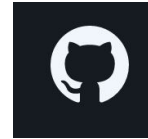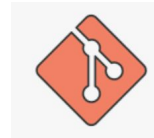# Display Your Map on a Website Using Geopandas , Folium , Django , and Heroku … with git & github

Gregory Wallace - GeoPython 2022

Whoami

I work in an energy distribution company in Paris

(admin rights & internet access issues)

Data Scientist with many use cases in geomarketing

(use this for for proof of concepts - not production)

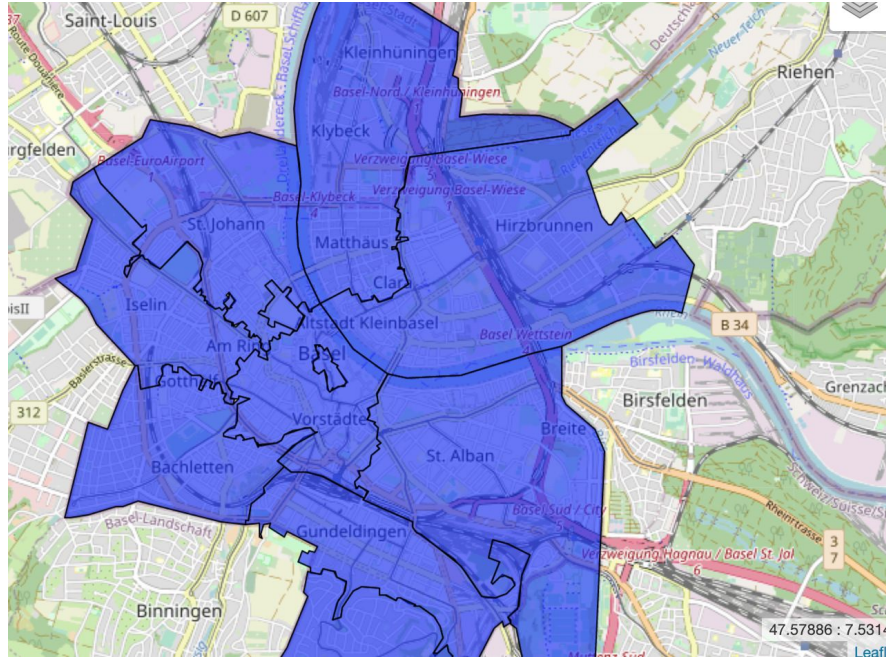Switched from finance to data science & GIS 5 years ago

(no expert in web dev)

Live in la Rochelle , western coast of France & like swimming

(there seems to be a good open air swimming pool in Basel)

Demo

Url should look like :

https://anyuniquename.herokuapp.com/ + extension

Agenda

1. We describe the ingredients needed
2. We use Geopandas to prepare a Folium map
3. We prepare a Django application to render the map
4. We see how to deploy to Heroku
5. We look at some pros and cons

Current presentation and detailed steps are in a public github repo so no need to take notes https://github.com/gregwalla/geopythonBasel

Ingredients and purpose

An OS, with python >3.6 & internet access	Install libraries & push code to Heroku
IDE of your choice	data & html file preparation
Build-in python venv	manage dependencies
Command line	navigate, start venv , push codes
Geopandas & Folium libraries	data & html file preparation
Django library	prepare the website
Git	deploy the app to Heroku
Gunicorn library - WSGI & a procfile	deploy the app to Heroku
option1 - Heroku Client (if admin rights)	manage & deploy the app on Heroku
option2 (preferred) - Github	deploy on Heroku & backup the documentation

