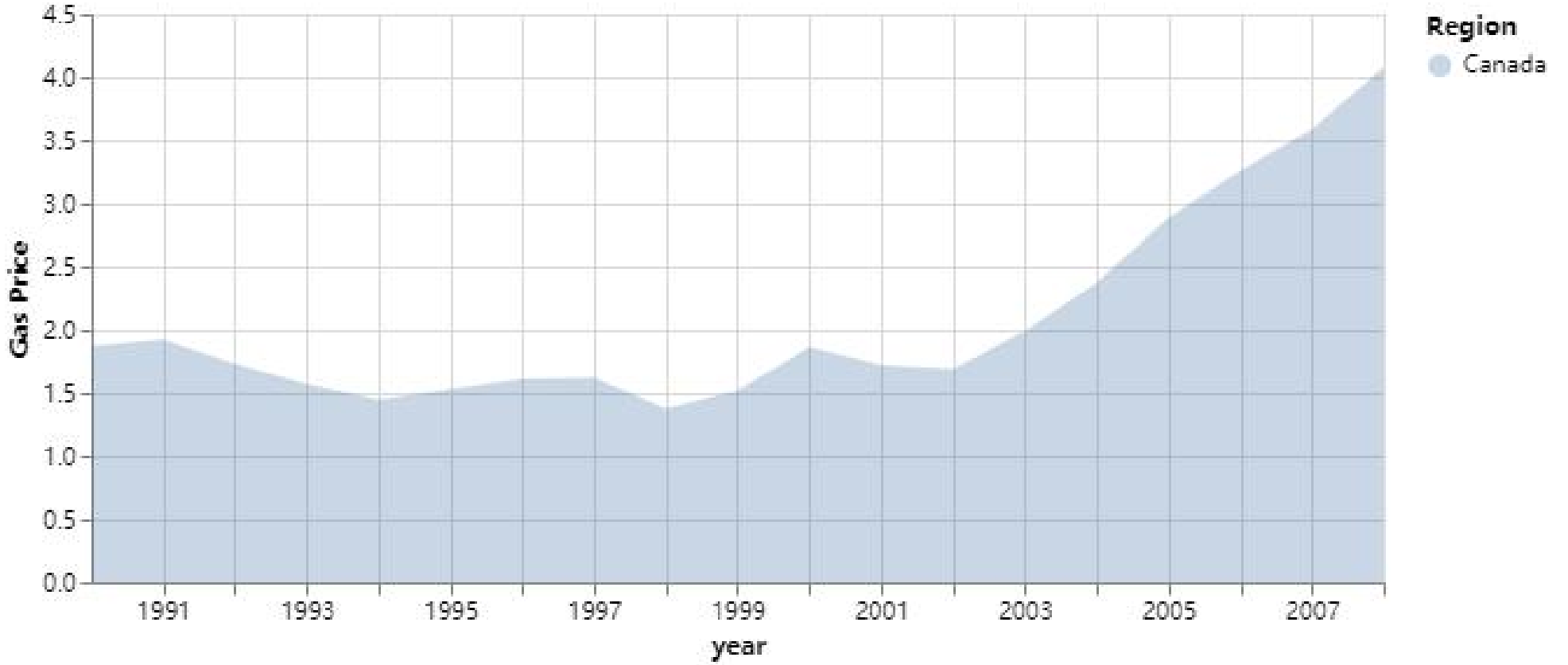
Knowledge Discovery and Data Mining

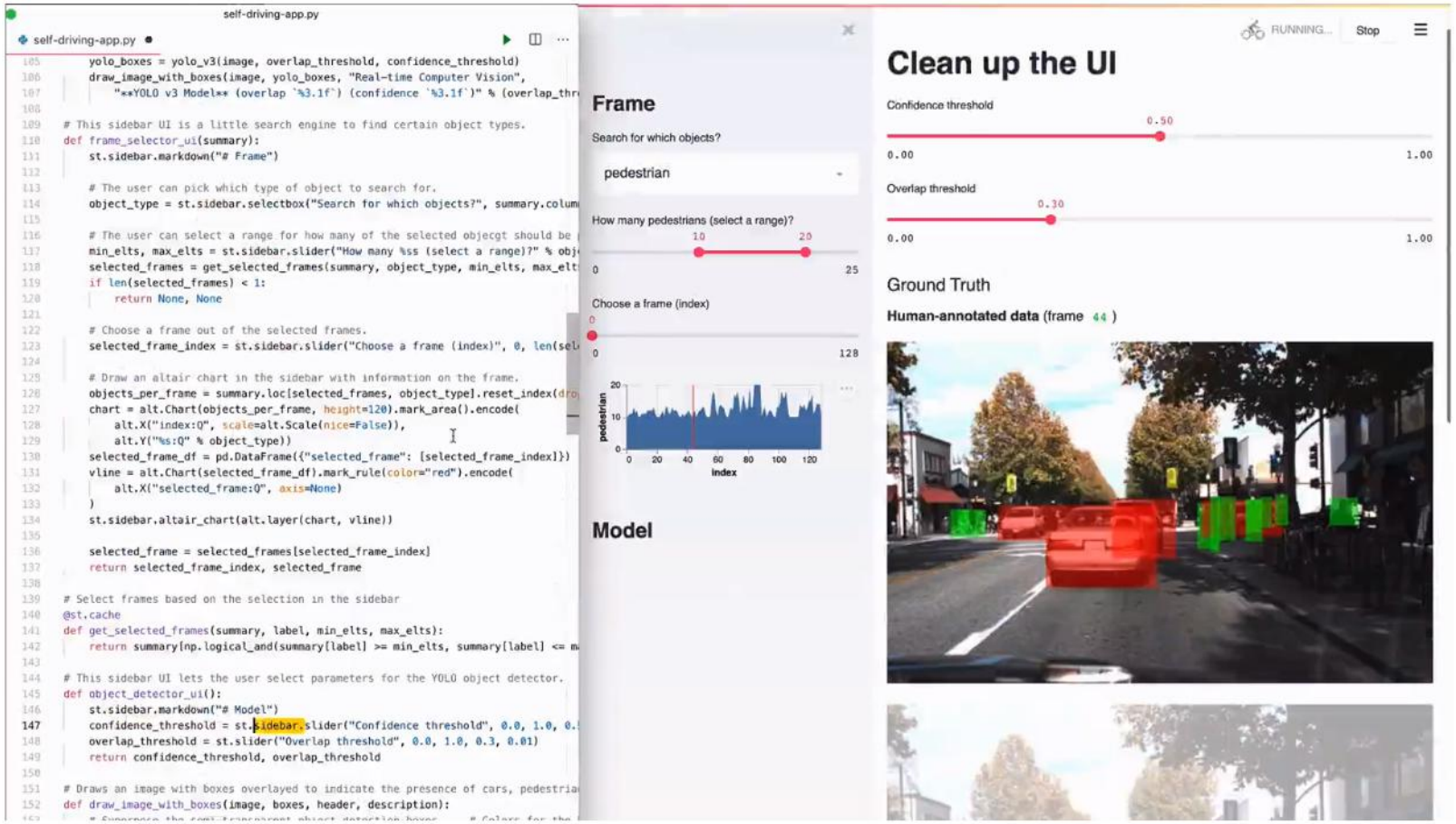
Lab 11 Interactive Design

Xuan Song
Songx@sustech.edu.cn

Interaction



Python Streamlit.io



