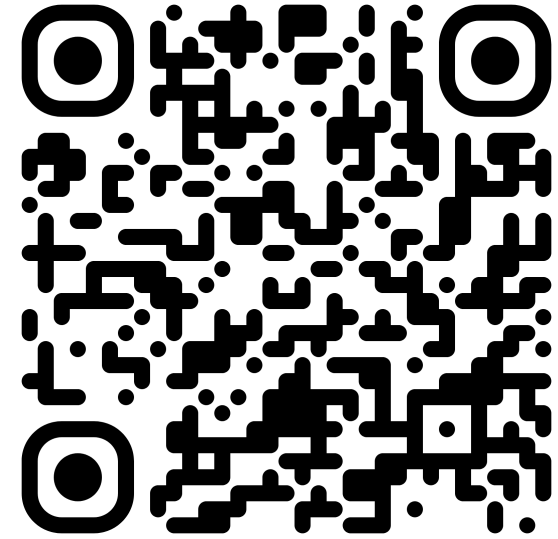


Livability-Score



Demo: <https://govtech-hackathon.vercel.app/>
Repo: <https://govtech-hackathon.vercel.app/>

The screenshot displays the 'Regions of Interest' web application. The main map shows a circular region of interest centered on Zurich, Switzerland. The sidebar on the left contains the following sections:

- REGIONS OF INTEREST**: A button to 'Begin'.
- SELECTED FACTORS**: A radar chart showing the relative importance of seven factors: Population density, PT access, Road quality, Road network, Road traffic, Road time, and green area. The chart is a blue pentagon shape.
- NAME**: A text input field containing 'Zürichfen'.
- FIT FOR YOUR PREFERENCES**: A score of 34 / 100.
- Why this score?**: A section with a 'COLOR' dropdown set to 'Blue' and a 'SEARCH RADIUS' slider set to 1.0 km.

The main panel on the right contains the following sections:

- Livability score**: A button to 'Open Tinder mode'.
- How good is the match?**: A 'Balanced' score.
- Fit for your preferences**: A weighted mean of factor scoring functions (0-100, higher = better) with a 'Transparency' slider set to 70%.
- NEARBY AMENITIES**: A section for 'Nearby Amenities'.
- FACTORS & PREFERENCES**: A section with 'Sortable defaults' and 'Default all' buttons.
- Transparency**: A slider set to 40%.
- Population density**: A slider set to 20%.
- PT accessibility**: A slider set to 50%.
- Road accessibility**: A slider set to 10%.

At the bottom of the map, there is a search bar with the text 'Search for an address in Switzerland...'.

Back to map

Preference onboarding

Rate three representative Swiss places to personalise your preferences.

Place 3 of 10



Lugano (TI)
Mid-size southern city with mixed urban and landscape qualities.

Factor values at this place

Switzerland, population 16,000, 10 minutes



Factor	Value
Tranquillity	4.477 on 20m²
Population density	7.000 SW
PT accessibility	7.000 SW
Road accessibility	7.000 SW
PT quality	4 stars
PT travel time	8 min
Road travel time	7 min
Night traffic	10.426 AADT
Road traffic	9.101 AADT
Landscape type	30 m
Solar potential	3 level
Swiss TLM: green areas & trees	0.24 index

Would you like to live here?

☒ Definitely not

☐ No

☐ Not sure

☒ Yes

☐ For sure

Selection automatically jumps to the next place.

Back

REGIONS OF INTEREST

SELECTED FACTORS

Raw values per region, normalized to p5-p95 (0 = worse, 100 = better) — before the trapezoid curve.

Tranquility

Population density

PT access

Road a

PT quality

PT travel time

Road travel time

Rail traffic

oad traffic

be type

r potential

green areas & trees

● Zurich ● Switzerland

NAME

Zurich

FIT FOR YOUR PREFERENCES 82 / 100

Why this score? 82/ 100

COLOR

SEARCH RADIUS 1.0 km

100 m 3 km

NAME

Switzerland

FIT FOR YOUR PREFERENCES 35 / 100

Why this score? 35/ 100

COLOR

SEARCH RADIUS 1.0 km

100 m 3 km

Bern, Switzerland

Nearby Amenities

REGIONS OF INTEREST

+ Region

SELECTED FACTORS

Raw values per region, normalized to p5-p95 (0 = worse, 100 = better) — before the trapezoid curve.

Tranquility

Population density

PT access

Road a

PT quality

PT travel time

Road travel time

Rail traffic

Road traffic

se type

potential

green areas & trees

Zurich

Bern

NAME

Zurich

FIT FOR YOUR PREFERENCES

69 / 100

Why this score?

69 / 100

COLOR

SEARCH RADIUS

1.0 km

100 m

3 km

SHOPPING

41

HEALTH

42

PHARMACY

21

CULTURE

14

HOSPITAL

2

NAME

Bern

FIT FOR YOUR PREFERENCES

64 / 100

Why this score?

64 / 100

DE

FR

IT

EN

REC

Livability score

Open Tinder mode

LIFESTYLE PRESET

Balanced

Soft scoring curves for an explorable overview map.

FIT FOR YOUR PREFERENCES

Weighted mean of factor scoring functions (0-100, higher = better for your housing search).

Map: 0 - 100 (worse - better)

Transparency

70%

NEARBY AMENITIES

How important are nearby amenities for your quality of life?

Nearby Shopping (24)

3/5

Nearby Health Services (18)

2/5

Nearby Pharmacy (13)

2/5

Nearby Culture (15)

2/5

Nearby Hospital (2)

1/5

FACTORS & PREFERENCES

Sensible defaults

Deselect all

Trapezoid curve per factor: plateau = 100 points. Importance drives the overall score and overview map.

Tranquility

FOEN noise sensitivity map (tranquility quality)

Importance

3/5

Reset factor

Hide advanced settings

Dealbreaker (zero outside range)

0.00 index

0.50 index

1.00 ind

← 0.00 index (worse) - 1.00 index (better) →

Upper handles: move left/right horizontally and vertically. Lower handles: adjust falloff width.

Population density

FSO STATPOP, inhabitants per km² (100 m grid)

Search for an address in Switzerland...

[illegible]