Geopandas to prepare a Folium map

From data to html file

Serve our map in a Django app

From html file to local web site

venv

User

Django

Model

out of scope

URL ⟷ View

Template

HTML

mysite

127.0.0.1 →

postleitzah 4058

django schema source : https://www.javatpoint.com/django-mvt
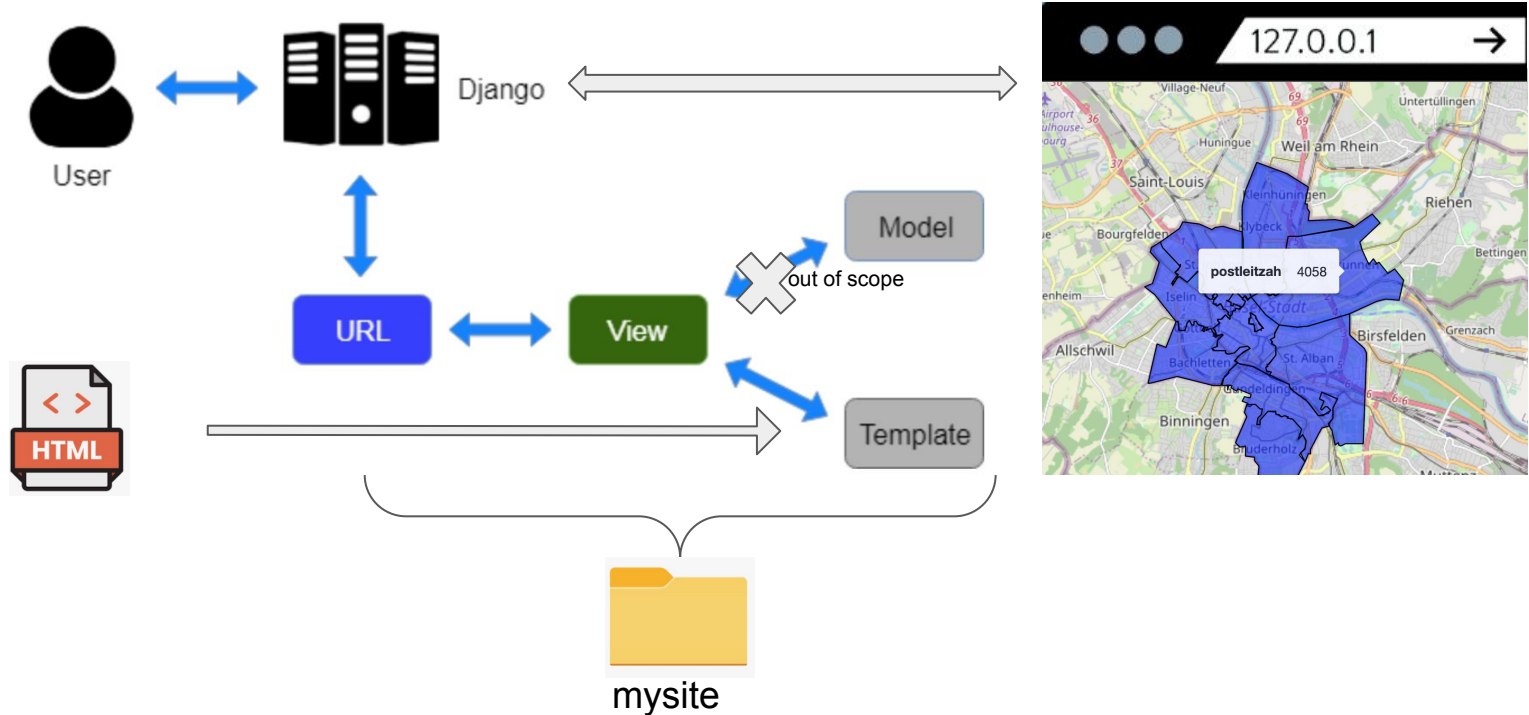
Deploy the app to Heroku

From local website to web app

+ ext

mysite

or
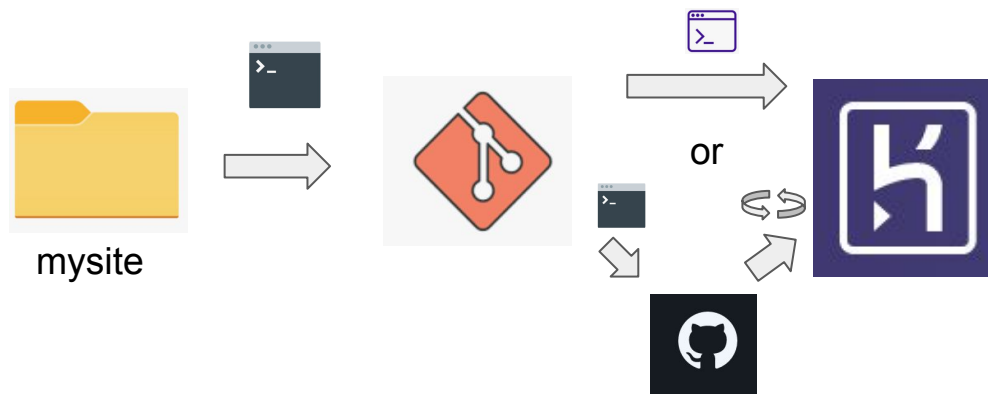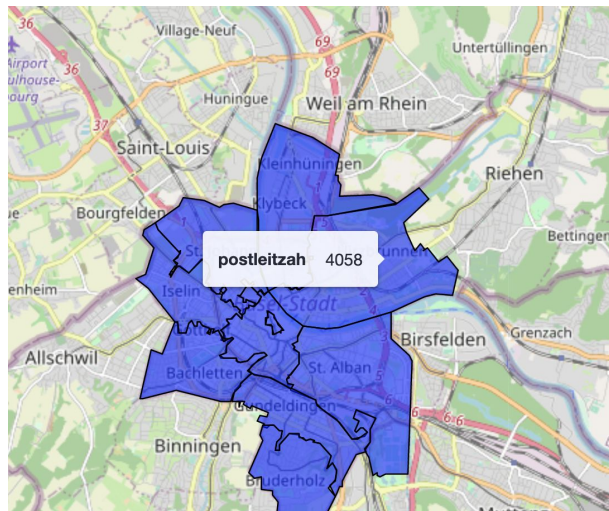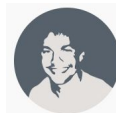
With thanks to   Corey Schafer
925 k abonnés

Pros & Cons
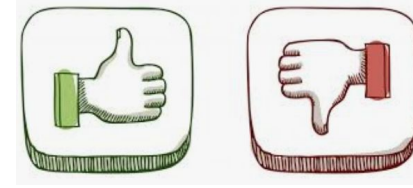
Free & no admin rights	No governance
Web app can be embedded in a conversation as a link	An html file stored in a shared folder or sent via email could be fine
Once set up it is easy to iterate	Except if it breaks

That's all Folks!
THANK YOU