

**Why are Longitudes and
Latitudes so smart ? 🧐**

Because they have a lot of
degrees 🎓 🎓 🎓

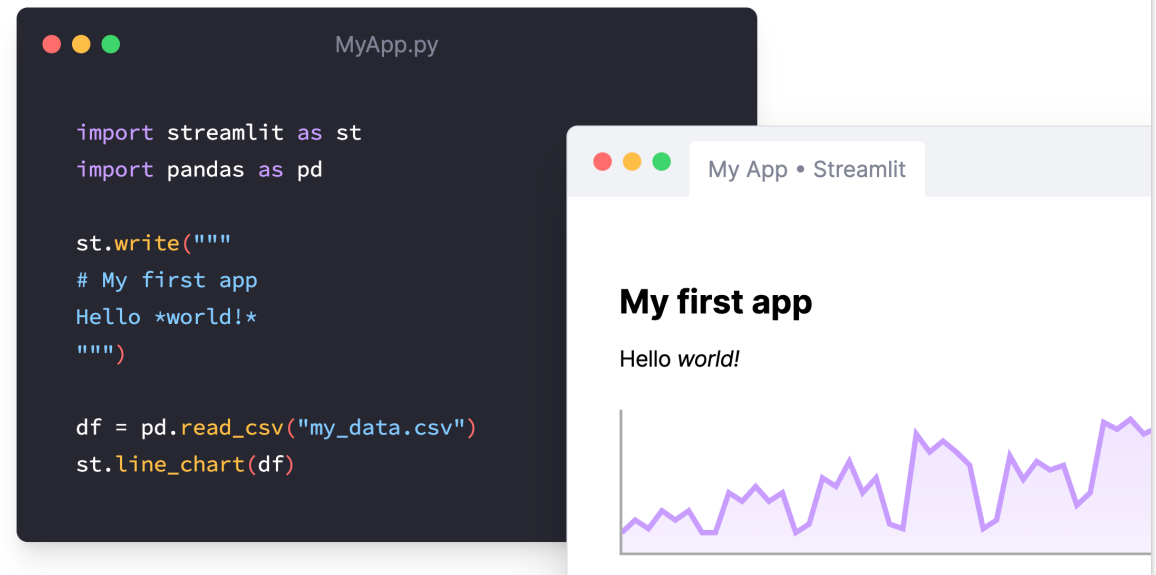
“You certainly don’t need a degree to get started with Streamlit.”

What is Streamlit 🤔

- Streamlit enables you to turn your Python scripts into Geospatial web-applications. No front-end experience is required.
- Streamlit is open source.
- You can deploy your apps for free using Streamlit Community Cloud: <https://streamlit.io/cloud>

Embrace scripting

Build an app in a few lines of code with our **magically simple API**. Then see it automatically update as you iteratively save the source file.



Resources

- Streamlit Crash Course (25min video): <https://www.youtube.com/watch?v=d7fnzDQ5qM8>
- Streamlit Playground (write and run Streamlit code online): <https://streamlit.io/playground>
- Gallery: <https://streamlit.io/gallery>
- Documentation: <https://docs.streamlit.io/>
- Community forum: <https://discuss.streamlit.io/>
- Youtube channel: <https://www.youtube.com/@streamlitofficial>

Try out a limited version of Streamlit right in your browser.
Just edit the code below and the app on the right updates automatically.
For the real thing, **install our Python library**.

EXAMPLES Blank Hello Charts Dataframes LLM chat Computer vision **Geospatial**

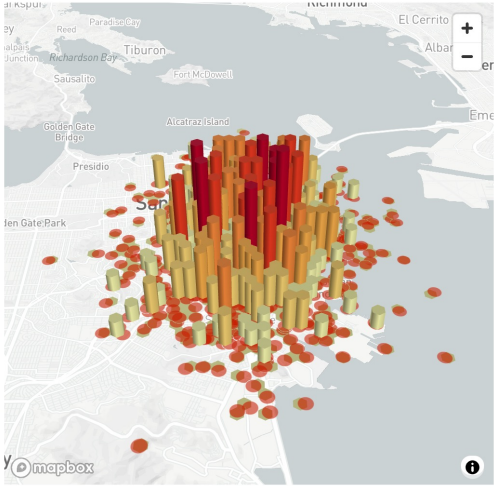
```
import streamlit as st
import pandas as pd
import numpy as np
import pydeck as pdk

st.write("Streamlit has lots of fans in the geo community. 🌍 It sup

chart_data = pd.DataFrame(
    np.random.randn(1000, 2) / [50, 50] + [37.76, -122.4],
    columns=['lat', 'lon'])

st.pydeck_chart(pdk.Deck(
    map_style=None,
    initial_view_state=pdk.ViewState(
        latitude=37.76,
        longitude=-122.4,
        zoom=11,
        pitch=50,
    ),
    layers=[
        pdk.Layer(
            'HexagonLayer',
            data=chart_data,
            get_position=['lon', 'lat'],
            radius=200,
            elevation_scale=4,
            elevation_range=[0, 1000],
            pickable=True,
            extruded=True,
        ),
        pdk.Layer(
            'ScatterplotLayer',
            data=chart_data,
```

Streamlit has lots of fans in the geo community. 🌍 It supports maps from PyDeck, Folium, Kepler.gl, and others.



