

# 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](#).

## Autorisierung einmalig ausführen

Folgendes ausführen, und dann bitte allen Google-Anweisungen folgen ...

```
In [1]: import ee
```

```
In [ ]: # authenticate the Earth Engine module
ee.Authenticate()
```

## Autorisierung überprüfen

Dann überprüfen, dass alles funktioniert

```
In [2]: import ee

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

Bei diesem Code-Block sollte keine Fehlermeldung auftauchen!

```
In [3]: # Print metadata for a DEM dataset.
print(ee.Image('USGS/SRTMGL1_003').getInfo())
```

```
{'type': 'Image', 'bands': [{'id': 'elevation', 'data_type': {'type': 'PixelType',
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0, -0.0002777777777777778, 60.00013888888889]}], 'id': 'USGS/SRTMGL1_003', 'version
': 1641990767055141, 'properties': {'system:visualization_0_min': '0.0', 'type_name
': 'Image', 'keywords': ['dem', 'elevation', 'geophysical', 'nasa', 'srtm', 'topogr
aphy', 'usgs'], 'thumb': 'https://mw1.google.com/ges/dd/images/SRTM90_V4_thumb.png
', 'description': '<p>The Shuttle Radar Topography Mission (SRTM, see <a href="http
s://onlinelibrary.wiley.com/doi/10.1029/2005RG000183/full">Farr\et al. 2007</a>)\n
digital elevation data is an international research effort that\nobtained digital e
levation models on a near-global scale. This\nSRTM V3 product (SRTM Plus) is provid
ed by NASA JPL\nat a resolution of 1 arc-second (approximately 30m).\n</p><p>This dat
aset has undergone a void-filling process using open-source data\n(ASTER GDEM2, GMT
ED2010, and NED), as opposed to other versions that\ncontain voids or have been voi
d-filled with commercial sources.\nFor more information on the different versions s
ee the\n<a href="https://lpdaac.usgs.gov/documents/13/SRTM_Quick_Guide.pdf">SRTM Qu
ick Guide</a>.\n</p><p>Documentation:</p><ul><li><p><a href="https://lpdaac.usgs.gov/
documents/179/SRTM_User_Guide_V3.pdf">User'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 Theoretic
al Basis Document (ATBD)</a></p></li></ul><p><b>Provider: <a href="https://cmr.eart
hdata.nasa.gov/search/concepts/C1000000240-LPDAAC_ECS.html">NASA / USGS / JPL-Calte
ch</a></b><br><p><b>Bands</b><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\nweb sites (public sites ending with a jpl.nasa.gov address) may\nbe use
d for any purpose without prior permission. For more information\nand exceptions vi
sit the <a href="https://www.jpl.nasa.gov/imagepolicy/">JPL Image Use Policy site</
a>.\n</p><p><b>Suggested citation(s)</b><ul><li><p>Farr, T.G., Rosen, P.A., Caro, E.,
Crippen, R., Duren, R., Hensley,\nS., Kobrick, M., Paller, M., Rodriguez, E., Roth,
L., Seal, D.,\nShaffer, S., Shimada, J., Umland, J., Werner, M., Oskin, M., Burban
k,\nD., and Alsdorf, D.E., 2007, The shuttle radar topography mission:\nReviews of
Geophysics, v. 45, no. 2, RG2004, at\n<a href="https://doi.org/10.1029/2005RG00018
3">https://doi.org/10.1029/2005RG000183</a>.\n</p></li></ul><style>\n table.eecat {\n
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', 'geophysical'], 'provider': 'NASA / USGS / JPL-Caltech', 'visualization_0_min':
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C1000000240-LPDAAC_ECS.html', 'visualization_0_gamma': '1.6', 'sample': 'https://mw
1.google.com/ges/dd/images/SRTM90_V4_sample.png', 'tags': ['dem', 'elevation', 'geo
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2, 'visualization_0_bands': 'elevation'}}
```

*HINWEIS:* Siehe auch [hier](#)