Create_POI

Version and Licence

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https://mapicons.mapsmarker.com

- The last download of icons placed on motorradtouren.de is version 12/2023.
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About

This program pulls data from OpenStreetMap using the Overpass Turbo API. Pulled data is then converted to Waypoints in different formats:

- GPX
- GPI = Garmin Points of Interest
- KML (Organic Maps format)
- KML (Oruxmaps format)

Use

Create_POI has no user interface. All parameters are set via command line parameters and a JSON file.

As a result, you receive

- converted KML(s) with the name {clear_name}-{country}
- all KML of a region are packed in one ZIP named {clear_name}-{region}
- all ZIP of a query will be packed into one ZIP named {clear_name}-ALL.zip

Similar is true for GPX, GPI, KML_organic.

If there are any errors, you will be informed.

Using the JSON file

7z

in_scope Set which Geos you want to pull data from.

In_scope1 just to easily park another working in_scope. Will be ignored by code.

remark Write some remarks. Will be ignored by code.

maps_geo Define the Geographies and their countries you want to pull data. Make sure you

write everything in small letter, and have an appropriate ISO code defined!

iso_code Make sure all countries you define are reflected in this section. Use uppercase letters!

to get everything packed 7z is used. 3. Make sure you have 7z installed and set the

path to the executable.

GPSBabel You need to have GPSBabel to be installed. Define the path to GPSBabel.exe NOT

GPSBabel**FE**.exe

```
"in scope" : ["central", "west," nordics", "east," wki", "southeast", "maghreb", "asia west"],

"in scoped" : ["central", "west," southeast"],

"in scoped" : ["my special"],

"reservit : Do not touch anything further down here except sy special ",

"reservit : ["permany", "austral", "wilterland", "licelitenstein", "netherlands", "belgiam", "luxembourg"],

"central" : [[permany", "austral", "wilterland", "licelitenstein", "netherlands", "belgiam", "luxembourg"],

"central" : ["france", "spanin", "portugal", "andorval"],

"overst" : ["france", "spanin", "portugal", "andorval"],

"overst" : ["demark", "seedem", "norway", "finland", "estonia", "lithuania", "iceland"],

"outheast" : ["ux", "lealand"],

"outheast" : ["inchreateries, "fisly," albania", "boslaria", "bulgaria", "croatia", "greece", "hungary", "kosovo", "macedonia", "montenegro", "romania", "serbia", "slovenia"],

"asjanes" : ["tunks", "georgia", "armenia", "azerbaijan", "iran"],

"y special" : ["germany"]

"forcod" : ["tunksy" : "fir,

"adorval" : "Out,

"andorval" : "Out,

"andorval" : "Cas,

"armenia" : "
```

Using the command line parameters

The command line parameters follow the python directory syntax. All key and tags need to follow the OpenStreetMap.syntax. Everything will be queried using the Overpass Turbo API.

Example 1:

```
Create_POI.exe --dictionary "{'key':'amenity', 'tag':'fuel', 'clear_name':'Gas_Station',
'icon':'Fuel.png', 'icon_color':'placemark-bluegray', 'brand':'false', 'brand_name':'',
'second_key':'', 'second_tag':'' }"
```

In this example we use key = amenity and its tag=fuel. So we query gas-stations. The icon is used in standard KML (Oruxmaps), the icon_color used to handle the POIs color for use with Organic.maps. The differences will be described later in this document. We do not query a brand nor do we use a secondary key.

As a result you will receive ALL gas-station in the area you defined.

Example 2:

```
Create_POI.exe --dictionary "{'key':'amenity', 'tag':'fuel',
'clear_name':'LPG_Gas_Station', 'icon':'gas-station.png', 'icon_color':'placemark-pink',
'brand':'false', 'brand_name':'', 'second_key':'fuel:lpg', 'second_tag':'yes' }"
In this example we use key = amenity and its tag=fuel. So, we query gas-stations. BUT now
we use a secondary key that filters the gas-stations to the ones who sell lpg gas.
```

Example 3:

```
Create_POI.exe --dictionary "{'key':'shop', 'tag':'motorcycle', 'clear_name':'BMW-Dealer', 'icon':'motorbike.png', 'icon_color':'placemark-orange', 'brand':'true', 'brand_name':'BMW', 'second_key':'', 'second_tag':''}"

In this example we use key=shop and tag=motorcycle. This means we search for motorcycle dealer (or someone selling motorcycle equipment, gear...). Next, we filter with brand=true, so we want to find a specific brand, in this case BMW. Second key and tag will not be used. As a readable name on our smartphone, we want to identify these waypoints with the name BMW-Dealer. The result will be all BMW dealer per your region defined as a KML/GPX/GPI file with the name "area"-BMW-Dealer (e.g., Germany-BMW-Dealer).
```

More examples take from the example batch files applied to the ZIP file.

