

# Class Work

Student ID: s1300056

Student Name: SUZUKI Haruto

## Command 1

```
In [1]: !pip install s1300056_learn
```

```
Collecting s1300056_learn
  Downloading s1300056_learn-2024.7.29.1-py3-none-any.whl.metadata (562 bytes)
Collecting pami (from s1300056_learn)
  Downloading pami-2024.7.2-py3-none-any.whl.metadata (80 kB)
  80.3/80.3 kB 2.0 MB/s eta 0:00:00
Collecting statistics (from s1300056_learn)
  Downloading statistics-1.0.3.5.tar.gz (8.3 kB)
  Preparing metadata (setup.py) ... done
Collecting visualization (from s1300056_learn)
  Downloading visualization-1.0.0-py3-none-any.whl.metadata (1.1 kB)
Requirement already satisfied: psutil in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (5.9.5)
Requirement already satisfied: pandas in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (2.0.3)
Requirement already satisfied: plotly in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (5.15.0)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (3.7.1)
Collecting resource (from pami->s1300056_learn)
  Downloading Resource-0.2.1-py2.py3-none-any.whl.metadata (478 bytes)
Collecting validators (from pami->s1300056_learn)
  Downloading validators-0.33.0-py3-none-any.whl.metadata (3.8 kB)
Requirement already satisfied: urllib3 in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (2.0.7)
Requirement already satisfied: Pillow in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (9.4.0)
Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (1.25.2)
Requirement already satisfied: sphinx in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (5.0.2)
Collecting sphinx-rtd-theme (from pami->s1300056_learn)
  Downloading sphinx_rtd_theme-2.0.0-py2.py3-none-any.whl.metadata (4.4 kB)
Collecting discord.py (from pami->s1300056_learn)
  Downloading discord.py-2.4.0-py3-none-any.whl.metadata (6.9 kB)
Requirement already satisfied: networkx in /usr/local/lib/python3.10/dist-packages (from pami->s1300056_learn) (3.3)
Collecting deprecated (from pami->s1300056_learn)
  Downloading Deprecated-1.2.14-py2.py3-none-any.whl.metadata (5.4 kB)
Requirement already satisfied: docutils>=0.3 in /usr/local/lib/python3.10/dist-packages (from statistics->s1300056_learn) (0.18.1)
Requirement already satisfied: imageio in /usr/local/lib/python3.10/dist-packages (from visualization->s1300056_learn) (2.34.2)
Collecting trimesh[easy] (from visualization->s1300056_learn)
  Downloading trimesh-4.4.3-py3-none-any.whl.metadata (18 kB)
Collecting autolab-core (from visualization->s1300056_learn)
```

