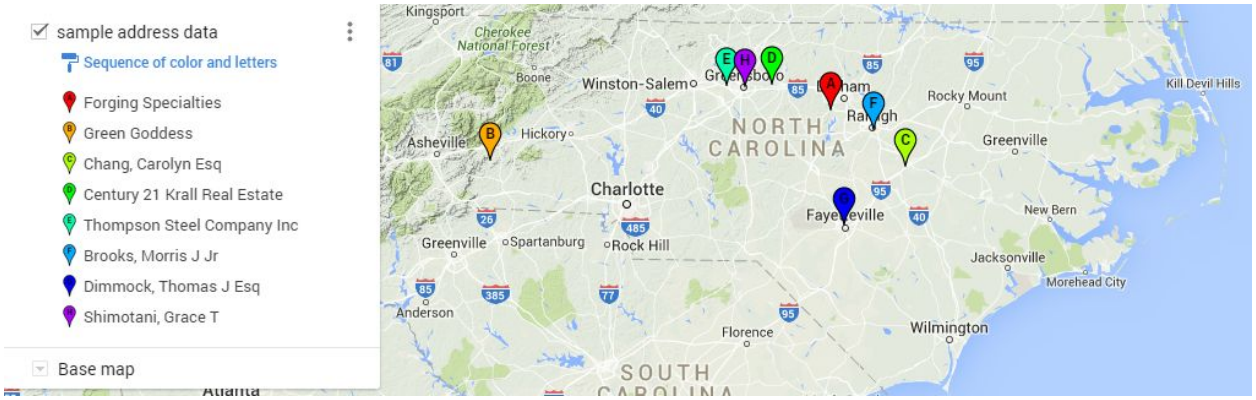
Demonstrate JSON Parsing

1. in OpenRefine, **Create Project** from file "**sample-us-address-data.csv**"
2. Construct a full address
    a. **`address > Edit column > Add column based on this column`**…
    b. `value + " " + cells["city"].value + " " + cells["state"].value + " " + cells["zip"].value`
    c. Column name = `full address`
3. Fetch latitude and longitude from google maps
    a. **`full address > Edit column > Add column by fetching URLs`**…
        i. column name = `JSON data`
        ii. Expression =
        ```
        'https://maps.googleapis.com/maps/api/geocode/json?' +
        'sensor=false&key=<<INSERT YOUR Google Console Key>>' +
        '&address=' + escape(value, 'url')'
        ```
        (See Slide Notes: https://DSVIL2018/slides/api_50.html#p15)
        iii. Throttle delay = `2000`
        iv. View the JSON data in a JSON data viewer
            1. http://jsonviewer.stack.hu/
4. Parse JSON
    a. **`JSON data > Edit column > Add column based on this column`**…
    b. New column name = `longitude`
    c. Expression = `value.parseJson().results[0].geometry.location.lng`
    d. **`JSON data > Edit column > Add column based on this column`**…
    e. New column name = `latitude`
    f. Expression =`value.parseJson().results[0].geometry.location.lat`

5. Show the new coordinates on a map
    a. Export the Parsed File as CSV
    b. Open Google Drive > New Map
    c. Import the CSV file

Show latitude & longitude geolocated on a Map



The presentation contains links to directions and sample data . Each section of the workshop can be completed at your own pace.