Rapidly build all the apps you need with Streamlit's open source library. You can find the full source code for the semantic search engine above here.

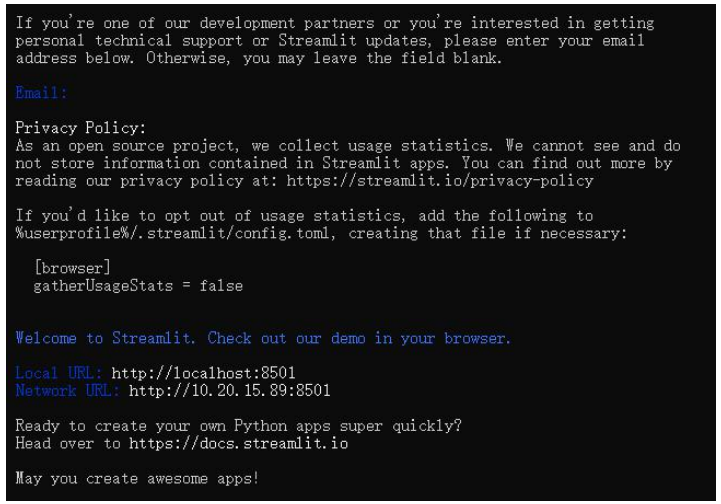
Very Powerful.