Dependencies

Make sure you have 7z installed and set the path to the executable. Same applies for GPSBabel.

Queried Waypoints (Points of Interest)

Standard KML only (OruxMaps): Waypoints (POI) will be shown as icons. Based on how KML works, the icons need to come from somewhere in the web. By default, defined in the JSON, all icons used are addressed to my server http://motorradtouren.de/pics so they can be pulled from there

If you want to change that, change the JSON. It's easy to find.

If you decide to setup your own icon host, here is where you can download the icons:

https://mapicons.mapsmarker.com/wp-content/uploads/zip/mapiconscollection-markers.zip

If you want to define icons and need more information: Download the package via the link above. Find the icon you want and check if it works.

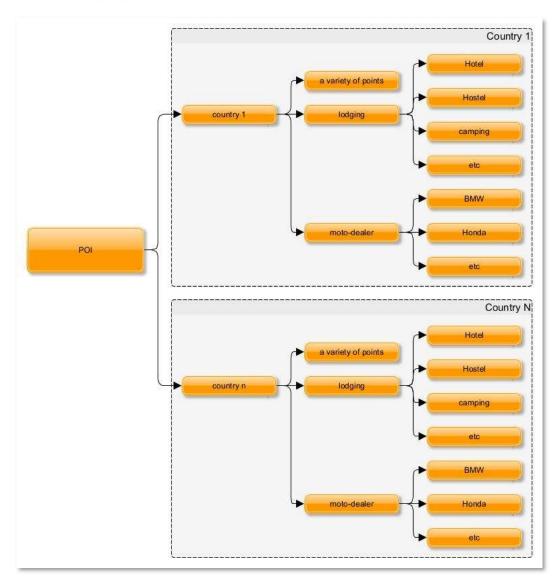
OrganicMaps KML: POI will be displayed in OrganicMaps as pins in the color you defined. The color definition is strictly done by OrganicMaps. There is a list of possible colors later in this document.

GPX: Icons in GPX can be defined according to the names defined by Garmin.

GPI (Garmin Points of Interest): Icons can be defined as a Bitmap in 24x24. Several examples are provided.

Folder structure

The output will be organised in folders that you can immediately copy to your device. The structure makes sure you find what you need at the place where you are. So, all points for e.g. Albania, are stored under \POI\albania. See more:



To maintain easy finding, moto-dealer are organized in their own subfolder as its true for all lodging options - OSM "tag = motorcycle" and "tag= hotel" and certain "others".

Setting Examples

Simply copy & paste these sections to the JSON (change the existing lines)

```
Guesthouses:
```

```
"key"
                                       : "tourism",
"tag" : "guest_house",

"clear_name" : "Guesthouse",

"icon" : "guest_house.svg",

'icon_color' : 'placemark-teal'
```

Apartment:

```
"key" : "tourism",
"tag" : "apartment",
"clear_name" : "Apartment.svg",
'icon_color' : 'placemark-teal'
```

Hostel:

```
"key" : "tourism",
"tag" : "hostel",
"clear_name" : "Hostel",
"icon" : "Hostel-16.svg",
'icon_color' : 'placemark-teal'
```

Hotels:

```
"key" : "tourism",
"tag" : "hotel",
"clear_name" : "Hotel",
"icon" : "Hotel-16.svg",
```

'icon color' : 'placemark-teal'

Camper_Car_Site:

: "tourism", "key"

"tag" : "Camper_Car_Site", "clear_name" : "Camper_Car_Site",

"icon" : "Camping-16.svg", 'icon_color' : 'placemark-deeppurple

LPG Gas Stations:

: "amenity", "key"

