



# ELEVATE MAP KEY

Current version:

5.1, 07/06/22 (changelog)

last update of the map key: **07/06/22**

## VARIANTS:

There are two different variants of the map styles contained in the downloads respectively:

### Elevate

I developed Elevate for mountain hiking in the alps. At first it was based on the standard hike and cycle map style of Openandromaps, but has been completely revised since. I added additional variants by and by for other uses, by user requests.

Everything should be self-explanatory without a key, as far as it's possible with the possibilities of mapsforge. Therefore I based it on the presentation on paper maps and

guideposts in German and Austrian areas. Unified symbols and colors are used. At higher zoom levels names of amenities and areas are shown. As many things which are relevant for hiking and travelling as possible are shown without coming too much to the front or eliminating one another - e.g. big symbols or captions - therefore some symbols and captions are shown at high zoom levels only.

With Elevate 3 overlays were introduced which make it possible to switch certain elements on or off. Those can be chosen, as well as the map styles, directly within the app.

Elevate has been tested and developed with current versions of Cruiser and OruxMaps.

## Elements

Elements is a modification of Elevate and is made for **sparsely populated/mapped areas or countries**, mostly backcountry usage, e.g. the outback of Australia, Iceland outside of the cities etc.

Elements contains the same map styles and details as Elevate. Only **all content is shown as soon as it is contained in the map**.

Therefore the colored dots at low zoom levels aren't necessary.

**In densely mapped areas this variation is not recommended, in those it is slow and unclear.**

With **Elevate 5** Elements can help to find specific things in the map - just activate only

the overlay which you want to view and not the others (e.g. "Amenities" if you are looking for drinking water) and then all appropriate symbols are shown as soon as possible.

## MAP STYLES & OPTIONS:

Elevate and Elements contain several map styles and options which **can be chosen within the app** (how this works depends on the app). The map style differ from each other in their purpose and in what can be displayed. Every map style has a different default selection of options which are selected, and for every map style different options are possible.

Essential to the rendering of the map style is how footpaths/cycleways/MTB trails are displayed - always optimized for chosen the activity, e.g. hiking/MTB difficulty is shown in the respective map styles.

### Hiking

Key aspect is to have good overview for all features which are relevant for **mountain hiking** and perceptibility of paths and track, especially their difficulty and character (or if there isn't any information about that). Cycleways which are allowed for pedestrians look similar to footways. As "Hiking" is the basis for the other map style characteristics like the display of landscape features are included in those.

## City

This is a **light version** which is especially useful in cities, for example for sightseeing or for everyday life.

Neither hiking nor cycling routes are shown. The highly emphasized footways and paths of "Hiking" are discreet and difficulty and visibility is not marked. Cycleways which are allowed for pedestrians look similar to footways.

Additionally for better overview at lower zoom landscape and protected area names and colored dots are missing. Therefore this variation is most suitable for finding names of settlements.

A public transport network can be overlayed.

## Cycling

As this is a cycling version instead of hiking routes **cycling routes** are shown strongly. The highly emphasized footways and paths of "Hiking" are slimmer and difficulty and visibility isn't marked. Cycleways are strongly emphasized and surface information is shown if it's in the map data. Ways where cycling isn't allowed are marked with a turquoise cross hatch.

## Mountainbike

Based on "Cycling" this map style shows MTB difficulty levels on tracks and paths, visibility of paths and MTB routes.

## Options

With options different things can be switched on and off. Since Elevate 4.5 certain letters are put in front as categories: [A] for areas; [P] for POIs (points of interest); [R] for routes; [W] for ways.

# MAP KEY:

## Captions

- Black are peaks.
- Red are alpine huts.
- Grey, dark green and brown are landscape names.
- Green with white outlines are protected areas.

Other colors of captions are those of the assigned symbols.

## Symbols

I hope that the symbols are mostly self-explanatory. Additionally, you can find an overview image of all symbols including their names by opening the image linked below. This image is also included in the PDF map key available above.