Hello World

What is your name?


 Gee Fernando

 Hello Gee Fernando


When's your birthday

1989/08/18

 Gee Fernando is 35 years old

 Send balloons

Where were you born?

 Colombo, Sri Lanka



```
import streamlit as st
from datetime import date
from geopy.geocoders import Nominatim
import pandas as pd
```

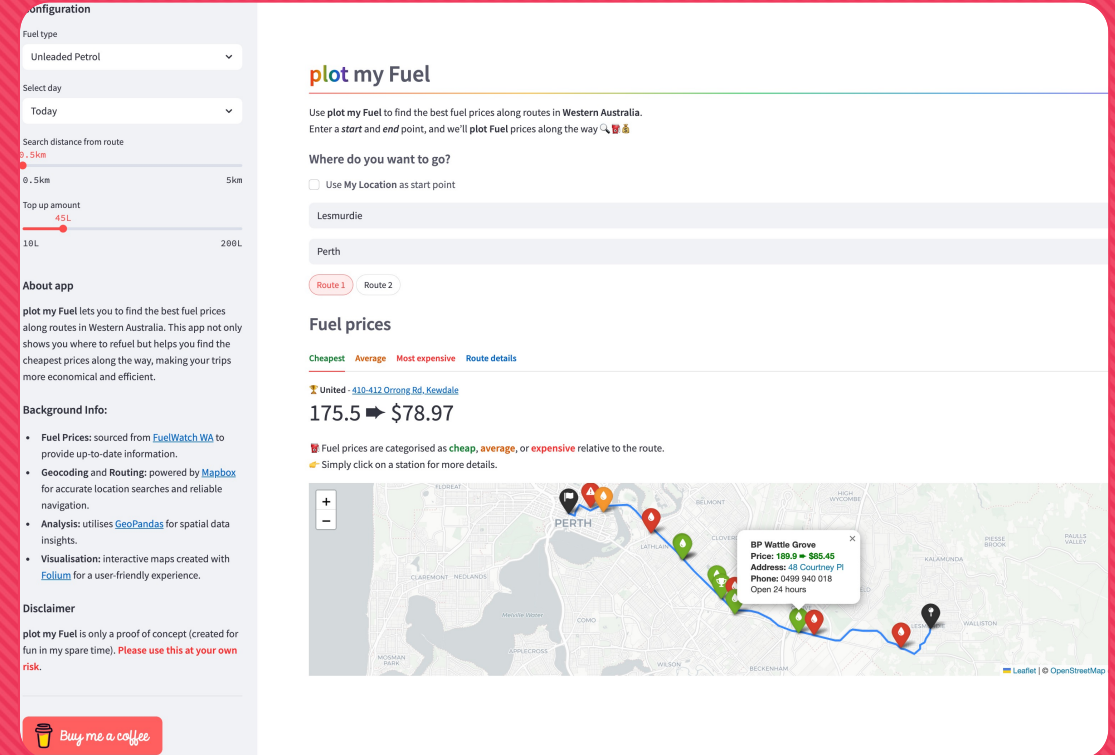
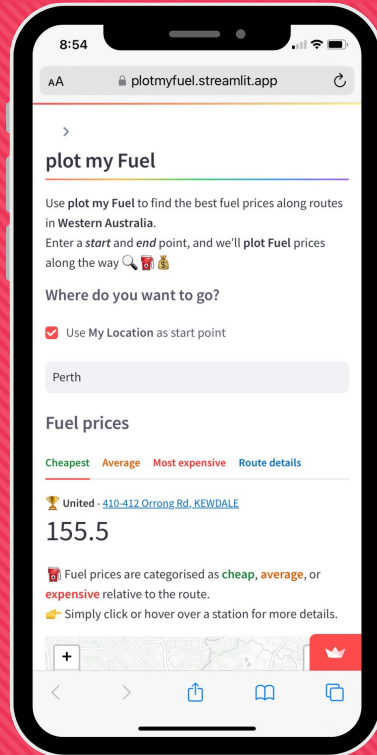
```
## Title ##
st.header(":rainbow[Hello World]", divider="rainbow")
```

```
## Text input ##
person_name = st.text_input("What is your name?", icon="👤")
if person_name:
    st.info(f"Hello {person_name}", icon="🎈")
```

```
## Date input ##
person_birthday = st.date_input("When's your birthday", value=None, min_value=date(1900, 1, 1), max_value="today")
if person_birthday:
    today = date.today()
    person_age = today.year - person_birthday.year - ((today.month, today.day) < (person_birthday.month, person_birthday.day))
    st.info(f"{person_name} is **{person_age} years** old", icon="🎂")
```

```
if st.button("🎈 Send balloons"):
    st.balloons()
```

```
## Geocoding and mapping ##
person_birthplace = st.text_input("Where were you born?", icon="📍")
if person_birthplace:
    geolocator = Nominatim(user_agent="my-geocoder")
    location = geolocator.geocode(person_birthplace)
    if location:
        location_dataframe = pd.DataFrame([{"latitude": location.latitude,
        "longitude": location.longitude
        }])
    st.map(location_dataframe)
```

plot my Fuel - <https://plotmyfuel.streamlit.app/>