

COOKIE MONSTER

What is the main idea of your project? What topics will you explore and what will you generate? What is your minimum viable product? What is a stretch goal?

Cookie monster will utilize opencv to track the users face and whether or not their mouth is open or closed. This will be the bulk of the work as we will be training a haar classifier to differentiate open and closed mouths between facial differences. The ultimate result will be a game that allows the user to consume cookies that appear on their screen by opening an closing their mouths in front of the camera.

What are your learning goals for this project (for each member)?

Anya: learn how to use opencv and classify/track objects.

Rocky: Learn how to team coding projects and design larger programs.

What libraries are you planning to use? (if you don't know enough yet, please outline how you will decide this question during the beginning phase of the project).

We will definitely be using OpenCV. Past that, we currently are unsure if we are using anything else.

What do you plan to accomplish by the mid-project check-in? (See below for some generic goals; edit to suit your particular project)

- Create a classifier for an open/closed mouth
- Maybe have objects appear randomly on display

What do you view as the biggest risks to you being successful on this project?

One of the biggest risks is that we plan on modifying and training a haar classifier. Our entire project is dependant on this classifier working, so we need to make sure it works well.

We also will need to not only to be able to classify an open/closed mouth, but also be able to track where the mouth is.