Final Project Description   **Due 4/13/2023**

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Our final project will explore common home garden plants in the United States and recipes that contain these plants. The goal of our visualization will to be provide information for people who plant and cook such that they can determine what to plant and/or cook.

Data: Combining Garden & Recipe Data

Garden data contains information about 92 plants, instructions on sowing, space between other plants, harvesting time, other plants it can grow near, other plants it can not grow near, advice on culinary purposes of the plant, advice on ways to preserve the plant for eating, and the link of where the information was sourced.

Recipe data contains information about common recipes, their ingredients, recipe instructions, and images. They were sourced from the cooking website Epicurious.

Plan: Visualization Ideas

- Bar chart showing distribution of most popular plants in the recipe database (based on number of recipes containing the plants) [Figure 5]
- Lollipop-style chart to show seed spacing ranges
- Harvest time after growth comparison horizontal bar chart (user chooses plants to compare)
- Plot area that is populated with seeds and scaled spacing [Figure 2]
- Grocery list or plate that is populated with ingredients for recipe of interest [Figure 3, 4]
- Network graph showing recommended plant pairings [Figure 6 or Figure 7]

Interactivity Ideas

- Mouseover to get more information about individual plants-
- Click to compare desired plants- Click to find recipes with desired plants.
- Form-style input about the user's garden [Figure 1]
- How big is their plot? What are they interested in planting? [Figure 1]
- Will return drawings and information about planting those seeds (e.g., how many cucumber plants they could get in a 48"x48" plot)

Sketches: We have a lot of sketches with numerous goals, designs and interactivity.
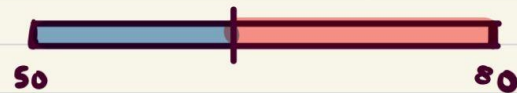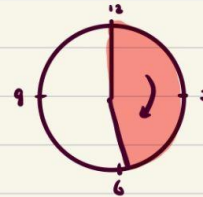
Form input style

How big is your garden (ft)?

3x3   5x3   1x5

Select Temperature (F°)

50   80

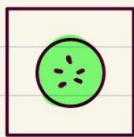Select Time frame (weeks)

12   9   3   6

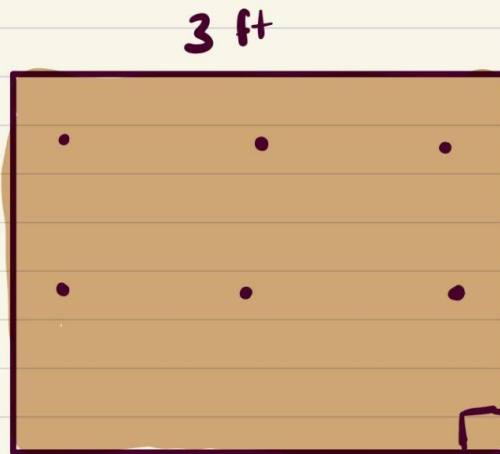What do you like to cook?

Saluds   Sushi   Cake

Results:

(Select a crop to learn more)

