

Flu Prediction System

User Manual

System Overview

Based on real-time Twitter data, the Flu Prediction System calculates a “flu score” and tells you if it’s likely to be a flu soon, and of course, you can choose the location you care about most, all the data would be retrieved around the state you picked up. Moreover, you can also check out more details such as how the keywords counts change during a certain period and which is the most counted flu-related keyword if you feel like to do. Excited? Let’s get started!

Welcome Page

As shown below (Figure 1), a cute welcome page will show up when you open the jar file. Just click “Let’s get started” button to get to the main page.



Figure 1

Main Page

Main page is the core functionality interface in Flu Prediction System. It consists of four components: menu of choosing location, map view, check flu button and alert box.

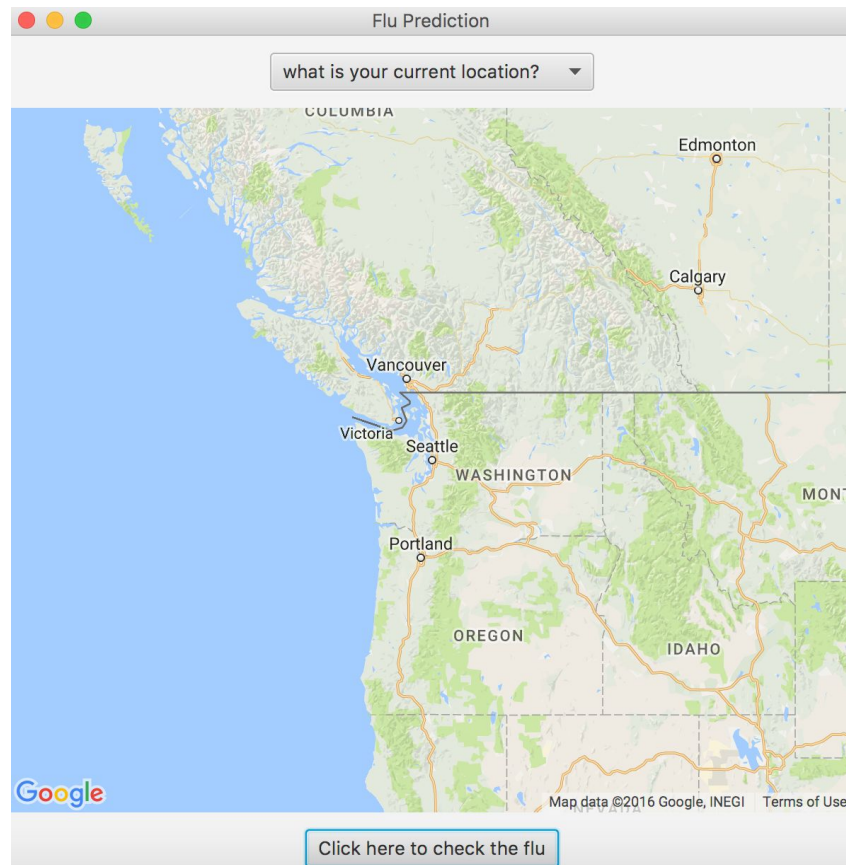


Figure 2

Location Menu

On the top there is a menu of all states in the U.S, when you click, you will see a list of state names where you can pick up one you want to check if it's going to be flu there.

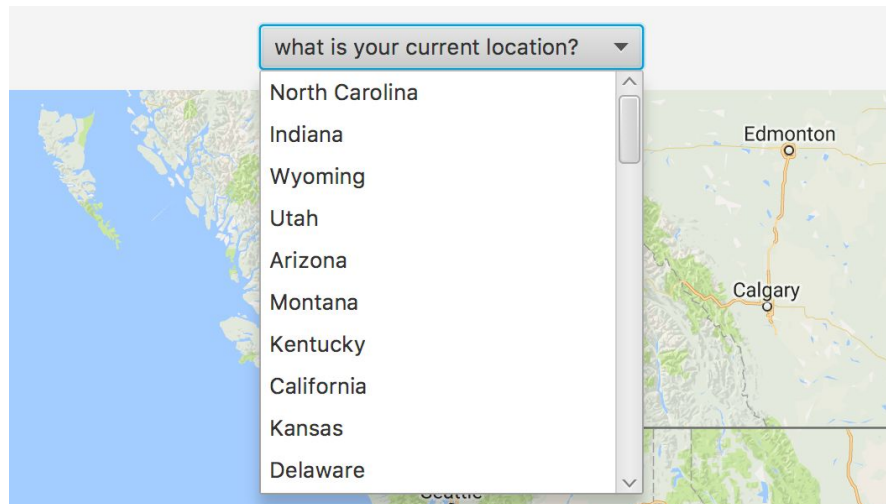


Figure 3

Map View

In the center of this window is a map view. The scenario will move as the location you choose. For example, if you choose New York, the window is going to zoom to New York, where the circle indicates the geographic range of Twitter data retrieving.

