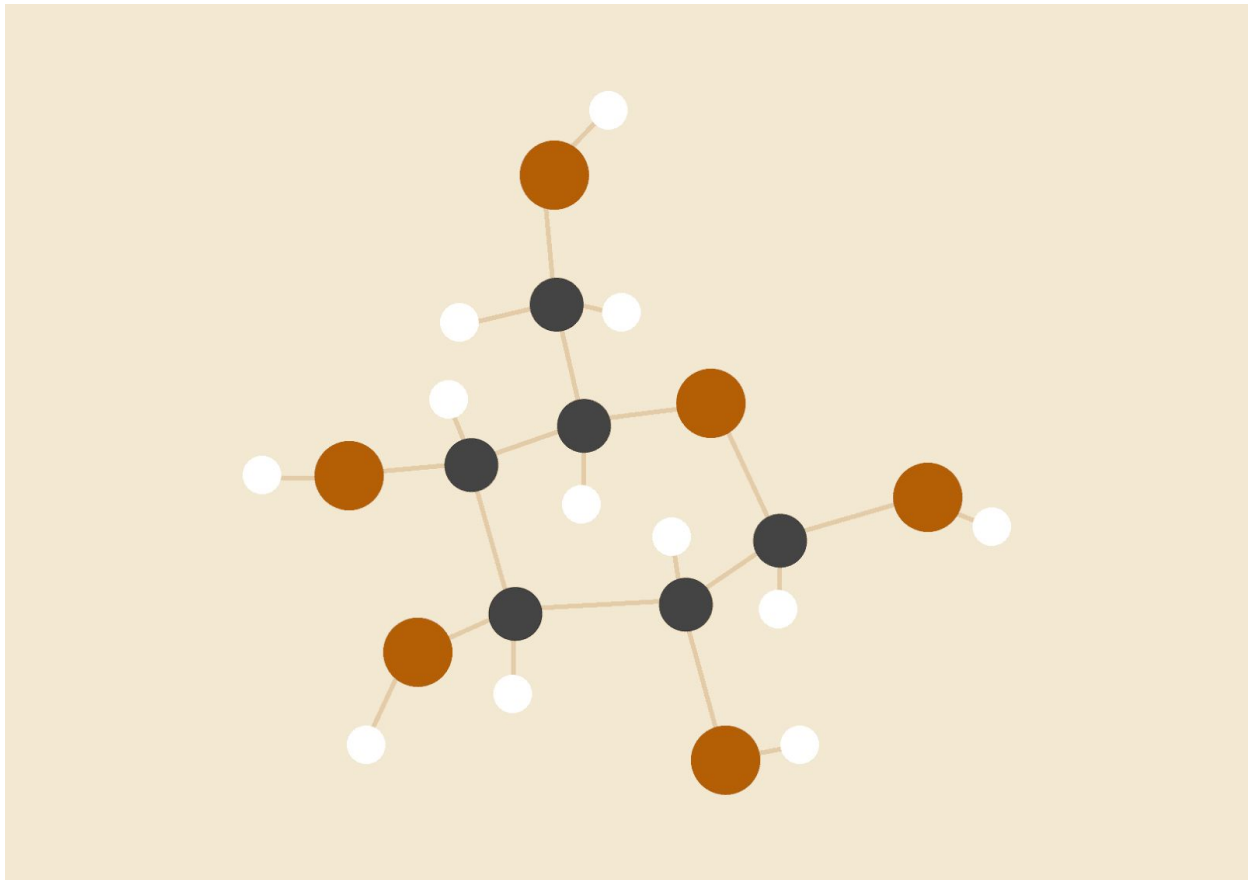


# Getting Started with Google Colab

*Simple and effective tutorials to get started with Google Colab*



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## What this is?

This is a companion handout document for the Webinar. Link to Webinar - <https://www.youtube.com/watch?v=Qcxp2NT0z6c>

## Important Note

This is a hands on session, so it's better if you also start coding along with me. Feel free to ask me questions any time. During the session, if you have any doubts use the live chat or you can also ping me in slack.

## Agenda

- What really is Google Colab, why do we need it?
- Hello World
- Installing PyTorch
- Let's do simple Digit Classification on Colab
- Helper module
- Enable GPU Support
- Installing Pillow
- Understanding Colab File Structure
- Using Google Drive within Colab
- How to download datasets

## Notebooks

1. Hello World -

<https://colab.research.google.com/drive/1REO7HwCY6bEQajLexUAnhmSMLWQKphe3>

2. Installing PyTorch -

<https://colab.research.google.com/drive/1Cb9mCZQsxUvzrbESyaUNjZqUedj1rxOW>

3. Digit Classification -

[https://github.com/udacity/deep-learning-v2-pytorch/blob/master/intro-to-pytorch/Part%203%20-%20Training%20Neural%20Networks%20\(Solution\).ipynb](https://github.com/udacity/deep-learning-v2-pytorch/blob/master/intro-to-pytorch/Part%203%20-%20Training%20Neural%20Networks%20(Solution).ipynb)

4. Helper Module -

<https://colab.research.google.com/drive/1Tca8CCNGh3km8ujFkocxW6z-wc64GjNa>

5. Enable GPU Support -

[https://colab.research.google.com/drive/1ONl6ldJNbQO4GWwq5\\_g9iNP0GzQrIZvM](https://colab.research.google.com/drive/1ONl6ldJNbQO4GWwq5_g9iNP0GzQrIZvM)

6. Installing Pillow -

[https://colab.research.google.com/drive/1mVIsbvZ8\\_ilLgFQmmQ9eYMuM-DXGsZoN](https://colab.research.google.com/drive/1mVIsbvZ8_ilLgFQmmQ9eYMuM-DXGsZoN)

7. Understanding Colab File Structure -

<https://colab.research.google.com/drive/1fU7HeDNOMa61NnCnyPXaiS6VtbnCgsIo>

8. Using Google Drive within Colab -

<https://colab.research.google.com/drive/1Eh0CgryaZnqWV8Jv4YzZMjXJXiDivzKY>

9. How to download datasets -

[https://colab.research.google.com/drive/1sp9\\_2\\_hit8znmpJhxxG-GXY0XeB2jz7O](https://colab.research.google.com/drive/1sp9_2_hit8znmpJhxxG-GXY0XeB2jz7O)

## What next?

1. Run all the notebooks which we covered here, again. All the notebooks are given in description
2. Get all the custom notebooks for the course from here - [https://medium.com/@ml\\_kid/custom-google-colab-notebooks-for-udacitys-deep-learning-with-pytorch-c4c6fbb04b6](https://medium.com/@ml_kid/custom-google-colab-notebooks-for-udacitys-deep-learning-with-pytorch-c4c6fbb04b6)
3. Get the custom notebook for final lab project from here - [https://medium.com/@ml\\_kid/handy-google-colab-notebook-for-image-classification-project-the-final-lab-project-b142dadeb439](https://medium.com/@ml_kid/handy-google-colab-notebook-for-image-classification-project-the-final-lab-project-b142dadeb439)
4. Ping me for brainstorming and exchanging ideas :D

**Thank you!**