GeoItinR — Quick User Guide (EN)

GeoItinR is a Shiny app that turns a simple Excel into an interactive, geocoded travel itinerary. It maps destinations and routes (Leaflet), supports English/Catalan/Spanish, and includes editor tools to complete missing coordinates and Wikipedia links.

Requirements & Install

- R ≥ 4.2; packages: shiny, shinyWidgets, leaflet, leaflet.extras, dplyr, DT, osrm, sf, readxl, writexl, tidyr, lubridate, rlang, httr2, tidygeocoder, tmaptools, bslib, waiter, shinybusy, osmdata.
- Install once:
  install.packages(c("shiny","shinyWidgets","leaflet","leaflet.extras","dplyr","DT","osrm","sf", "readxl","writexl","tidyr","lubridate","rlang","httr2","tidygeocoder","tmaptools","bslib","waiter","shinybusy","osmdata"))

Run

- Open R in the folder that contains app.R.
- Run: shiny::runApp("app.R")

Excel structure (short)

- Sheets: Places*, Stages*, Hotels, Interest, Info (*mandatory).
- Places: place_id | city | country | lat | lon | wikipedia
- Stages: stage | from_id | to_id | date | description | transport | comments
- Hotels: place_id | hotel_name | hotel_link | details | hotel_lat | hotel_lon
- Interest: descriptor | lat | lon | city | country | details | type | link
- Info: tidy (country | field | en | es | ca) or wide (country | documentation | local_time | language | internet | plugs | currency).

Basic use

- Choose UI language (EN/CA/ES). Load Excel (upload or www/).
- Select a date with the inline picker or tick "Show all stages".
- Filter markers by type: Flights, Car, Train, Boat, Visit.
- Toggle "Show hotels on the map" to display hotel markers/clusters.
- Explore panels: Stage details, Hotels per stage, Places of interest, and country Info.
- Export the harmonized workbook with Download Excel.

Editing tools

- Enable "Allow edit" to unlock tables and tools.
- Autocomplete: fill missing coords + Wikipedia + hotels + interest.
- Geocode selected places: only selected rows in Places are updated.
- Manual coordinates: pick a place, click the map to capture lat/lon, then Apply.

- Wikipedia (selected): fill links just for selected places.

Map & routing

- Base map: OpenStreetMap. Driving routes via public OSRM; flights/trains/boats are straight lines.
- Layers control: Flights, Trains, Boats, Drive, Destinations, Visits, Hotels, Interest.

Tips

- No markers? Ensure lat/lon in Places or use Autocomplete.
- No Interest for a city? Complete coordinates or use Autocomplete.
- Missing routes? OSRM may be busy—try again or reduce car legs.
- Excel not recognized? Check mandatory sheets and column names.

You can try an interactive instance of **GeoItinR** here:

(**https://pyrprs.shinyapps.io/trip_app/**)

This server is meant for functionality testing and demos. Performance and availability may vary depending on server load. The demo uses the app's default upload cap (configured in the code) and includes example datasets to explore the workflow quickly.