

PyTorch: Fundamentals

Module 1

Getting Started with PyTorch

Conversation between Laurence Moroney and Andrew Ng
 Video • 3 min

 Why PyTorch?
 Video • 4 min

 The Building Blocks of Neural Networks
 Video • 5 min

 The ML Pipeline
 Video • 5 min

 Quiz 1
 Practice Assignment • Grade: 100%

 Building a Simple Neural Network
 Video • 5 min

 Building a Simple Neural Network
 Lab • 1h

 Activation Functions
 Video • 6 min

 Modeling Non-Linear Patterns with Activation
 Functions
 Lab • 1h

 Tensors
 Video • 5 min

 Tensor Math and Broadcasting
 Video • 4 min

 Tensors: The Core of PyTorch
 Lab • 1h

 Join the DeepLearning.AI Forum to ask questions, get support, or share amazing ideas!
 Reading • 1 min

 Quiz 2
 Graded Assignment • Grade: 100%

 (Optional) Downloading your Notebook, Downloading your Workspace and Refreshing your Workspace
 Reading • 2 min

 Deeper Regression, Smarter Features
 Programming Assignment • 3h

 Module 1 Resources
 Reading • 10 min

Module 2

The PyTorch Workflow

Module 3

Data Management in PyTorch

Module 4

Core Neural Network Components

(Optional) Downloading your Notebook, Downloading your Workspace and Refreshing your Workspace

This course uses **Coursera Labs** to provide a Jupyter environment and to grade your work. There might be some instances where you need to download your notebooks or you wish to download your entire workspace or refresh your workspace (single or multiple files) to start from scratch. This reading item outlines the steps to do so.

Downloading your Notebook

In case you need to download your notebook for troubleshooting or running in your local environment, you can follow these simple steps:

1. **(Optional, but recommended)** To reduce the file size, clear the notebook's outputs. Go to the top menu and click **Kernel → Restart Kernel and Clear Outputs of All Cells...**
2. Save your notebook's current state by clicking the  (save) icon on the top left.
3. In the **File Browser** panel (accessible from the left-hand menu if not already open), right-click the notebook (or any other) file you wish to download and select **Download**.

Downloading your Workspace

In case you need to download your entire workspace or some files for troubleshooting, or running in your local environment, you can follow these simple steps:

1. **(Optional, but recommended)** To reduce the file size, clear the notebook's outputs. Go to the top menu and click **Kernel → Restart Kernel and Clear Outputs of All Cells...**
2. Save your notebook's current state by clicking the  (save) icon on the top left.
3. On the top right, click **Lab files**, this will open a panel.
4. Now, you can either download the entire workspace by clicking **Download all files** or you can select the files you want to download.

Note: The best way to download the supporting files for the notebook(s) is the "Downloading your Workspace" option.

Refreshing your Workspace

This will come in handy whenever you need to start from scratch, fetch the latest version of the assignment, or run into a **404** or **Cannot open** error.

1. Open the lab from the classroom, and wait for your workspace to appear. If you see a **404** or **Cannot open** error, skip directly to **step 4**.
2. When your workspace opens, from the **File Browser** panel (accessible from the left-hand menu if not already open) right-click on your notebook file and select **Rename**. Enter any filename other than the original. For example, **C1M1_Assignment.ipynb** (original) → **C1M1_Assignment_v2.ipynb**. (Note: The default/original lab name will be different for each lab and assignment notebook.)
3. (Optional) To refresh other files (like datasets or helper files you've modified), right-click them in the **File Browser** and select **Delete**. If you want to save your changes first, use **Rename** or **Download before deleting** them.
4. Click on the **Help (?)** button on the top right of the page.
5. When the panel opens, click the **Get latest version** button.
6. Click the **Update Lab** button. The page will refresh, providing the latest version of the notebook and any other files you deleted/rename.

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