. Interactive histogram that shows crops with the most recipes. Can learn the exact number by hovering.
   1. Goal: understand which crops are most versatile in cooking
2. Network graph in which you can see which crops can be planted next to each other/compatible.
   1. Goal: understand which crops can be grown together
3. Visualizations about each crops that can be selected to see the temperature, crop spacing, and harvest time compared to the rest of the crops.
   1. Goal: understand the unqiue needs of each crop