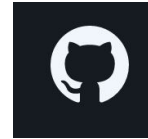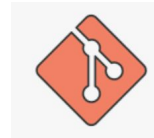# Display Your Map on a Website Using Geopandas , Folium , Django , and Heroku ... with Git & Github

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)

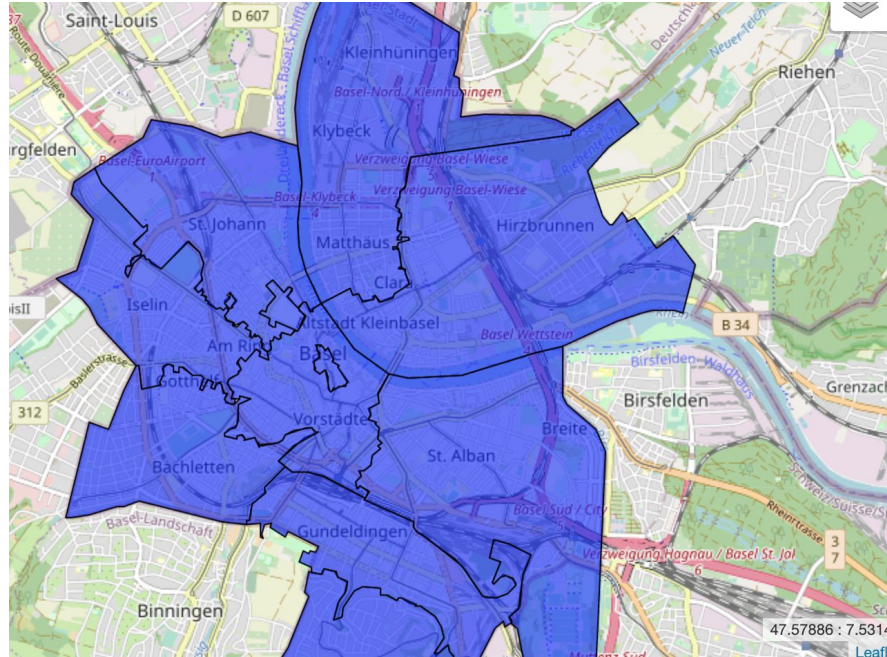Switched from finance to data science & GIS 5 years ago

(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 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

127.0.0.1

Model

out of scope

URL

View

Template

HTML

mysite

postleitzah 4058
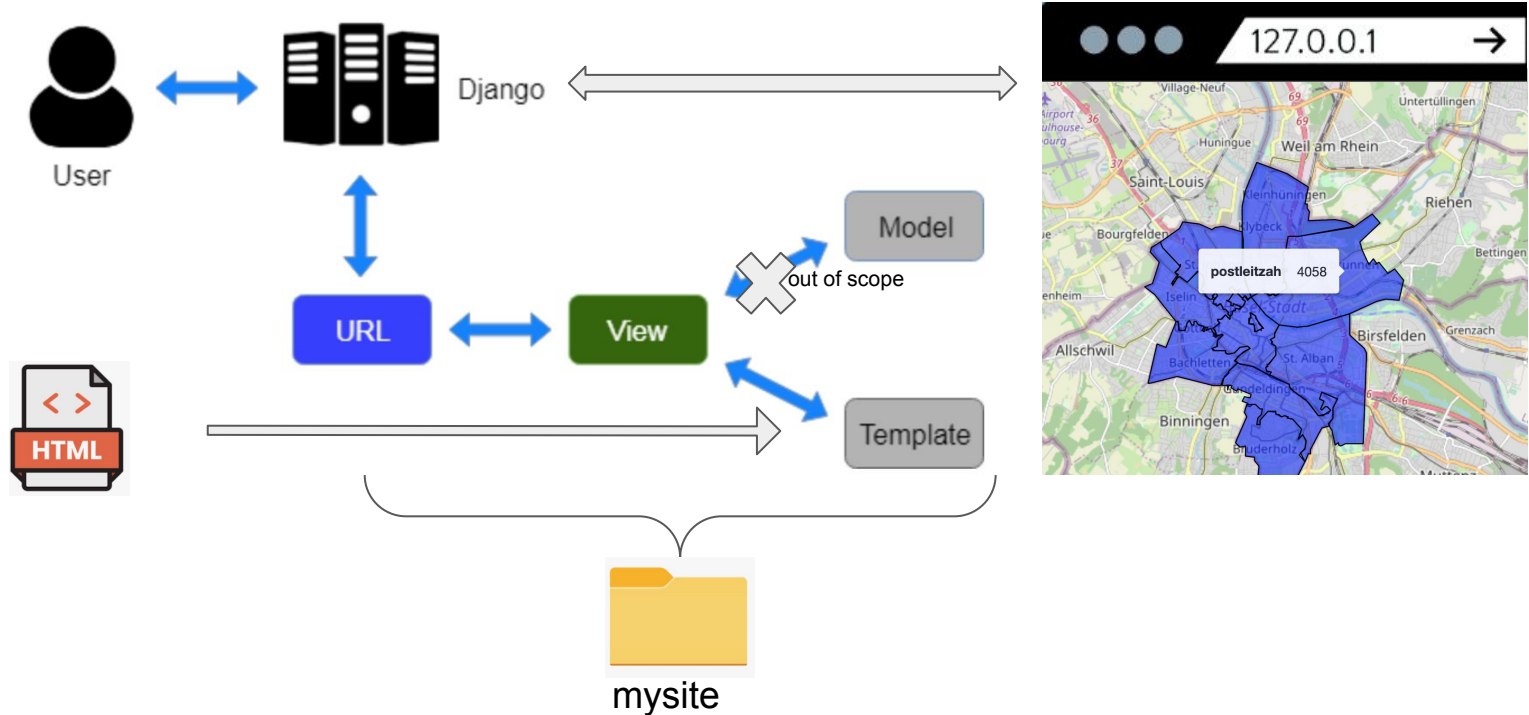
Deploy the app to Heroku