The colors depend on categories, which are identical with the POI options (since Elevate 4.5):

Dark blue:  
settlement  
names

Grey: landscape

features,  
barriers

Black: amenities

Light green:  
sports

Pink: emergency

Light blue:  
accommodation

Brown:  
restaurants +  
bars

Violet: shops +  
services

Ochre: tourism +  
culture

Turquoise:  
public transport,  
car


Dark green:  
special  
buildings

Most symbols are appearing at zoom 14 or higher, some important points of interest are marked earlier by colored dots:

(Hiking/Cycling)

 Alpine hut

 Camp site

 Hospital

**Public transport stations**

Public transport stations are marked by colored dots:

• Bus stop (large: bus station)

• Tram

• Subway

• Railway

• Ferry

## Paths and Footways



**Brown - unpaved path/footway** (or path without surface information) without difficulty information



**Grey - paved path/footway** (or footway without surface information) without difficulty information, on the top one cycling is also allowed (only in hiking mapstyle)

## Hiking paths

(Hiking)

Path difficulty uses the SAC hiking scale, however the colors here are according to those used in the eastern alps.

Additionally trail visibility (if it's available in the data) is marked by how the paths are dashed.





**Yellow - Hiking:** flat or slightly sloped, no fall hazard, SAC T1;  
in the example without information about trail visibility (if this information is missing is only shown on paths with difficulty information): long dash, short dash, short spaces



**Blue - Mountain hiking:** partially steep, fall hazard possible, SAC T2;  
in the example trail visibility is excellent or good: very long dash, short spaces



**Red - Demanding mountain hiking:** not always visible, may be secured, hands may be needed, partly exposed with fall hazard, SAC T3;  
in the example trail visibility is intermediate: medium length dashes and spaces



**Black - (Difficult/demanding)**  
**Alpine hiking/Via Ferrata:** no trail, very exposed, climbing, glaciers etc., SAC T4-T6;



**only with adequate experience, inform yourself about it before you go;**



in the example trail visibility is bad, horrible or no visibility: short dashes, long spaces  
 additionally T5 paths dashes are broken vertically, T6 vertically and horizontal

## Safety measures

On some paths fixed safety measures are included in the maps:



A cable, chain or rope to hold on to; here the grey dots on the path mark the length of the area with safety ropes



Rungs, stemples, pins



A ladder

## Via ferratas

Via ferratas are marked with thick grey bars

and a green via ferrata symbol. Depending on how the data is mapped they can have two different styles:



Mapped as via ferrata



Mapped as a path (including hiking difficulty)

## Hiking routes

(Hiking)

Hiking routes are rendered below paths and tracks starting at zoom level 14, till level 13 transparent above them.

International hiking routes are blue.

National hiking routes are red.

Regional hiking routes are green.

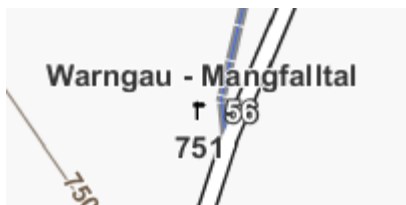
Local and other hiking routes are yellow.



In this example an international hiking route in blue called VAA49 and a regional hiking route in green with the number 211 can be seen.



**Waymarks** can be overlayed as an option, like the Jacobs mussel or the "E4" here; in lower zoom levels only a small symbol with the background color is shown. If a waycolor is given, it is marked along the trail with colored dots.



If waymarks is activated, **guideposts** are shown a bit earlier, and, if available, their reference number is shown right of the symbol in white with brown border.

## Cycling routes

(Cycling/Mountainbike)

Cycling routes are rendered below streets starting at zoom level 14, till level 13 transparent above them.

International cycling routes are **blue**

National cycling routes are **red**

Regional cycling routes are **violet**

Local cycling routes are **turquoise**

(Inter-)national and regional mountain bike routes are **green**

Local and other mountain bike routes are **yellow**



In this example an international cycling route in blue that goes from south-west to north, besides a regional route in violet.

## Mountain bike difficulty levels

(Mountainbike)

Mountain bike difficulty levels are shown according to the MTB Scale, you can find all details there.

Additionally trail visibility (if it's available in the data) is marked by how the paths are dashed.