Downloading autolab-core-1.1.1-py3-none-any.whl.metadata (1.6 kB)  
Collecting pyrender (from visualization->s1300056\_learn)  
Downloading pyrender-0.1.45-py3-none-any.whl.metadata (1.5 kB)  
Requirement already satisfied: scipy in /usr/local/lib/python3.10/dist-packages (from autolab-core->visualization->s1300056\_learn) (1.13.1)  
Requirement already satisfied: scikit-image in /usr/local/lib/python3.10/dist-packages (from autolab-core->visualization->s1300056\_learn) (0.23.2)  
Requirement already satisfied: scikit-learn in /usr/local/lib/python3.10/dist-packages (from autolab-core->visualization->s1300056\_learn) (1.3.2)  
Collecting ruamel.yaml (from autolab-core->visualization->s1300056\_learn)  
Downloading ruamel.yaml-0.18.6-py3-none-any.whl.metadata (23 kB)  
Collecting multiprocessing (from autolab-core->visualization->s1300056\_learn)  
Downloading multiprocessing-0.70.16-py310-none-any.whl.metadata (7.2 kB)  
Collecting setproctitle (from autolab-core->visualization->s1300056\_learn)  
Downloading setproctitle-1.3.3-cp310-cp310-manylinux\_2\_5\_x86\_64.manylinux1\_x86\_64.manylinux2014\_x86\_64.whl.metadata (9.9 kB)  
Requirement already satisfied: opencv-python in /usr/local/lib/python3.10/dist-packages (from autolab-core->visualization->s1300056\_learn) (4.10.0.84)  
Requirement already satisfied: joblib in /usr/local/lib/python3.10/dist-packages (from autolab-core->visualization->s1300056\_learn) (1.4.2)  
Collecting colorlog (from autolab-core->visualization->s1300056\_learn)  
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Requirement already satisfied: wrapt<2,>=1.10 in /usr/local/lib/python3.10/dist-packages (from deprecated->pami->s1300056\_learn) (1.14.1)  
Requirement already satisfied: aiohttp<4,>=3.7.4 in /usr/local/lib/python3.10/dist-packages (from discord.py->pami->s1300056\_learn) (3.9.5)  
Requirement already satisfied: contourpy>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib->pami->s1300056\_learn) (1.2.1)  
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.10/dist-packages (from matplotlib->pami->s1300056\_learn) (0.12.1)  
Requirement already satisfied: fonttools>=4.22.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib->pami->s1300056\_learn) (4.53.1)  
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib->pami->s1300056\_learn) (1.4.5)  
Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from matplotlib->pami->s1300056\_learn) (24.1)  
Requirement already satisfied: pyparsing>=2.3.1 in /usr/local/lib/python3.10/dist-packages (from matplotlib->pami->s1300056\_learn) (3.1.2)  
Requirement already satisfied: python-dateutil>=2.7 in /usr/local/lib/python3.10/dist-packages (from matplotlib->pami->s1300056\_learn) (2.8.2)  
Requirement already satisfied: pytz>=2020.1 in /usr/local/lib/python3.10/dist-packages (from pandas->pami->s1300056\_learn) (2024.1)  
Requirement already satisfied: tzdata>=2022.1 in /usr/local/lib/python3.10/dist-packages (from pandas->pami->s1300056\_learn) (2024.1)  
Requirement already satisfied: tenacity>=6.2.0 in /usr/local/lib/python3.10/dist-packages (from plotly->pami->s1300056\_learn) (8.5.0)  
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Downloading freetype-py-2.4.0-py3-none-manylinux\_2\_5\_x86\_64.manylinux1\_x86\_64.manylinux2010\_x86\_64.whl.metadata (6.3 kB)  
Collecting pyglet>=1.4.10 (from pyrender->visualization->s1300056\_learn)  
Downloading pyglet-2.0.16-py3-none-any.whl.metadata (7.9 kB)  
Collecting PyOpenGL==3.1.0 (from pyrender->visualization->s1300056\_learn)  
Downloading PyOpenGL-3.1.0.zip (2.2 MB)  
2.2/2.2 MB 26.0 MB/s eta 0:00:00  
Preparing metadata (setup.py) ... done  
Requirement already satisfied: six in /usr/local/lib/python3.10/dist-packages (from pyrender->visualization->s1300056\_learn) (1.16.0)  
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Preparing metadata (setup.py) ... done  
Collecting JsonSir>=0.0.2 (from resource->pami->s1300056\_learn)  
Downloading JsonSir-0.0.2.tar.gz (2.2 kB)  
Preparing metadata (setup.py) ... done  
Collecting python-easyconfig>=0.1.0 (from resource->pami->s1300056\_learn)  
Downloading Python\_EasyConfig-0.1.7-py2.py3-none-any.whl.metadata (462 bytes)  
Requirement already satisfied: sphinxcontrib-applehelp in /usr/local/lib/python3.10/dist