From local website to web app

mysite

or
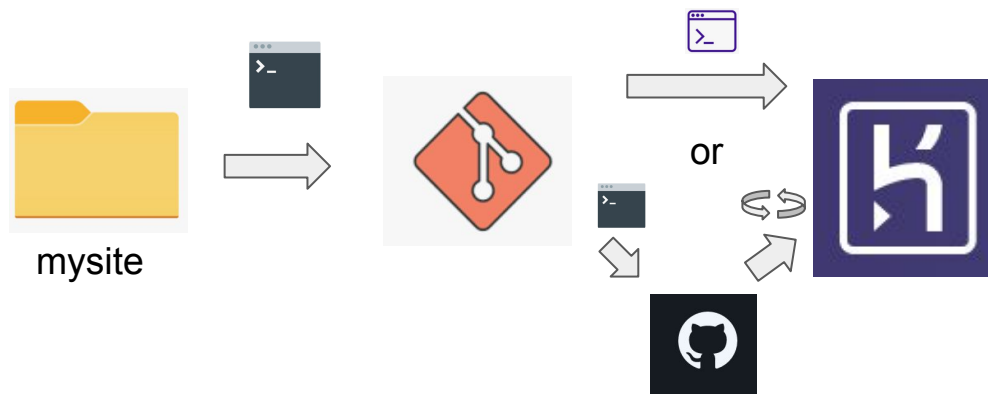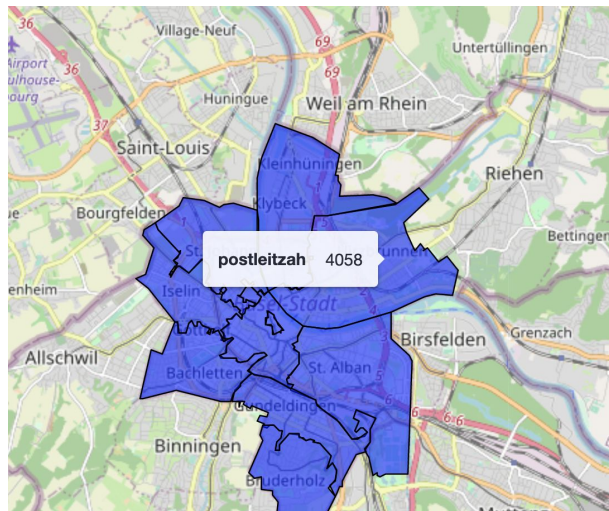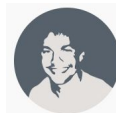
With thanks to   Corey Schafer
925 k abonnés

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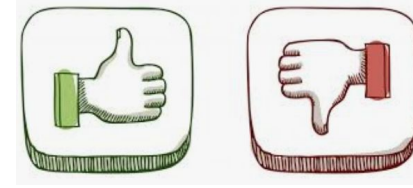
Free & no admin rights	No governance
Web app can be embedded in a conversation as a link	An html file stored in a shared folder or sent via email could be fine
Once set up it is easy to iterate	Except if it breaks

That's all Folks!
THANK YOU