Computer Vision

Introduction to Jupyter Notebooks and Colab for Exercise 3

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Environment Setup

You have two choices to complete our exercises:

1. Setup jupyter notebook locally on your machine
2. Use google colab in your browser

1. Local Environment Setup

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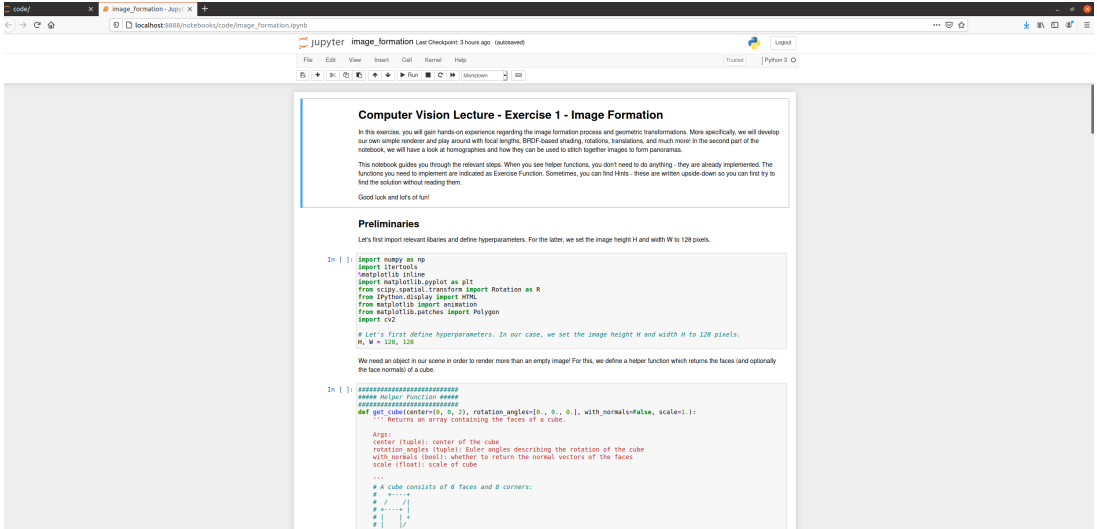
- Follow the instructions for your OS to install the Python package manager `conda`:
  `https://docs.conda.io/projects/conda/en/latest/user-guide/install/`
- Download the archive for exercise 1 and open a terminal in the `code` directory
- Create the new environment `lecturecv` with required packages (numpy, etc.):
  `conda env create -f environment.yml`
- Before launching your notebook you need to activate the environment:
  `conda activate lecturecv-ex02` (same as for the last exercise)
- Run this command from the directory where the jupyter notebooks are located:
  `jupyter-notebook`

1. Local Environment Setup

You can then navigate to the respective notebook and edit it in the browser



2. Online Environment Setup: Google Colab

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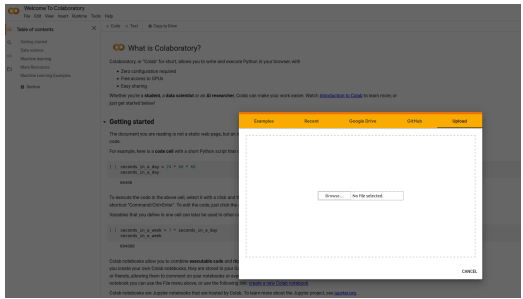
Alternatively, you can use Google Colab online

- Create a free Google account at: `https://google.com`
- Navigate to `https://colab.research.google.com/` in your browser
- Click on File → Upload notebook and upload the respective notebook



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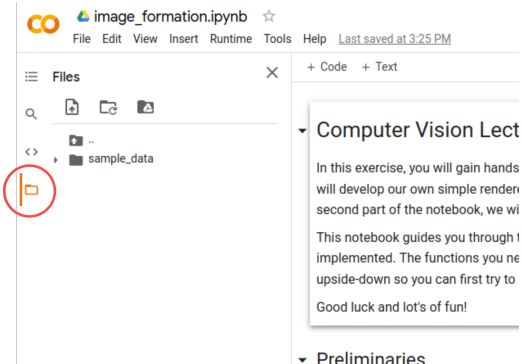
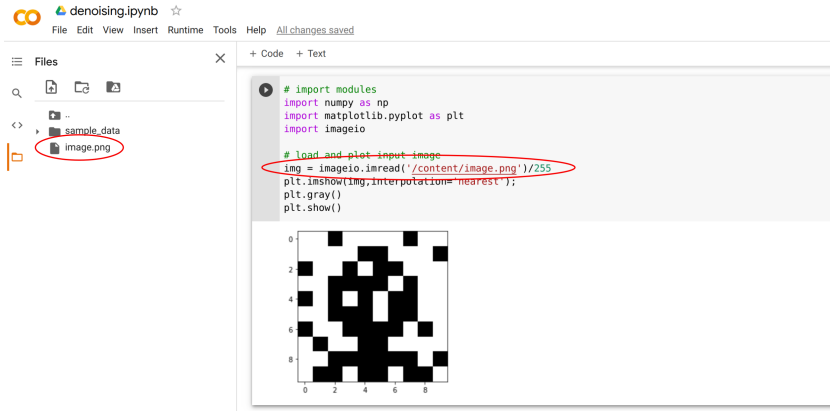
- You can also upload additional files by clicking on the folder symbol on the left:



2. Google Colab: Upload denoising image

`denoising.ipynb`: Upload the image for denoising

- Upload the image `gfx/image.png` to e.g. `/content/`
- In the code, read the image from `/content/image.png`



Questions?