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| --- | --- | --- |
| Input | Process | Output |
| OSM\_museum@England | 1. place/ get polygon and bbox from osm.ipynb | Different shapes of museums.geojson |
| Shapes\_of\_museums.geojson  Raw social media (not included in github, multiple GB) | 2. social media/ bound\_sm\_with\_buffer.py | Sm#[fl|tw]\_[1|2|3]#shape\_of\_museum.csv |
| Sm#[fl|tw]\_[1|2|3]#shape\_of\_museum.csv | 3. correlation\get month level sm array from bounded sm.ipynb | mn\_lvl\_sm#[fl|tw] # shape\_of\_museum.csv |
| **months\_of\_interest.txt**  **museum\_statistic\_clean.csv(ground truth)**  **mn\_lvl\_sm#[fl|tw] # shape\_of\_museum.csv place\_area.csv**  **place\_population\_museum.csv** | **3. correlation/ correlation between social media and museum.ipynb**  **(load data🡪build matrix YXs🡪place level, category level correlation with different features🡪visualization using plotly)** | **Plots, r square** |