-packages (from sphinx->pami->s1300056\_learn) (1.0.8)  
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Requirement already satisfied: Jinja2>=2.3 in /usr/local/lib/python3.10/dist-packages (from sphinx->pami->s1300056\_learn) (3.1.4)  
Requirement already satisfied: Pygments>=2.0 in /usr/local/lib/python3.10/dist-packages (from sphinx->pami->s1300056\_learn) (2.16.1)  
Requirement already satisfied: snowballstemmer>=1.1 in /usr/local/lib/python3.10/dist-packages (from sphinx->pami->s1300056\_learn) (2.2.0)  
Requirement already satisfied: babel>=1.3 in /usr/local/lib/python3.10/dist-packages (from sphinx->pami->s1300056\_learn) (2.15.0)  
Requirement already satisfied: alabaster<0.8,>=0.7 in /usr/local/lib/python3.10/dist-packages (from sphinx->pami->s1300056\_learn) (0.7.16)  
Requirement already satisfied: imagesize in /usr/local/lib/python3.10/dist-packages (from sphinx->pami->s1300056\_learn) (1.4.1)  
Requirement already satisfied: requests>=2.5.0 in /usr/local/lib/python3.10/dist-packages (from sphinx->pami->s1300056\_learn) (2.31.0)  
Collecting sphinxcontrib-jquery<5,>=4 (from sphinx-rtd-theme->pami->s1300056\_learn)  
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Collecting manifold3d>=2.3.0 (from trimesh[easy]->visualization->s1300056\_learn)  
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Requirement already satisfied: chardet in /usr/local/lib/python3.10/dist-packages (from trimesh[easy]->visualization->s1300056\_learn) (5.2.0)  
Requirement already satisfied: lxml in /usr/local/lib/python3.10/dist-packages (from trimesh[easy]->visualization->s1300056\_learn) (4.9.4)  
Requirement already satisfied: jsonschema in /usr/local/lib/python3.10/dist-packages (from trimesh[easy]->visualization->s1300056\_learn) (4.23.0)  
Collecting svg.path (from trimesh[easy]->visualization->s1300056\_learn)  
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 108.1/108.1 kB 9.6 MB/s eta 0:00:00  
 Preparing metadata (setup.py) ... done  
Requirement already satisfied: setuptools in /usr/local/lib/python3.10/dist-packages (from trimesh[easy]->visualization->s1300056\_learn) (71.0.4)  
Requirement already satisfied: shapely in /usr/local/lib/python3.10/dist-packages (from trimesh[easy]->visualization->s1300056\_learn) (2.0.5)  
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Collecting httpx (from trimesh[easy]->visualization->s1300056\_learn)  
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Collecting vhacd (from trimesh[easy]->visualization->s1300056\_learn)  
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Collecting embree (from trimesh[easy]->visualization->s1300056\_learn)  
 Downloading embree-2.17.7.post5-cp310-cp310-manylinux\_2\_28\_x86\_64.whl.metadata (2.9 kB)  
Requirement already satisfied: aiohttp>=1.1.2 in /usr/local/lib/python3.10/dist-packages (from aiohttp<4,>=3.7.4->discord.py->pami->s1300056\_learn) (1.3.1)  
Requirement already satisfied: attrs>=17.3.0 in /usr/local/lib/python3.10/dist-packages

