Building Permit Data R Project Final Update

* Overview

Currently, the RScript takes the St. Louis Building Permit Data Base from its Microsoft Access Data Base and delivers a shape file of permits that have been selected from a given period of time. The timeframe can be adjusted to pull any span in the database as long as it is updated.

* Locations

There are a few important locations currently that must be updated as the file moves around.

* + Location of the RScript: G:\Interns\WUMC Interns\Andrew S\stl-building-permits\permit-data-cleaning
  + Location of the data base: G:/Projects/Monthly-Reports/stl-building-permits/permit-data-cleaning
  + Location where the shapefile is delivered: G:\Interns\WUMC Interns\Andrew S\stl-building-permits\permit-data-cleaning
* Next Steps

The next steps should be to aggregate the neighborhood level data in the script. Neighborhoods are coded with a number, and the reference of what numbers correspond with what neighborhood can be found here. <https://www.stlouis-mo.gov/government/departments/planning/documents/upload/CitywideNeighborhoodMap-2.pdf>

I am uncertain how much R can be used to change what happens in the shapefile, but that would expedite the mapping process. Or, rather, a template could be made for permit data and the shapefile of permits could be manually moved into the template.

* Current Limitations

Many of the fields of interest in the database come in formats that are difficult to use. When the files are opened in ArcGIS, many dollar numbers become unusable because they are neither string or numeric.

The transfer of the Access Database takes about 5 minutes for every import, I am not sure if there is any other option.