Cucumber
Ginger
lettuce
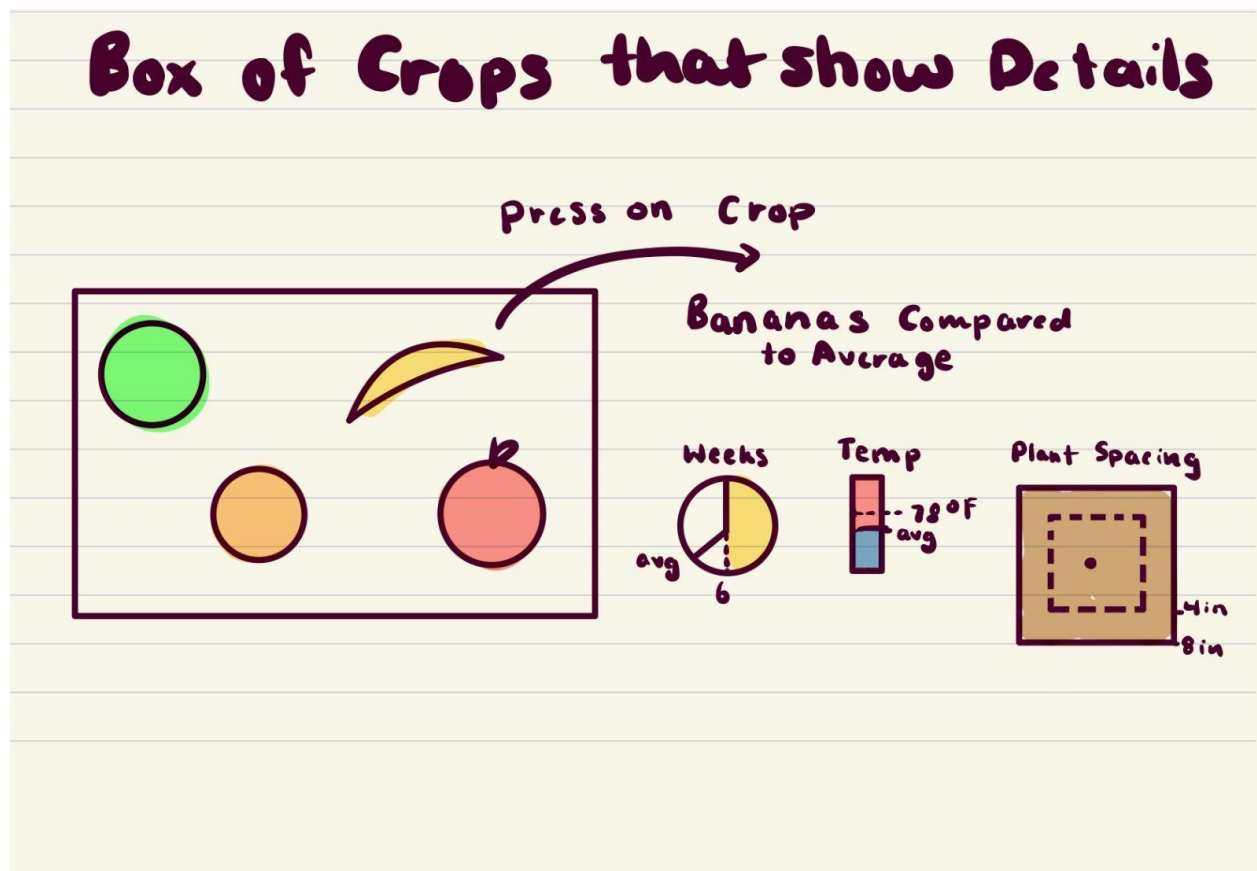
3 ft

Cucumber

5 ft

Weeks
8

Temp
78°F

= 1 in

Figure 1

Plot Area Populated w/ seeds

Seed Spacing

communicates can't
← be planted next to each other

these 2 plants can be planted near each other

Figure 2

Box of Crops that show Details

Press on Crop

Bananas Compared to Average