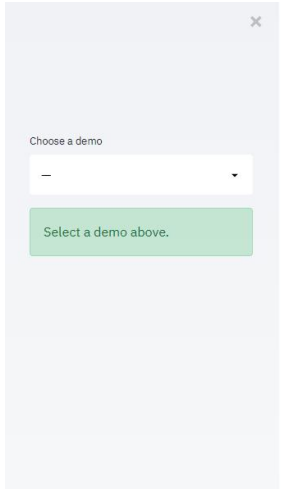
How to?

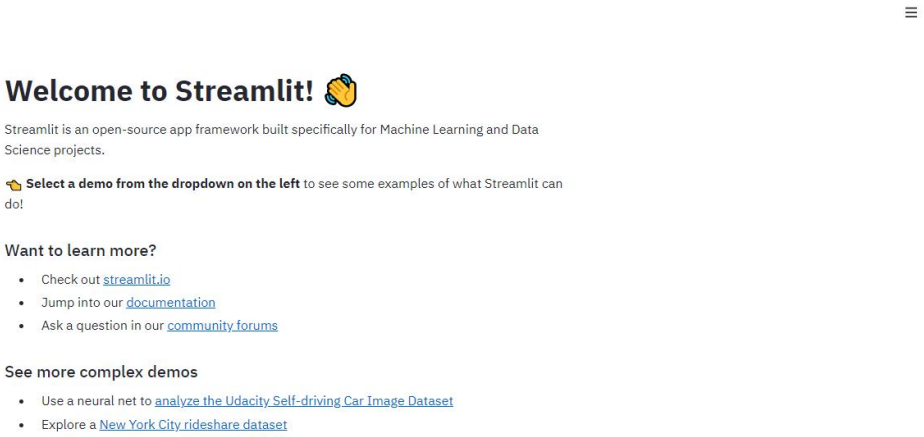
1. In your terminal, type “conda install streamlit” (Make sure you are in your environment first!)
2. In the same terminal, type “streamlit hello” (It should work 100% on your local computer without port issues)

* If there is an error with Git path, you will also want to “conda install git”.

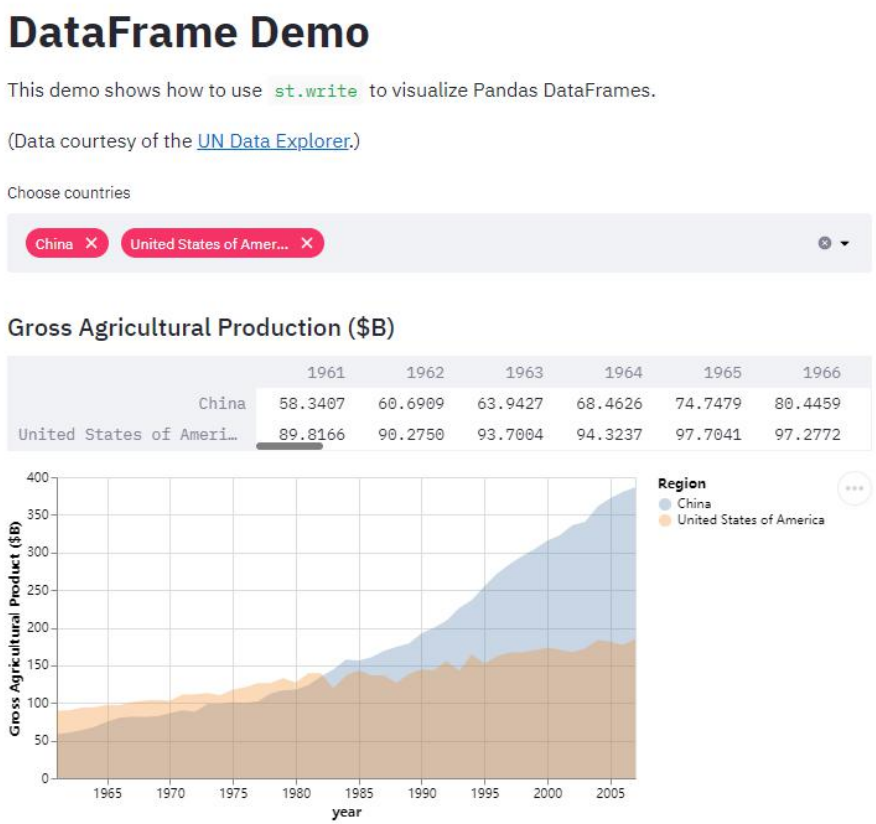
Then after you “streamlit hello”, you will be asked to fill in your email (totally optional) if it is the first time you are using streamlit. Let's just ignore it and wait till the program pulls up a demo page:







DataFrame Demo



The demo comes with many kinds of interactive visualization design, for today, we will only look at the DataFrame Demo.

