

Google Maps APIs Reverse Geocoding

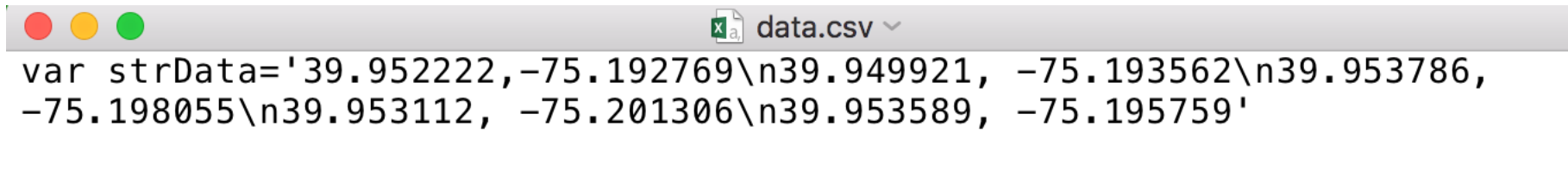
Luyun Zhao

Reverse Geocoding

- **Reverse geocoding** is the process of back (**reverse**) coding of a point location (latitude, longitude) to a readable address or place name. (Wikipedia)
- Example
<https://developers.google.com/maps/documentation/javascript/examples/geocoding-reverse>

Reverse geocoding a bunch of locations

- Use case: have the GPS Coordinates data and want to know the Addresses
- get a key:
<https://developers.google.com/maps/documentation/javascript/get-api-key>
- [reverse geocoding.html](#)
- Inputs: csv or txt or js file contains var strData = “, csvToArray.js



```
var strData='39.952222,-75.192769\n39.949921, -75.193562\n39.953786, -75.198055\n39.953112, -75.201306\n39.953589, -75.195759'
```

- Function: geocoder.geocode
- Outputs are addresses shown on the web page

Get Point of Interests

- Use case: have the GPS Coordinates data and want to know the POIs
- [GPS Coordinates to POIs.html](#)
- Function: `service.nearbySearch`
- Outputs: POI name and type
- Result component:
<https://developers.google.com/maps/documentation/javascript/reference#PlaceResult>

Search certain kind of POI

- GPS Coordinates to POIs (Type).html
- Supported Types:
https://developers.google.com/places/supported_types
 - Accounting, airport, amusement_park, aquarium, art_gallery, atm, bakery, bank, bar, beauty_salon, bicycle_store, etc.

Using gaode Map API for Chinese locations

- [gaode.html](#)
- Return Address, POI name, and POI type

Documentation

- <https://developers.google.com/maps/documentation/javascript/geocoding>
- <https://developers.google.com/maps/documentation/javascript/places>