(from aiohttp<4,>=3.7.4->discord.py->pami->s1300056\_learn) (23.2.0)  
Requirement already satisfied: frozenlist>=1.1.1 in /usr/local/lib/python3.10/dist-packages (from aiohttp<4,>=3.7.4->discord.py->pami->s1300056\_learn) (1.4.1)  
Requirement already satisfied: multidict<7.0,>=4.5 in /usr/local/lib/python3.10/dist-packages (from aiohttp<4,>=3.7.4->discord.py->pami->s1300056\_learn) (6.0.5)  
Requirement already satisfied: yarl<2.0,>=1.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp<4,>=3.7.4->discord.py->pami->s1300056\_learn) (1.9.4)  
Requirement already satisfied: async-timeout<5.0,>=4.0 in /usr/local/lib/python3.10/dist-packages (from aiohttp<4,>=3.7.4->discord.py->pami->s1300056\_learn) (4.0.3)  
Requirement already satisfied: MarkupSafe>=2.0 in /usr/local/lib/python3.10/dist-packages (from Jinja2>=2.3->sphinx->pami->s1300056\_learn) (2.1.5)  
Requirement already satisfied: PyYAML in /usr/local/lib/python3.10/dist-packages (from python-easyconfig>=0.1.0->resource->pami->s1300056\_learn) (6.0.1)  
Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests>=2.5.0->sphinx->pami->s1300056\_learn) (3.3.2)  
Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests>=2.5.0->sphinx->pami->s1300056\_learn) (3.7)  
Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests>=2.5.0->sphinx->pami->s1300056\_learn) (2024.7.4)  
Requirement already satisfied: anyio in /usr/local/lib/python3.10/dist-packages (from httpx->trimesh[easy]->visualization->s1300056\_learn) (3.7.1)  
Collecting httpcore==1.\* (from httpx->trimesh[easy]->visualization->s1300056\_learn)  
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Requirement already satisfied: sniffio in /usr/local/lib/python3.10/dist-packages (from httpx->trimesh[easy]->visualization->s1300056\_learn) (1.3.1)  
Collecting h11<0.15,>=0.13 (from httpcore==1.\*->httpx->trimesh[easy]->visualization->s1300056\_learn)  
 Downloading h11-0.14.0-py3-none-any.whl.metadata (8.2 kB)  
Requirement already satisfied: jsonschema-specifications>=2023.03.6 in /usr/local/lib/python3.10/dist-packages (from jsonschema->trimesh[easy]->visualization->s1300056\_learn) (2023.12.1)  
Requirement already satisfied: referencing>=0.28.4 in /usr/local/lib/python3.10/dist-packages (from jsonschema->trimesh[easy]->visualization->s1300056\_learn) (0.35.1)  
Requirement already satisfied: rpds-py>=0.7.1 in /usr/local/lib/python3.10/dist-packages (from jsonschema->trimesh[easy]->visualization->s1300056\_learn) (0.19.0)  
Collecting dill>=0.3.8 (from multiprocessing->autolab-core->visualization->s1300056\_learn)  
 Downloading dill-0.3.8-py3-none-any.whl.metadata (10 kB)  
Collecting ruamel.yaml.clib>=0.2.7 (from ruamel.yaml->autolab-core->visualization->s1300056\_learn)  
 Downloading ruamel.yaml.clib-0.2.8-cp310-cp310-manylinux\_2\_17\_x86\_64.manylinux2014\_x86\_64.manylinux\_2\_24\_x86\_64.whl.metadata (2.2 kB)  
Requirement already satisfied: tiffiff>=2022.8.12 in /usr/local/lib/python3.10/dist-packages (from scikit-image->autolab-core->visualization->s1300056\_learn) (2024.7.21)  
Requirement already satisfied: lazy-loader>=0.4 in /usr/local/lib/python3.10/dist-packages (from scikit-image->autolab-core->visualization->s1300056\_learn) (0.4)  
Requirement already satisfied: threadpoolctl>=2.0.0 in /usr/local/lib/python3.10/dist-packages (from scikit-learn->autolab-core->visualization->s1300056\_learn) (3.5.0)  
Requirement already satisfied: exceptiongroup in /usr/local/lib/python3.10/dist-packages (from anyio->httpx->trimesh[easy]->visualization->s1300056\_learn) (1.2.2)  
Downloading s1300056\_learn-2024.7.29.1-py3-none-any.whl (1.3 kB)  
Downloading pami-2024.7.2-py3-none-any.whl (1.1 MB)  
 1.1/1.1 MB 52.0 MB/s eta 0:00:00  
Downloading visualization-1.0.0-py3-none-any.whl (13 kB)  
Downloading autolab\_core-1.1.1-py3-none-any.whl (116 kB)  
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Downloading Deprecated-1.2.14-py2.py3-none-any.whl (9.6 kB)  
Downloading discord.py-2.4.0-py3-none-any.whl (1.1 MB)  
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Downloading validators-0.33.0-py3-none-any.whl (43 kB)  
 43.3/43.3 kB 3.3 MB/s eta 0:00:00  
Downloading manifold3d-2.5.1-cp310-cp310-manylinux\_2\_27\_x86\_64.manylinux\_2\_28\_x86\_64.whl



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Downloaded 1.2/1.2 MB 52.4 MB/s eta 0:00:00
Downloading pyglet-2.0.16-py3-none-any.whl (929 kB)
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Downloading Python_EasyConfig-0.1.7-py2.py3-none-any.whl (5.4 kB)
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Downloading freetype_py-2.4.0-py3-none-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_12_x86_64.manylinux2010_x86_64.whl (1.0 MB)
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Downloading httpx-0.27.0-py3-none-any.whl (75 kB)
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Downloading httpcore-1.0.5-py3-none-any.whl (77 kB)
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Downloading multiprocessing-0.70.16-py310-none-any.whl (134 kB)
Downloaded 134.8/134.8 kB 11.8 MB/s eta 0:00:00
Downloading Rtree-1.3.0-py3-none-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (543 kB)
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Downloading ruamel.yaml-0.18.6-py3-none-any.whl (117 kB)
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Downloading xxhash-3.4.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (194 kB)
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Downloading dill-0.3.8-py3-none-any.whl (116 kB)
Downloaded 116.3/116.3 kB 8.8 MB/s eta 0:00:00
Downloading ruamel.yaml.clib-0.2.8-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.manylinux_2_24_x86_64.whl (526 kB)
Downloaded 526.7/526.7 kB 34.2 MB/s eta 0:00:00
Downloading h11-0.14.0-py3-none-any.whl (58 kB)
Downloaded 58.3/58.3 kB 4.6 MB/s eta 0:00:00
Building wheels for collected packages: statistics, PyOpenGL, JsonForm, JsonSir, pycollada
  Building wheel for statistics (setup.py) ... done
  Created wheel for statistics: filename=statistics-1.0.3.5-py3-none-any.whl size=7437 sha256=3a45be2f3ef042f2e3ed76b5e29be4f4d9e21624e148c87116992b519ab419c4
  Stored in directory: /root/.cache/pip/wheels/59/bd/aa/41ad56fbb723d36e457b5be74feb992cdac2855a6999ba34a1
  Building wheel for PyOpenGL (setup.py) ... done
  Created wheel for PyOpenGL: filename=PyOpenGL-3.1.0-py3-none-any.whl size=1745194 sha256=d163773f46730cdf13dc94a38548fbc6a335201500f2c7d15a613e2853125324
  Stored in directory: /root/.cache/pip/wheels/a1/3c/d2/1f9533f908d86176637521e533c6cdb2d4e48b59003b5c3f19
  Building wheel for JsonForm (setup.py) ... done
  Created wheel for JsonForm: filename=JsonForm-0.0.2-py3-none-any.whl size=3311 sha256=1c3f488fbbb7db0273362a8541225de6006710d8978c158c9ec1d3bd1d233248
  Stored in directory: /root/.cache/pip/wheels/b6/e5/87/11026246d3bd4ad67c0615682d2d6748bbd9a40ac0490882bd
  Building wheel for JsonSir (setup.py) ... done
  Created wheel for JsonSir: filename=JsonSir-0.0.2-py3-none-any.whl size=4752 sha256=b877382ef8f938fe8d20ddfc2025cc99f79d563b2f09e7c63e6dd4206def87
  Stored in directory: /root/.cache/pip/wheels/1d/4c/d3/4d9757425983b43eb709be1043d82cd03fb863ce5f56f117e6
```

