

READ ME

Welcome to the Cornell CodeFest!

This is AnsysLab and within you will find a number of jupyter notebooks for running Python code.

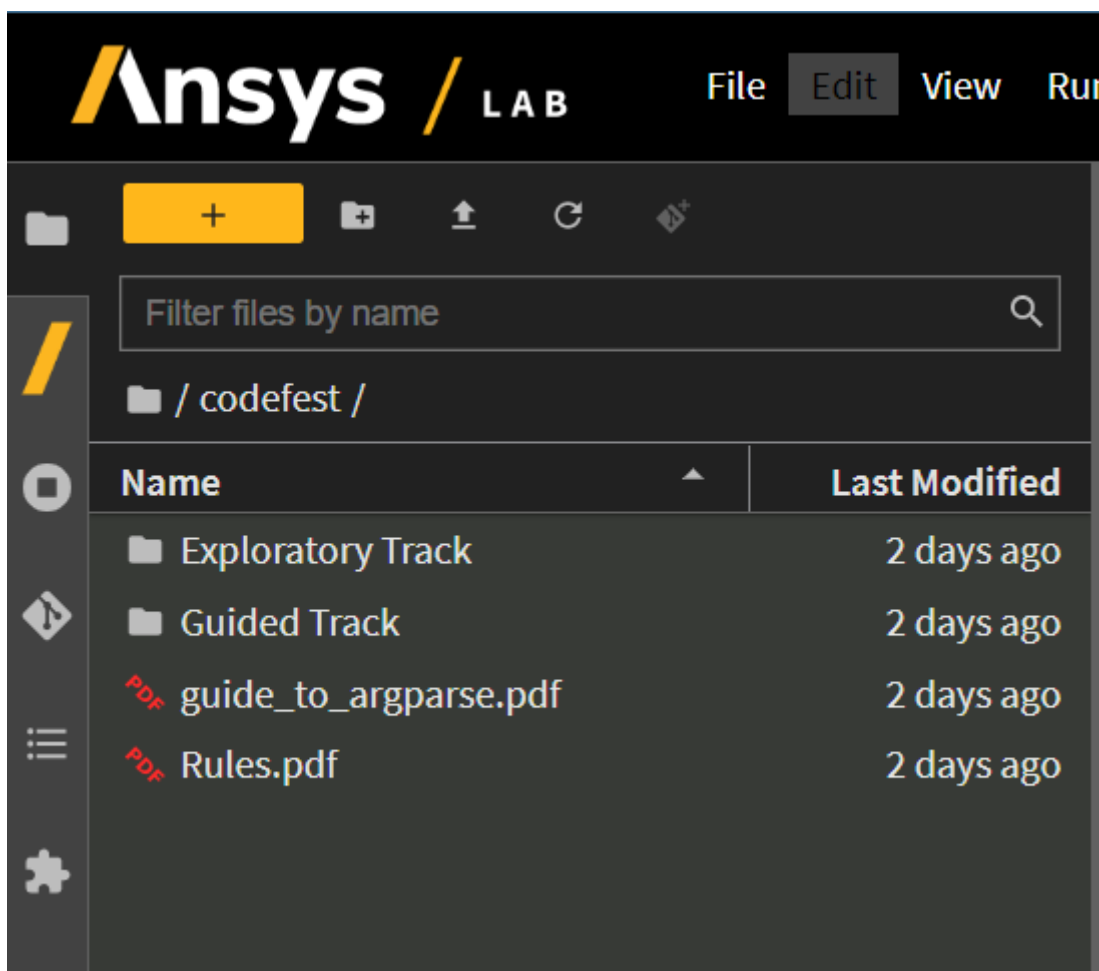
If you are unfamiliar with jupyter notebooks we recommend you check out the explanation in the Ansys Innovation Courses Intro to Python course, which you can find (for free) [here](#). This covers how jupyter notebooks work. Although, it will look a bit different to AnsysLab because AnsysLab is based on jupyterlab, which also uses jupyter notebooks but with a slightly different interface. The documentation for jupyterlab can be found [here](#).

You can also use Ansys products from within these notebooks via the PyAnsys interfaces without having to install Ansys on your own computers. However, should you wish to do so for the challenges you are more than welcome. You can find details about Ansys Student [here](#).

