Dash Components

Objectives

After completing the lab you will be able to:

- Work with Dash Callbacks

Estimated time needed: 30 minutes

Dataset Used

Airline Reporting Carrier On-Time Performance dataset from Data Asset eXchange

About Skills Network Cloud IDE

This Skills Network Labs Cloud IDE (Integrated Development Environment) provides a hands-on environment in your web browser for completing course and project related labs. It utilizes Theia, an open-source IDE platform, that can be run on desktop or on the cloud. So far in the course you have been using Jupyter notebooks to run your python code. This IDE provides an alternative for editing and running your Python code. In this lab you will be using this alternative Python runtime to create and launch your Dash applications.

Important Notice about this lab environment

Please be aware that sessions for this lab environment are not persisted. When you launch the Cloud IDE, you are presented with a 'dedicated computer on the cloud' exclusively for you. This is available to you as long as you are actively working on the labs.

Once you close your session or it is timed out due to inactivity, you are logged off, and this 'dedicated computer on the cloud' is deleted along with any files you may have created, dowloaded or installed. The next time you launch this lab, a new environment is created for you.

If you finish only part of the lab and return later, you may have to start from the beginning. So, it is a good idea to plan to your time accordingly and finish your labs in a single session.

Let's start creating dash application

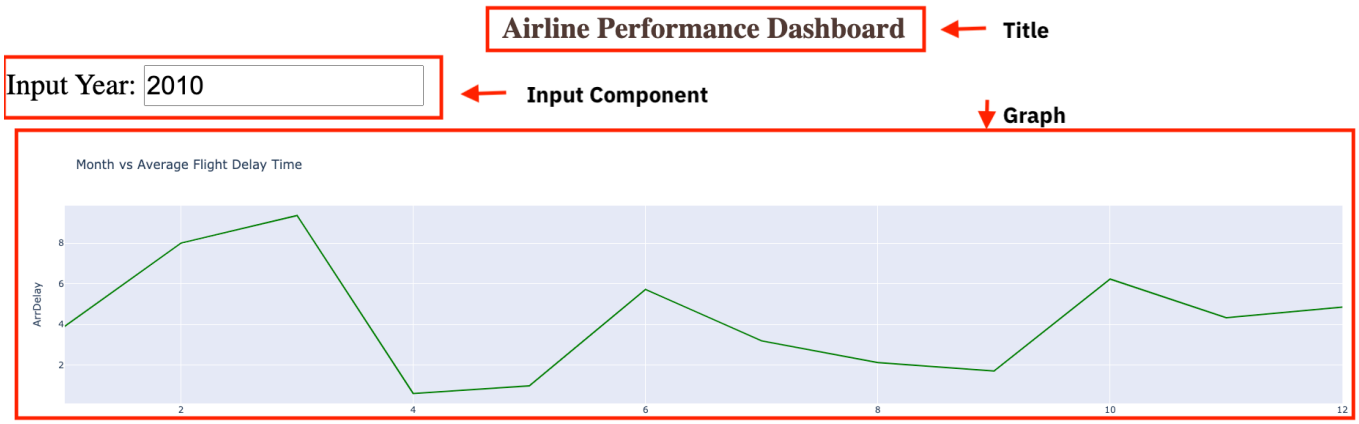
Theme

Extract average monthly arrival delay time and see how it changes over the year. Year range is from 2010 to 2020.

Expected Output

Below is the expected result from the lab. Our dashboard application consists of three components:

- Title of the application
- Component to enter input year
- Chart conveying the average monthly arrival delay

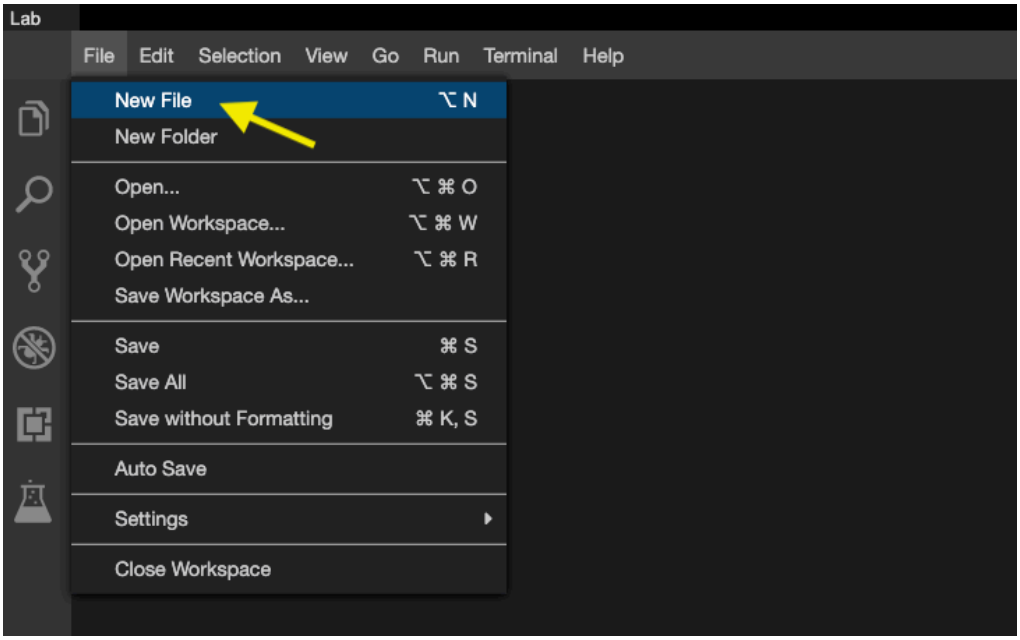


To do:

1. Import required libraries and read the dataset
2. Create an application layout
3. Add title to the dashboard application using HTML H1 component
4. Add an input text box using core input component
5. Add the line chart using core graph component
6. Run the app

Get the tool ready

- Create a new python script, by clicking on the menu bar and selecting **File->New File**, as in the image below.



- Provide the file name as `dash_interactivity.py`