```
Building wheel for pycollada (setup.py) ... done
Created wheel for pycollada: filename=pycollada-0.8-py3-none-any.whl size=127517 sha256=cf08f63d3867022b1d075e022b8f1354c5ac6273eb3b6874d5c341d5a37be94b
Stored in directory: /root/.cache/pip/wheels/11/92/79/6e8add42e1e207a97d435169cdc705e0a5dd6fb182f4368f3d
Successfully built statistics PyOpenGL JsonForm JsonSir pycollada
Installing collected packages: PyOpenGL, JsonSir, xxhash, xatlas, vhacdx, validators, trimesh, svg.path, statistics, setproctitle, ruamel.yaml.clib, rtree, python-easyconfig, pyglet, manifold3d, h11, freetype-py, embreex, dill, deprecated, colorlog, ruamel.yaml, pyrender, pycollada, multiprocessing, httpcore, sphinxcontrib-jquery, httpx, discord.py, autolab-core, sphinx-rtd-theme, JsonForm, visualization, resource, pami, s1300056_learn
Attempting uninstall: PyOpenGL
Found existing installation: PyOpenGL 3.1.7
Uninstalling PyOpenGL-3.1.7:
Successfully uninstalled PyOpenGL-3.1.7
Successfully installed JsonForm-0.0.2 JsonSir-0.0.2 PyOpenGL-3.1.0 autolab-core-1.1.1 colorlog-6.8.2 deprecated-1.2.14 dill-0.3.8 discord.py-2.4.0 embreex-2.17.7.post5 freetype-py-2.4.0 h11-0.14.0 httpcore-1.0.5 httpx-0.27.0 manifold3d-2.5.1 multiprocessing-0.70.16 pami-2024.7.2 pycollada-0.8 pyglet-2.0.16 pyrender-0.1.45 python-easyconfig-0.1.7 resource-0.2.1 rtree-1.3.0 ruamel.yaml-0.18.6 ruamel.yaml.clib-0.2.8 s1300056_learn-2024.7.29.1 setproctitle-1.3.3 sphinx-rtd-theme-2.0.0 sphinxcontrib-jquery-4.1 statistics-1.0.3.5 svg.path-6.3 trimesh-4.4.3 validators-0.33.0 vhacdx-0.0.8.post1 visualization-1.0.0 xatlas-0.0.9 xxhash-3.4.1
```

## Command 2

```
In [2]: !pip show s1300056_learn
```

```
Name: s1300056-learn
Version: 2024.7.29.1
Summary: This is description
Home-page: https://github.com/YATTAmanre/s1300056_learn
Author: SUZUKI Haruto
Author-email: s1300056@u-aizu.ac.jp
License: GPLv3
Location: /usr/local/lib/python3.10/dist-packages
Requires: pami, statistics, visualization
Required-by:
```

## GitHub

## Hyper link