

# Google Earth Engine Autorisierung

Folgende Kurzanleitung beschreibt, wie Earth Engine autorisiert werden kann.

**ACHTUNG:** Ein existierendes Konto mit Google (wie es auch für die Nutzung von GMail oder Maps erforderlich ist) wird hierfür benötigt. Hier kann ein kostenloses [Google Konto eingerichtet werden](#).

## In geo wechseln

*Anaconda Prompt* öffnen und folgendes eingeben:

```
conda activate geo
```

Nun sollte (*geo*) vor dem Pfad angezeigt werden.

## Autorisierung einmalig speichern

```
earthengine authenticate
```

Dann bitte den Google-Anweisungen folgen ...

```
In [1]: import ee

# Initialize the Earth Engine module.
ee.Initialize()
```

Bei diesem Code-Block sollte keine Fehlermeldung auftauchen!

```
In [2]: # Print metadata for a DEM dataset.
print(ee.Image('USGS/SRTMGL1_003').getInfo())
```

```
{'type': 'Image', 'bands': [{'id': 'elevation', 'data_type': {'type': 'PixelType',
'precision': 'int', 'min': -32768, 'max': 32767}, 'dimensions': [1296001, 417601],
'crs': 'EPSG:4326', 'crs_transform': [0.0002777777777777778, 0, -180.0001388888889,
0, -0.0002777777777777778, 60.00013888888889]}], 'id': 'USGS/SRTMGL1_003', 'version':
1605362602494378, 'properties': {'system:visualization_0_min': '0.0', 'type_name':
'Image', 'thumb': 'https://mw1.google.com/ges/dd/images/SRTM90_V4_thumb.png', 'description':
'<p>The Shuttle Radar Topography Mission (SRTM, see <a href="http://onlinelibrary.wiley.com/doi/10.1029/2005RG000183/full">Farr\et al. 2007</a>)\ndigital
elevation data is an international research effort that\nobtained digital elevation
models on a near-global scale. This\nSRTM V3 product (SRTM Plus) is provided by NASA
JPL\nat a resolution of 1 arc-second (approximately 30m).\n</p><p>This dataset has und
ergone a void-filling process using open-source data\n(ASTER GDEM2, GMTED2010, and N
ED), as opposed to other versions that\ncontain voids or have been void-filled with
commercial sources.\nFor more information on the different versions see the\n<a href="https://lpdaac.usgs.gov/documents/13/SRTM_Quick_Guide.pdf">SRTM Quick Guide</a>.\n</p><p>Documentation:</p><ul><li><p><a href="https://lpdaac.usgs.gov/documents/179/SRTM_User_Guide_V3.pdf">User&#39;s Guide</a></p></li><li><p><a href="https://lpdaac.usgs.gov/documents/13/SRTM_Quick_Guide.pdf">General Documentation</a></p></li><li><p><a href="https://doi.org/10.1029/2005RG000183">Algorithm Theoretical Basis Document (ATBD)</a></p></li></ul><p><b>Bands</b></p><table class="eecat"><tr><th scope="col">Name</th><th scope="col">Description</th></tr><tr><td>elevation</td><td><p>Elevation</p></td></tr></table><p><b>Terms of Use</b><br><p>Unless otherwise noted, images and video on JPL public web sites (public sites ending with a jpl.nasa.gov address) may be used for any purpose without prior permission. For more information and exceptions visit the <a href="https://www.jpl.nasa.gov/imagepolicy/">JPL Image Use Policy site</a>.
```

</p><p><b>Suggested citation(s)</b><ul><li><p>Farr, T.G., Rosen, P.A., Caro, E., Crippen, R., Duren, R., Hensley, S., Kobrick, M., Paller, M., Rodriguez, E., Roth, L., Seal, D., Shaffer, S., Shimada, J., Umland, J., Werner, M., Oskin, M., Burbank, D., and Alsdorf, D.E., 2007, The shuttle radar topography mission: Reviews of Geophysics, v. 45, no. 2, RG2004, at <a href="https://doi.org/10.1029/2005RG000183">https://doi.org/10.1029/2005RG000183</a>.</p></li></ul><style>\n table.eecat {\n border: 1px solid black;\n border-collapse: collapse;\n font-size: 13px;\n }\n table.eecat td, tr, th {\n text-align: left; vertical-align: top;\n border: 1px solid gray; padding: 3px;\n }\n td.nobreak { white-space: nowrap; }\n</style>', 'source\_tags': ['nasa', 'usgs'], 'visualization\_0\_max': '6000.0', 'title': 'NASA SRTM Digital Elevation 30m', 'product\_tags': ['srtm', 'elevation', 'topography', 'dem', 'geophysical'], 'provider': 'NASA / USGS / JPL-Caltech', 'visualization\_0\_min': '0.0', 'visualization\_0\_name': 'Elevation', 'date\_range': [950227200000, 951177600000], 'system:visualization\_0\_gamma': '1.6', 'period': 0, 'system:visualization\_0\_bands': 'elevation', 'provider\_url': 'https://cmr.earthdata.nasa.gov/search/concepts/C1000000240-LPDA AC\_ECS.html', 'visualization\_0\_gamma': '1.6', 'sample': 'https://mw1.google.com/ges/dd/images/SRTM90\_V4\_sample.png', 'tags': ['nasa', 'usgs', 'srtm', 'elevation', 'topography', 'dem', 'geophysical'], 'system:visualization\_0\_max': '6000.0', 'system:visualization\_0\_name': 'Elevation', 'system:asset\_size': 132792638252, 'visualization\_0\_bands': 'elevation'}}

HINWEIS: Siehe auch [hier](#)