swissAR

THE HITCHHIKER'S GUIDE TO SWITZERLAND

what? (1)

- HTML 5 webpage
- A-Frame 1.0.4
- AR.js 3
- open data elevation model
- open data toponymy database
- open data postcode database

what? (2)

- ▶ launch camera
- ▶ retrieve geolocation data
- ▶ retrieve compass heading
- ▶ access and process motion sensor data
- ▶ calculate height above sea level
- ▶ calculate POI within a given range
- ▶ display POI
- ⚡ DOES NOT STORE ANY DATA

compass with heading in °

- compass with heading in °
- current height above sea level

- compass with heading in °
- user height above sea level
- color code

- compass with heading in °
- user height above sea level
- color code
- place, hilltop, site names

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- Ortschaften
- Anhöhen
- Kulturdenkmäler

Schloss Tschüpru 6.8 km 783 m ü. M.

Hübeli 5.5 km 807 m ü. M.

Giffers 5.5 km 740 m ü. M.

bertswilhubel 4.7 km 774 m ü. M.

Schloss Tentlingen

Tentlingen 725

Pierrafort

2.1 km 697 m ü. M.

N
W 163 E
S

688 m ü. M.

- compass with heading in °
- user height above sea level
- color code
- place, hilltop, site names
- air-line distance

- compass with heading in °

- user height above sea level

- color code

- place, hilltop, site names

- air-line distance

- height above sea level

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- Ortschaften
- Anhöhen
- Kulturdenkmäler

Schloss Tschüpru 6.8 km
783 m ü. M.

Hübeli 5.5 km
807 m ü. M.

Giffers 5.5 km
740 m ü. M.

bertswilhubel 4.7 km
7?4 m ü. M.

Schloss Tentlinge

Tentlingen 2.2
725

Pierrafort

2.1 km
697 m ü. M.

N
W 163 E
S
688 m ü. M.

- compass with heading in °
- user height above sea level
- color code
- place, hilltop, site names
- air-line distance
- height above sea level
- lift cam button

- compass with heading in °
- user height above sea level
- color code
- place, hilltop, site names
- air-line distance
- height above sea level
- lift cam button
- lower cam button

- compass with heading in °
- user height above sea level
- color code
- place, hilltop, site names
- air-line distance
- height above sea level
- lift cam button
- lower cam button
- recalibrate button

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- Ortschaften
- Anhöhen
- Kulturdenkmäler

Schloss Tschüpru 6.8 km
783 m ü. M.

Hübeli 5.5 km
807 m ü. M.

Giffers 5.5 km
740 m ü. M.

pertswilhubel 4.7 km
77... ü. M.

loss Tentling...
Tentlingen

Pierrafort

2.1 km
697 m ü. M.

N
W 163 E
S
688 m ü. M.

- compass with heading in °
- user height above sea level
- color code
- place, hilltop, site names
- air-line distance
- height above sea level
- lift cam button
- lower cam button
- recalibrate button
- cam height indicator

thomasweibel.ch/swissar

how-to
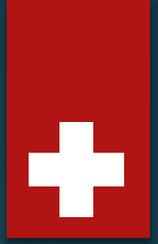
- launch your camera app
- point your smartphone to qr code
- hold your smartphone upright
- confirm website access
- confirm camera access
- confirm geolocation access
- confirm motion sensor access (2x)
- keep still during calibration

parameters

thomasweibel.ch/swissar (Y)

thomasweibel.ch/swissar (N)

thomasweibel.ch/swissar?ort=Chur

thomasweibel.ch/swissar?plz=8001
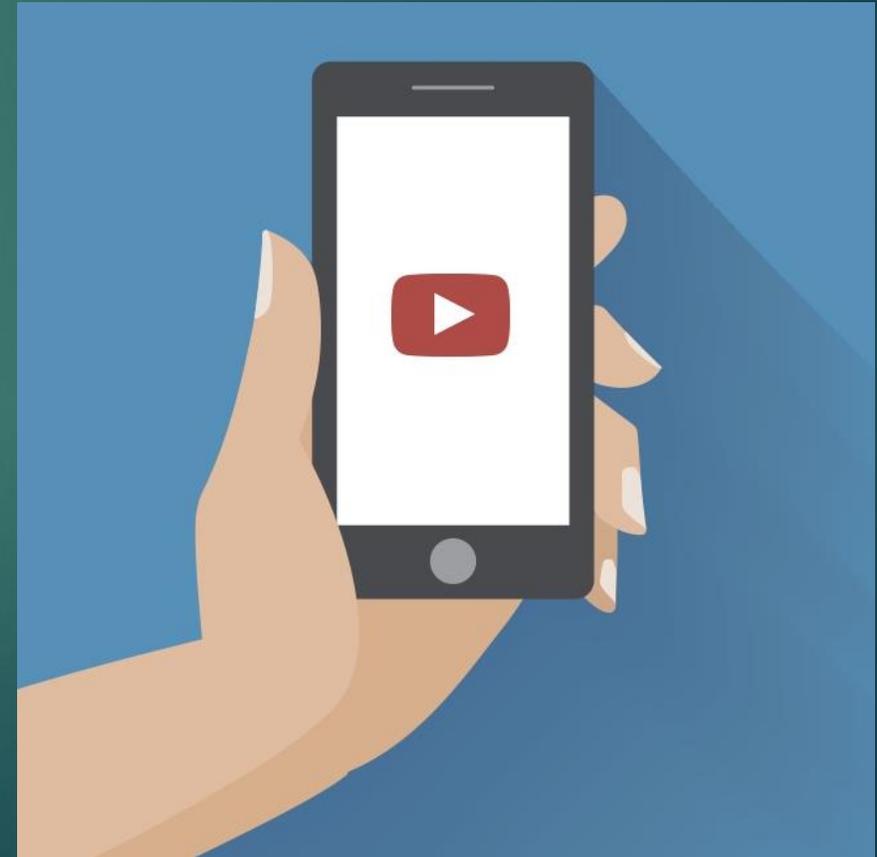
thomasweibel.ch/swissar?lon=637071&lat=1617

topics

- towns and villages
- peaks and hilltops
- cultural heritage sites
- churches and monasteries
- rivers and lakes
- bus and railway stations
- cable cars
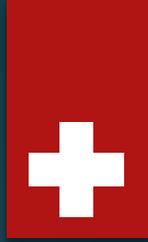- shipping piers
- industrial sites
- sports facilities

conclusion

- 👎 UI constraints
- 👎 downscaling, clipping
- 👎 interaction, UX
- 👎 recalibration

- 👍 easy, quick, cheap
- 👍 nice experiment
- 👍 more info: hack.glam.opendata.ch/project/4