**S0:** Blue bars on ways: no special driving skills required. In this example you can see how it is shown on tracks.



**S1:** Blue-red bars on ways: basic driving skills required, obstacles can be passed over; in the example without information about trail visibility



**S2:** Red bars on ways: advanced driving skills required; in the example trail visibility is excellent



**S3:** Red-black bars on ways: very good bike control required; in the example trail visibility is good or intermediate



**S4:** Black bars on ways: at least perfect bike control with trial skills required; in the example trail visibility is bad, horrible or no visibility



**S5/S6: Several thin black bars on ways:** excellent mastering of special trail techniques required or nearly completely impassable;  
in the example without information about trail visibility

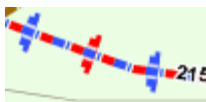


**Easy hiking path:** Yellow bars alternate with brown bars: if MTB scale isn't available it is possible to mark easy hiking paths (according to SAC T1, see above) with an overlay. If and how those are rideable isn't for sure, and if it is allowed to ride them depends on local legislation.

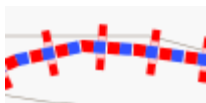
**MTB Scale uphill** is marked by horizontal dashes under ways:



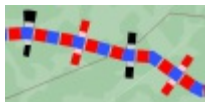
**0: Blue dashes:** 15% incline max.



**1: Blue-red dashes:** 20% incline max, the two bars with different length also mark the uphill direction - the shorter one points uphill.



**2: Red dashes:** 25% incline max.



**3: Red-black dashes:** 30% incline max



**4: Black dashes:** 40% incline max



**5: Two thin black dashes:** uphill riding not possible.

## Tracks

Forest tracks and agricultural roads are marked in Openstreetmap by grade:



Paved track



Unpaved track, gravel road



Track made out of a mixture of gravel and dirt



Track mainly made out of dirt/grass, some gravel



Track only made out of dirt/grass



Track without grade

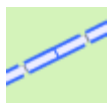




Bridleway

## Cycleways and road surfaces

If a normal road (not tracks/paths) or cycleway (when using cycling/mountainbike) has a different surface than asphalt or another flat sealed surface it is marked as following, if the "surface" is included:



Cycleways have a **blue border**. This only means that cycling is allowed here. If the border is a continous line, the way is paved, dashed means unpaved or unknown. The picture shows an emphasized cycleway in the cycling map style without surface information, which is marked by thin stripes along the way.



Cycleway which might need a cross-country bicycle because of steepness/roughness (only in cycling mapstyle, not MTB)



paved/asphalt



paving stones or similar



cobblestone or similar



compacted unsealed road



loose gravel



natural ground



Option "extended road surfaces":  
paved/asphalt (on major roads  
white alternating with color of  
road importance, on normal  
roads just white)



Option "extended road surfaces":  
no road surface information  
available



Option "emphasized paved cycle  
paths" (Cycling)



Option "emphasized paved  
footways" (City)

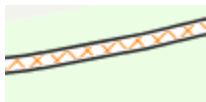
## Access limits

Only those access limits are shown, which are valid for the mode of transportation the map style is intended for. In "Hiking" only if they are valid for pedestrians. In

"Cycling"/"Mountainbike" only, if they are valid for cyclists. In "City" only general access limits.



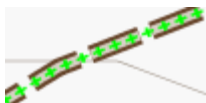
Local traffic only - only when travelling to this area.



Private road - only with permission of the owner.



No access allowed.



Option marking of permitted foot/cycle paths: usage permitted - important for countries like England, where e.g. a track can only legally be used if it's permitted for this track



toll road, marked by red dots



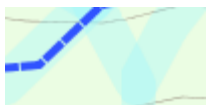
only use with permit (might be with costs), marked by green dots



Pedestrian area or wide footways (possibly also cycling), if cycling is prohibited it's shown as above

## Winter sports

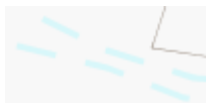
To avoid collisions or not so nice areas ski and sled pistes are marked unobstrusively:



Ski piste (with hiking path)



Sled piste (on track)



cross-country ski-tracks

## Landscape



Fell/Mountain meadow



Heath/dwarf-shrub



Wetlands/Marsh



Rock



Scree, loose rocks



Scrub



Wood, forest mixed



Wood, forest coniferous



Wood, forest deciduous



Glacier



Meadow, grass



Farmland



Orchard



Vineyard



Body of water



Intermittent body of water  
(sometimes water, sometimes dry)



Military



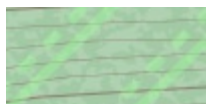
Protected area



Strictly protected area with  
strictly limited access



Protected area, seasonal strictly limited access



Protected area, discouraged access (might be seasonal)