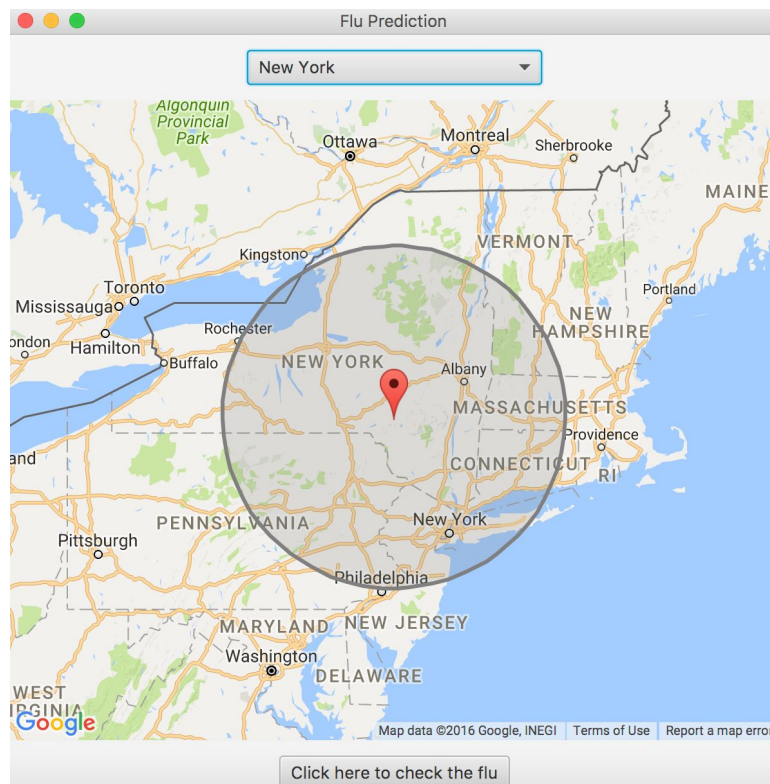


Figure 4

Check Button

The button on the bottom let you execute the action of checking flu status. After hitting, it might take a few seconds for the programme running to get analysis work done. But make sure you've picked a specific location before you click the button.

Alert Box

Alert Box (see Figure 5) shows up after you hit “check flu” button. It will tell you whether the flu is coming around. For example, at the time I check the flu status in New York, the alert box tells me it's not likely to be flu there. If you want to know more, click “find more”, you could go back to check another location as well.

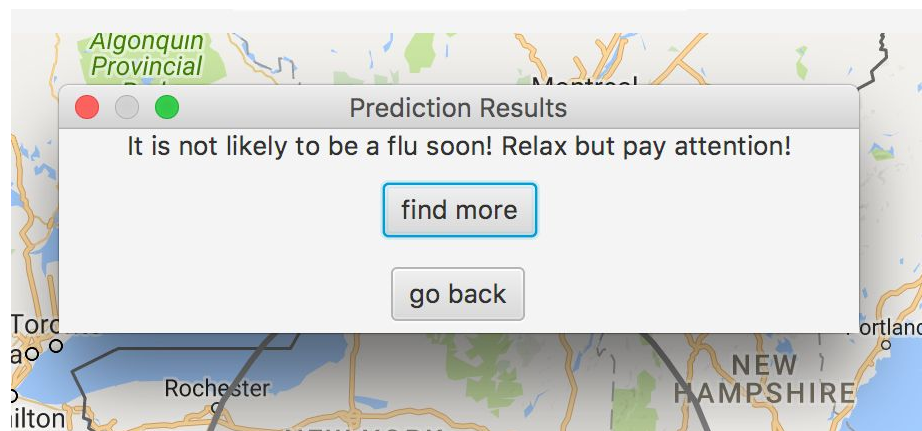


Figure 5

Details Window

This window presents some virtualized data in terms of keywords counts and how they changed over the past two periods. For example, the counts of keywords goes up in past two periods(3 days each), but the increasing rate is not very significant, that's the reason why the alert box didn't say it is going to be flu.

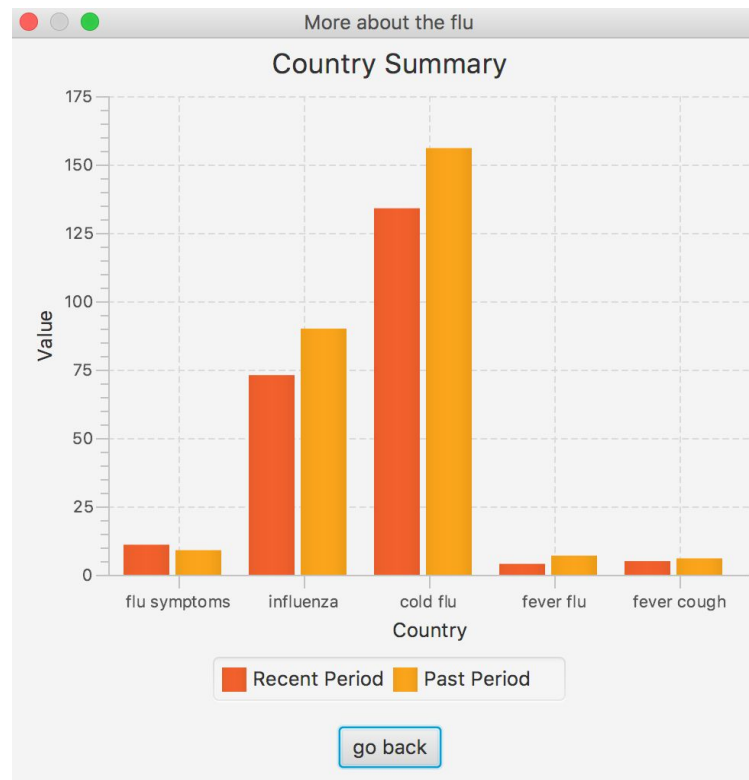


Figure 6

Exit Program

You can exit the program at any stage of program running, just click the red spot on the left top of the window. Once clicked, you are done. You're always welcomed to open it again to check the flu status.