Look at the dataframe demo (with show code checked), and now, try to create your own app.py that reads in some data and show the data as well as the plot.

You will need to put your code in a .py file, you will run it by “streamlit run app.py” (make sure you are in the correct folder!)

Exercise 1

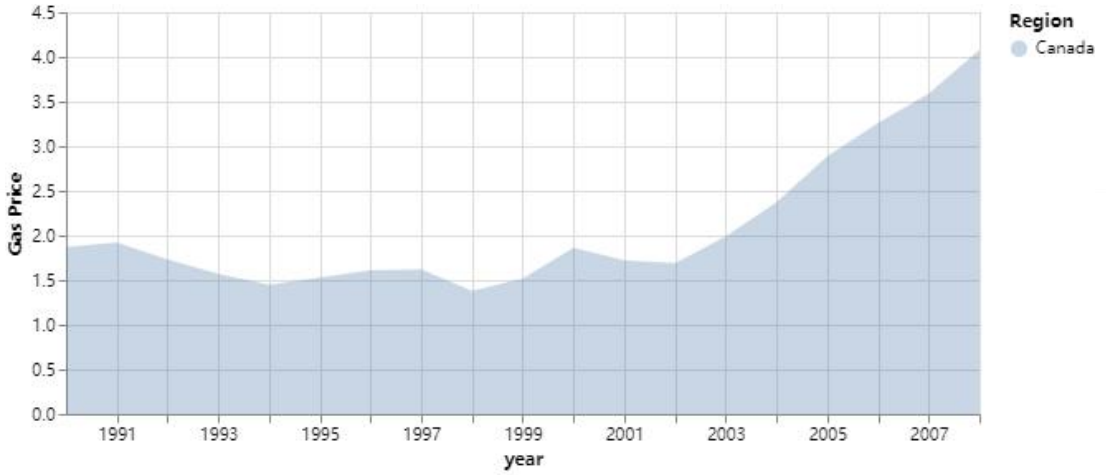
Now, visualize this!

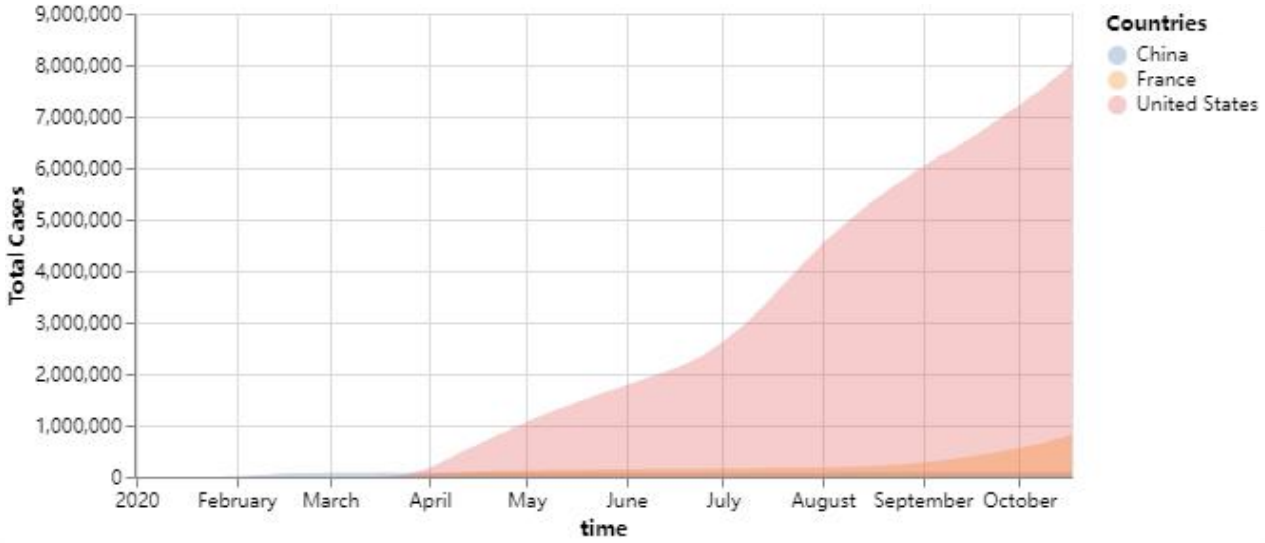
For Beginners
--Easy

Hard Mode

You will want to first transform the data to really make it fit the visualization plot.

Exercise 1 Example Result





End of Lab 11