Weeks

avg

6

Temp

78°F avg

Plant Spacing

4in
8in

Figure 3

Crops Clustered by Recipes

Salads   Pastas

click on
crop to get
More info abt it

Weeks   Temp

avg   78°F
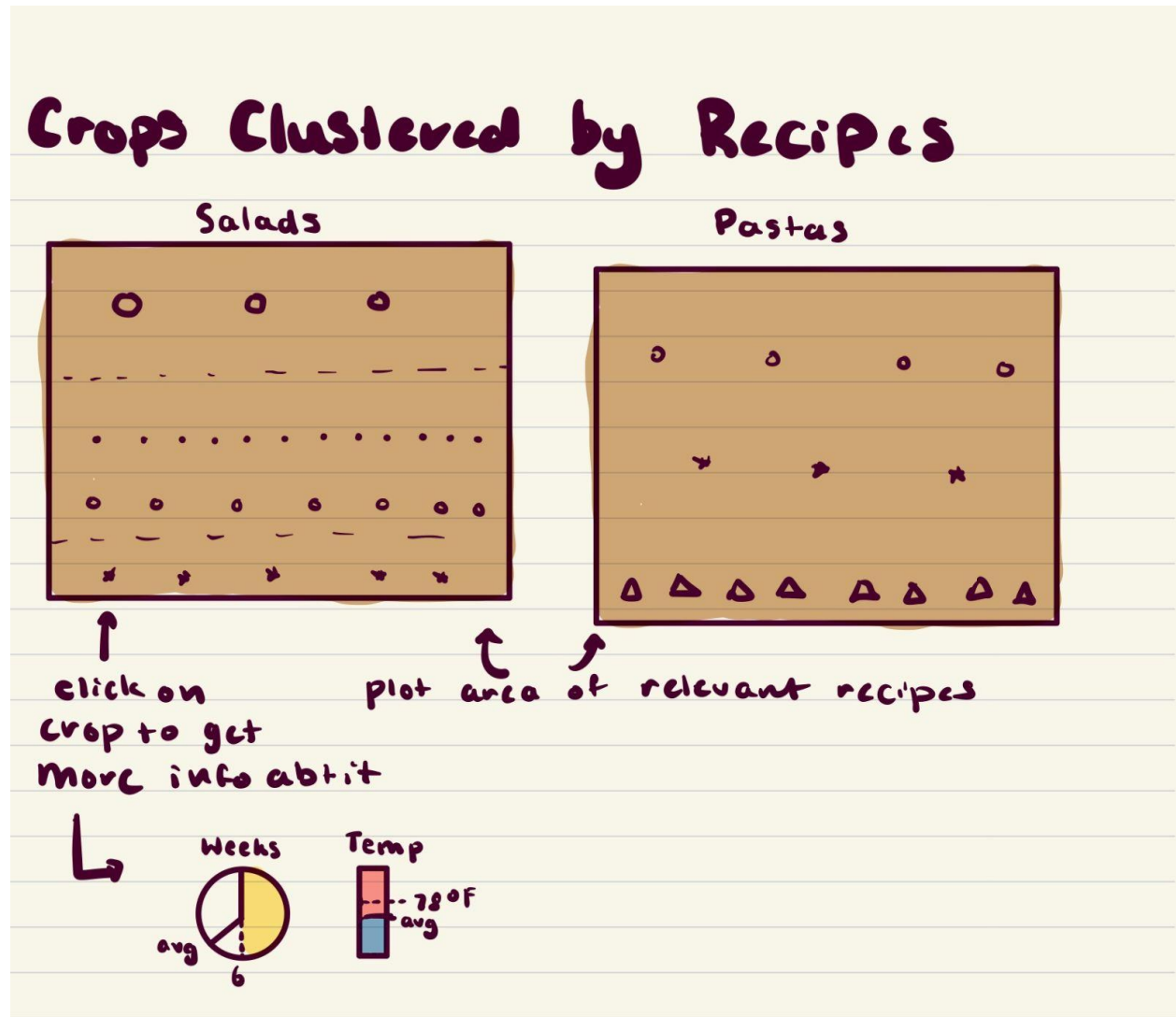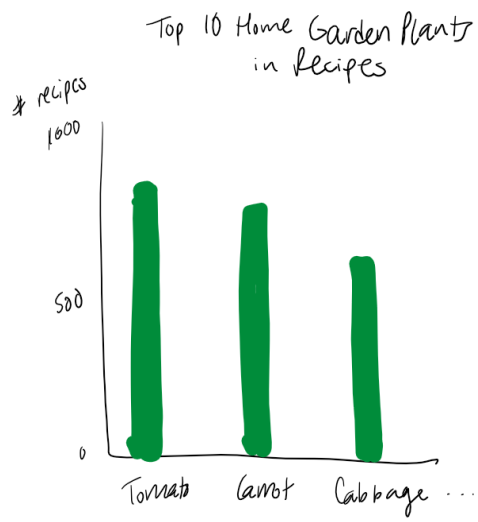   6   avg

Figure 4

Top 10 Home Garden Plants in Recipes

Figure 5

Figure 6

Figure 7