

## Colab Assignment

**Collaboration:** You will do this assignments in groups of 2–3. These do not need to be the same as your final project groups.

**The task:** You choose one of the papers from a list (to be distributed via email) and carefully read the paper. You will create a Colab<sup>1</sup> notebook illustrating some of the key ideas from the paper.

**Deadline:** March 30.

**Submission:** Email the URL to the course instructor.

**Sign-up:** A Google Spreadsheet will be sent out by email so that your group can sign up for a paper. First come, first served.

**Details:** You should create a Colab notebook which illustrates one or more of the key ideas from the paper. This will require implementing relevant aspects of the method (but you are not required to write code that reproduces the entire paper).

Your implementation should be in JAX. You are welcome to use publicly available libraries (with attribution, of course!), as long as it doesn't trivialize the assignment.

Since Colab isn't meant for heavy computation, you will probably want to focus on toy examples or small datasets like MNIST.

Include at least one visualization that goes beyond what's presented in the paper (or in lecture).

The notebook will be distributed to other students in the class so that they can experiment with it. If you give permission, it will also be posted publicly on the course web page. (Whether you give permission won't affect your grade for the assignment.)

You should take advantage of the Colab format. I.e., the user should be able to learn something from interacting with it that they wouldn't get from a static PDF.

Other students should be able to read your code and learn from it, so please make sure the style is more or less readable.

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<sup>1</sup><https://colab.research.google.com/>