## **Day 3**

Recap

* HW Review - Go through HW solutions
* Take any Questions
* Day 2 Recap

Convolutions Continued

* Start by showing the small clip of the 3Blue1Brown vid with the convolution visual
* Examples
* Messing around with convolutions - have everyone go to the linked site
  + It lets you see how different kernels effect images and see the exact computations being done
* Issue with Convolutions - edges not convolved
  + Ask students: Why is this an issue? - the edges might be important, and then you just lose that. It causes the image to become smaller than it originally was, which can mess up resolutions, or other operations that require a specific size
* Recap
  + Jump to notebook and do the convolutions section

Noise

* Mostly same as slides for this section and the next
* Gaussian Distribution - watch the 5 minute video that is linked
* Jump to notebook after noise section

Denoising

* Jump to notebook after lecture

Break

Final Project

The rest of the day will be spent working on the final project. All the students will be given a google doc that has the steps laid out for them. Here is that [doc](https://docs.google.com/document/d/1lq3acIHfU6y4PMknvdqnhNUygbOYfod0H1wtL21Ge6Q/edit?tab=t.0). Similar to the mini-projects, the goal is for the students to do as much as they can by themselves. If they have questions, make sure to guide them to the answer rather than give them the answer.