Protected area, no off-road access (might be seasonal)



Aboriginal lands



Cliff, rock face



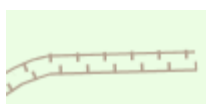
Ridge, arete



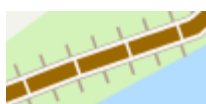
Earth Bank



Gully



Ditch



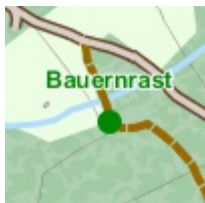
Dyke



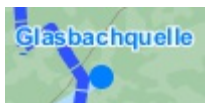
Cut/Hollow way



Embankment



Prominent Tree



Spring



Powerline/Minor powerline



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Tobias Kühn

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Elevate map key - symbols:

 Adit disused	 Adit	 Aerialway station	 Airport	 Alpine hut low zoom	 Alpine hut private	 Alpine hut winter	 Alpine hut	 Apartment	 Archaeological
 Artwork	 ATM	 Attraction	 Bakery	 Bank	 Bar	 Beach resort	 Bench	 Beverages	 Bicycle charging station
 Bicycle rental	 Bicycle repair station	 Bicycle shop	 Biergarten	 Block	 Bollard	 Books	 Border control	 Boundary stone	 Bridge movable
 Buddhist	 Bunker disused	 Bunker	 Butcher	 Cable car	 Cafe	 Cairn	 Camp site low zoom	 Camp site	 Car shop
 Caravan site	 Castle	 Cave entrance	 Chair lift	 Chalet	 Chemist	 Church	 Cinema	 City major capital	 City minor capital
 City	 Cliff diving	 Cliff	 Climbing adventure	 Climbing	 Convenience	 Cross	 Cycle barrier	 Defibrillator	 Doctors
 Doityourself	 Drag lift	 Drinking water	 Elevator	 Embassy	 Emergency access point	 Emergency phone	 Farm shop	 Farmyard	 Fastfood
 Firebrigade	 Ford low zoom	 Ford	 Fountain	 Free flying	 Fuel	 Gate private	 Gate	 Geyser	 Golf
 Gondola	 Goods lift	 Guidepost	 Gym	 Helipad	 Hindu	 Hospital low zoom	 Hospital	 Hostel	 Hot spring
 Hotel	 Hunting stand	 Ice cream	 Info board	 Info office	 Info terminal	 Kindergarten	 Kissing gate	 Ladder	 Laundry
 Library	 Lift gate	 Lighthouse	 Log	 Mall	 Market place	 Memorial plaque	 Memorial statue	 Memorial Stolperstein	 Memorial stone
 Memorial war	 Memorial	 Miniature golf	 Monument	 Mosque	 Museum	 One-way cycle	 One-way	 Organic	 Parking fee
 Parking private	 Parking	 Peak cross	 Peak low zoom	 Peak	 Petroleum well	 Pharmacy	 Picnic site	 Place of worship	 Playground private
 Playground	 Police	 Postbox	 Postoffice	 Power coal	 Power gas	 Power nuclear	 Power water	 Power wind	 PT bus station
 PT bus	 PT ferry	 PT rail low zoom	 PT rail	 PT subway	 PT tram	 Pub	 Public bookcase	 Rail funicular	 Railway crossing small
 Railway crossing	 Rapids	 Recycling	 Restaurant	 Ridge	 Roller skating	 Ruins	 Rungs	 Saddle	 Safety rope
 School	 Shelter basic hut	 Shelter picnic	 Shelter rock	 Shelter	 Shinto	 Shooting	 Skateboard	 Slipway	 Soccer
 Sports shop	 Stadium	 Stile	 Stone historic	 Stone	 Supermarket	 Swimming area	 Swimming	 Synagogue	 Telephone
 Tennis	 Theatre	 Toilet fee	 Toilets	 Tower communication	 Tower observation	 Townhall	 Traffic signal	 Travel agency	 Turnstile
 University	 Via ferrata	 Viewpoint	 Volcano low zoom	 Volcano	 Wastewater plant	 Water park	 Water well	 Water works	 Waterfall
 Watermill	 Wayside cross	 Wayside shrine	 Weir	 Wilderness hut private	 Wilderness hut	 Windmill	 Windpump	 Zoo	