"tag" : "fuel",

"clear_name" : "LPG_Gas_Station",

"icon" : "gas-station.png", "icon" : "gas-station.png",
'icon_color' : 'placemark-pink',
'brand' : 'false',
'brand_name' : '',
'second_key' : 'fuel:lpg',
'second_tag' : 'yes' : "gas-station.png",

More:

https://wiki.openstreetmap.org/wiki/DE:Tourismus

Credits

• To build a running EXE from python source, I'm using the pyinstaller from https://pyinstaller.org/en/stable/

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Author: Nicolas Mollet

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Data privacy

- By design XML structures as KML reach out for external servers.
- Using icons make the KML interpreter (as Oruxmaps) reaching out to my server via http://motorradtouren.de/pics (or wherever you decided to host the icons!)
- No access data is collected or stored for this service by this program or on the server motorradtouren.de.

Most common icons I use for Oruxmaps

Here some common Waypoints as they are used by Basecamp (left column) and a possible conversion to KML.

```
"points": {
        "remark" : "---- Section has no function -----",
        "Default": "pin-export.png",
        "Airport": "airport.png",
        "ATV": "atv.png",
        "Bar": "bar.png",
        "Beach": "beach icon.png",
        "Big Game": "deer.png",
        "Bike Trail": "cycling.png",
        "Building": "house.png",
        "Bunker": "bunker.png",
        "Campground": "campground.png",
        "Church": "church.png",
        "Circle, Green": "grass.png",
        "Circle with X": "comment-map-icon.png",
        "City (Small)": "star-3.png",
        "Controlled Area": "accesdenied.png",
        "Crossing": "junction.png",
        "Danger Area": "attention.png",
        "Department Store": "departmentstore.png",
        "Drinking Water": "drinkingwater.png",
        "Fast Food": "coffee.png",
        "Ferry": "cruiseship.png",
        "Flag, Blue": "flag-export.png",
        "Gas Station": "gas-station.png",
        "Heliport": "helicopter.png",
        "Information": "information.png",
        "Live Theater": "theater.png",
        "Lodge": "hotel_0star.png",
        "Lodging": "lodging.png",
        "Military": "military.png",
        "Museum": "museum_archeological.png",
        "Navaid, Black": "letter n.png",
        "Navaid, Green": "grass.png",
        "Navaid, Orange": "symbol_excla.png",
        "Parking Area": "parkinggarage.png",
        "Police Station": "police.png",
        "Private Field": "world.png",
        "Puzzle Cache": "orienteering.png",
        "Railway": "train.png",
        "Residence": "home.png",
        "Restaurant": "restaurant.png",
        "RV Park": "campingcar.png",
        "Scenic Area": "panoramicview.png",
        "Shopping Center": "conveniencestore.png",
```

```
"Skull and Crossbones": "skull.png",
    "Soft Field": "smiley_happy.png",
    "Summit": "hill.png",
    "Swimming Area": "swimming.png",
    "Toll Booth": "tollstation.png",
    "TracBack Point": "footprint.png",
    "Trail Head": "hiking.png",
    "Tree Stand": "kanzeldach.png",
    "Truck": "truck.png",
    "Ultralight Area": "aircraftsmall.png",
    "Wreck": "shipwreck.png"
```

More icons placed on motorradtouren.de/pins:

Lodging:

Apartment.svg Camping-16.svg Hostel-16.svg Hotel-16.svg Motel-16.svg guest_house.svg Caravan-16.svg Alpinehut.svg

Others:

Fuel.svg

Points / Pins for OrganicMaps

The Organic.Maps implementation of KML does not use graphics as available in Garmin. The following icons are the ones I am aware of:

Standards from Organic.Maps / Maps.Me:

placemark-red

placemark-blue placemark-purple placemark-yellow placemark-pink placemark-brown placemark-green placemark-orange placemark-deeppurple placemark-lightblue placemark-cyan

placemark-lime placemark-deeporange

placemark-teal

placemark-gray placemark-bluegray

Garmin Waypoints

This are the waypoints I'm aware so far:

