Finding Your Café
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Workflow requirement: shiny, shinydashboard, leaflet, sqldf

Guiding question and application description:

I believe that everyone needs coffee shops in his life due to different reasons, such as business talk

and meeting up with friends. But everyone may also have his own requirement or criteria for coffee

shops under different situations. Therefore, how to find an appropriate coffee shop is a question

worthy of discussion.

In order to solve this problem, I find a valuable data set named '<u>DDOT Sidewalk Cafe Inspections</u>'

from open data DC. This data contains broad information of nearly 500 coffee shops in DC.

Besides the geographical information, the data set also provide many useful attributes, such as

neighborhood and operation time. Therefore, by analyzing and visualizing this data set, the

problem could be solved based on these attributes.

Based on this objective, I develop a shiny application. It's for people who User can use this

application to find appropriate coffee shops according to his personal requirement. To make the

result more intuitionistic, this application includes map visualization, which allows user to see the

coffee shops directly based on his choices.

The application consists of two parts: requirement selection and visualization. On the left side of

this application, user can select his target location, including quadrant and neighborhood, and

personal requirement. After selection, user can get result on the right part. The map will show the

detailed location of coffee shops that satisfy user's requirement. The application is interactive from

two aspects. First, the center of map will change to the neighborhood user choose by clicking on

action buttons. Second, based on the selection, the application will make a subset of the original

data set. Only coffee shops that satisfy user's requirement will appear on the map and those do not

satisfy user's requirement will be removed automatically. In addition, user can get detailed

information of the coffee shop he is interested in by clicking on the icon in map directly