Getting Started

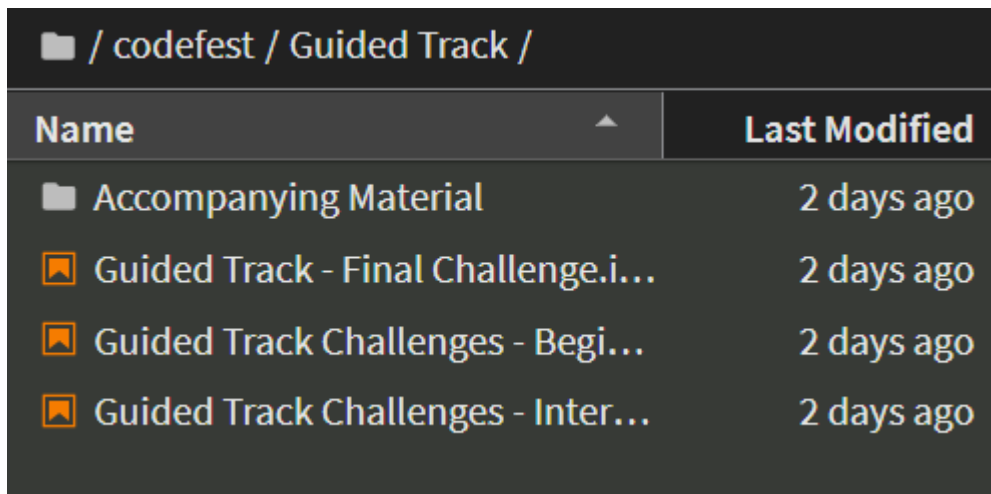
The rules of the CodeFest can be found in the [Rules.pdf](#) file in the same directory as this. There is also a short article on the builtin Python library [argparse](#), which you may also find useful.

In order to open these files (as you will have discovered by opening this file), you need to navigate this side-panel.



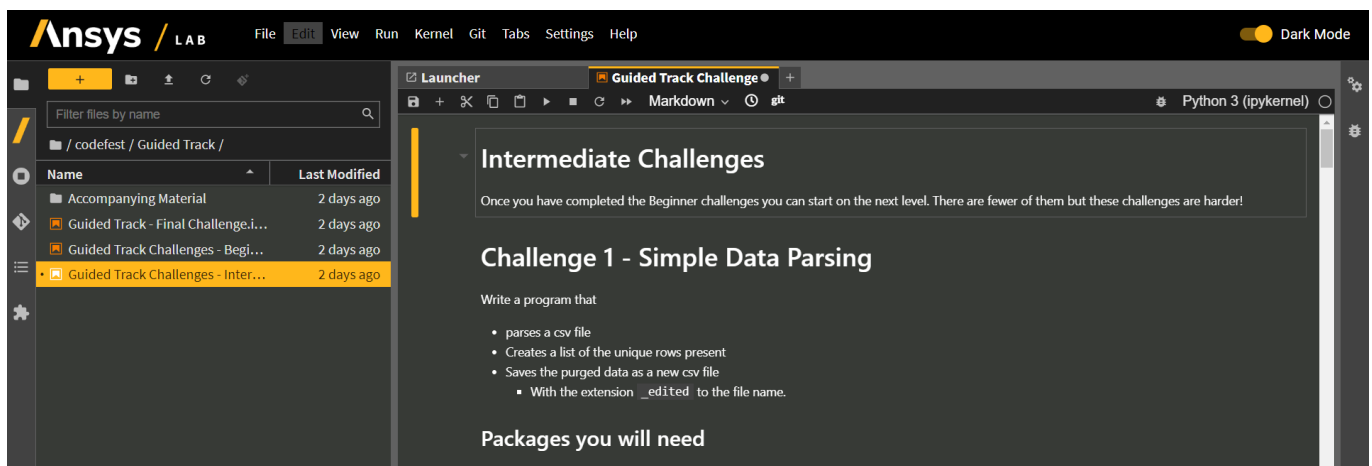
The Exploratory challenges can be found in the **Exploratory Track** directory and the Guided track challenges in the **Guided Track** directory.

Jupyter notebooks appear with an orange square beside them in AnsysLab and an orange bookmark within that.



Name	Last Modified
Accompanying Material	2 days ago
Guided Track - Final Challenge.i...	2 days ago
Guided Track Challenges - Begi...	2 days ago
Guided Track Challenges - Inter...	2 days ago

Double-clicking on one of these will open the notebook in a new tab, *within* AnsysLab.



Ansyes / LAB File Edit View Run Kernel Git Tabs Settings Help Dark Mode

Filter files by name

/ codefest / Guided Track /

Name	Last Modified
Accompanying Material	2 days ago
Guided Track - Final Challenge.i...	2 days ago
Guided Track Challenges - Begi...	2 days ago
Guided Track Challenges - Inter...	2 days ago

Launcher Guided Track Challenge Python 3 (ipykernel)

Markdown git

Intermediate Challenges

Once you have completed the Beginner challenges you can start on the next level. There are fewer of them but these challenges are harder!

Challenge 1 - Simple Data Parsing

Write a program that

- parses a csv file
- Creates a list of the unique rows present
- Saves the purged data as a new csv file
 - With the extension `_edited` to the file name.

Packages you will need

You can then edit the notebook, run cells, add code and **don't forget to save it!**

If you need to get back the original challenges you can save the notebook you're currently working in (or directory) with a new name and prefix. Then, the original material will be copied into your AnsysLab directory when it next syncs with the server. You can even do this with the whole **codefest** directory.

See below, where I've renamed my directory (yours may look different) so that I can keep notes and answers on the guided track, but the **codefest** directory still exists.