Airport Contact, Big Ears Hunting Restroom Alert Contact, Biker Kayak **RV** Park **Amusement Park** Scales Contact, Bug Letter A, Red Anchor Letter B, Red Scenic Area Contact, Cat **Animal Tracks** School Contact, Dog Letter C, Red ATV Contact, Dreadlocks Letter D, Red Shelter **Ball Park** Contact, Female1 Lighthouse Shipwreck Bank Contact, Female2 Marina **Shopping Center** Bar Contact, Female3 Man Overboard **Short Tower** Beach Contact, Goatee Medical Facility Shower Bell Contact, Kung-Fu Mine Ski Resort Big Game Contact, Pig **Movie Theater** Skiing Area Bike Trail Contact, Pirate Museum **Skull and Crossbones Binoculars** Contact, Ranger Navaid, Amber Small Game Blind Contact, Smiley Navaid, Black Snowmobile Block, Blue Contact, Spike Navaid, Blue Square, Yellow Block, Green Contact, Sumo Navaid, Green Stadium Block, Red Contact, Female3 Navaid, Orange Stop Sign **Blood Trail** Controlled Area Navaid, Red Street Intersection **Boat Ramp** Convenience Store Navaid, Violet Summit **Bowling** Cover Navaid, White **Swimming Area** Bridge Covey Number 1, Blue **Tall Tower** Building Crossing Number, Blue Telephone Toll Booth Buoy, White Dam Number, Blue Campground Danger Area Number 4, Blue Trail Head Camp Fire **Department Store** Oil Field Tree Canoe Diver Down Flag Parachute Area Tree Stand Car **Drinking Water** Park **Treed Quarry** Car Rental Fast Food Parking Area Triangle, Blue Car Repair Fishing Area **Pharmacy** Triangle, Green Cemetery **Fishing Hot Spot** Picnic Area Triangle, Red **Facility** Church Pin, Blue Triangle, Yellow **Fitness Center** Circle with X Pin, Green Truck Flag, Blue Circle, Blue Pin. Red Truck Stop Flag, Green Pin, Yellow Tunnel Circle, Green Flag, Red Circle, Red Pizza Ultralight Area **Food Source Police Station Upland Game** City (Large) **Forest** Post Office Waterfowl City (Medium) **Furbearer** City (Small) Private Field **Water Source Gas Station** Civil Radio Beacon Wind Turbine Glider Area Contact. Afro Residence Wrecker

Restaurant

Restricted Area

XSki

Zoo

Golf Course

Horse Trail

Contact, Alien

Contact, Ball Cap

Symbol Name	Description
Airport	Represents an airport or airfield
Amusement Park	Represents an amusement park
Anchor	Anchor icon for marine use
Ball Park	Ballpark or sports field
Bank	Bank or financial institution
Bar	Bar or pub
Beach	Beach area
Bike Trail	Bicycle trail or route
Boat Ramp	Boat launch or ramp
Bridge	Bridge or overpass
Building	Generic building
Campground	Camping or campground area
Car	Car icon for parking or auto-related points
Circle with Dot	Generic waypoint
City (Capitol)	Capitol city icon
City (Large)	Large city icon
City (Medium)	Medium city icon
City (Small)	Small city icon
Controlled Area	Restricted or controlled access area
Convenience Store	Convenience store
Dam	Dam or reservoir
Danger Area	Dangerous or hazardous area
Drinking Water	Drinking water source
Fishing Area	Fishing hotspot
Flag	Flag, often used for marking locations
Forest	Forest or wooded area
Gas Station	Fuel station
Geocache	Geocaching symbol
Glider Area	Glider or hang-gliding area
Golf Course	Golf course or area
Home	Home location
Hospital	Hospital or medical facility
House	Generic house icon
Information	Information center or resource
Lodging	Hotel, motel, or lodging
Marina	Marina for boats
Mountain	Mountain or peak
Museum	Museum or cultural site
Park	Park or recreational area
Parking Area	Designated parking area
Picnic Area	Picnic area
Post Office	Post office
Restaurant	Restaurant or dining location
Restroom	Restroom or washroom
RV Park	Recreational vehicle park

Symbol Name	Description	
Scenic Area	Scenic viewpoint	
School School	School or educational institution	
Shopping Center	Shopping area	
Shower	Shower facility	
Ski Area	Ski resort or area	
Swimming Area	Swimming or beach area	
Toilet	Public restroom or toilet	
Trailhead	Trail starting point	
Train Station	Train station	
Tunnel	Tunnel or underpass	
Waypoint	Generic waypoint symbol	
Water Source	Water source (spring, fountain, etc.)	
Zoo	Zoo or animal park	