

Welcome to Termux!

Docs: <https://termux.dev/docs>

Donate: <https://termux.dev/donate>

Community: <https://termux.dev/community>

Working with packages:

- Search: `pkg search <query>`
- Install: `pkg install <package>`
- Upgrade: `pkg upgrade`

Subscribing to additional repositories:

- Root: `pkg install root-repo`
- X11: `pkg install x11-repo`

For fixing any repository issues,
try 'termux-change-repo' command.

Report issues at <https://termux.dev/issues>

```
~ $ pkg install python python-pip
```

Checking availability of current mirror:

```
[*] http://mirror.mephi.ru/termux/termux-main: ok
```

```
Hit:1 http://mirror.mephi.ru/termux/termux-main stable InRelease
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
7 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
python is already the newest version (3.12.12).
```

```
python-pip is already the newest version (25.3).
```

```
0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.
```

```
~ $ pip install numpy
```

```
Requirement already satisfied: numpy in /data/data/com.termux/files/usr/lib/python3.12/site-packages (2.2.5)
```

```
~ $ pkg install nano
```

Checking availability of current mirror:

```
[*] http://mirror.mephi.ru/termux/termux-main: ok
```

```
Reading package lists... Done
```

```
Building dependency tree... Done
```

```
Reading state information... Done
```

```
nano is already the newest version (8.7).
```

```
0 upgraded, 0 newly installed, 0 to remove and 7 not upgraded.
```

```
~ $ mkdir -p ~/TCDS_TEC_TCDs_001/scripts
```

```
~ $ mkdir -p ~/TCDS_TEC_TCDs_001/data
```

```

~ $ mkdir -p ~/TCDS_TEC_TCDS_001/results
~ $ cd ~/TCDS_TEC_TCDS_001/scripts
~/TCDS_TEC_TCDS_001/scripts $ nano test_sigma.py
~/TCDS_TEC_TCDS_001/scripts $ cd ~/TCDS_TEC_TCDS_001/scripts
~/TCDS_TEC_TCDS_001/scripts $ python test_sigma.py
File "/data/data/com.termux/files/home/TCDS_TEC_TCDS_001/scripts/test_sigma.py", line 3
    def test(): N_GRID = 200 tc_grid = np.linspace(0.0, 1.0, N_GRID)
                  ^^^^^^^
SyntaxError: invalid syntax
~/TCDS_TEC_TCDS_001/scripts $ nano sigma_demo_step1_generate_data.py
~/TCDS_TEC_TCDS_001/scripts $ python sigma_demo_step1_generate_data.py
✓ Datos sintéticos generados en: /data/data/com.termux/files/home/TCDS_TEC_TCDS_001/data
~/TCDS_TEC_TCDS_001/scripts $ cat ~/TCDS_TEC_TCDS_001/results/sigma_demo_eveto_report.json
cat: /data/data/com.termux/files/home/TCDS_TEC_TCDS_001/results/sigma_demo_eveto_report.json: No such file or directory
~/TCDS_TEC_TCDS_001/scripts $ python sigma_demo_step1_generate_data.py
✓ Datos sintéticos generados en: /data/data/com.termux/files/home/TCDS_TEC_TCDS_001/data
~/TCDS_TEC_TCDS_001/scripts $ cd ~/TCDS_TEC_TCDS_001/scripts
~/TCDS_TEC_TCDS_001/scripts $ python test_sigma.py
File "/data/data/com.termux/files/home/TCDS_TEC_TCDS_001/scripts/test_sigma.py", line 3
    def test(): N_GRID = 200 tc_grid = np.linspace(0.0, 1.0, N_GRID)
                  ^^^^^^^
SyntaxError: invalid syntax
~/TCDS_TEC_TCDS_001/scripts $ cd ~/TCDS_TEC_TCDS_001/scripts
~/TCDS_TEC_TCDS_001/scripts $ python test_sigma.py
File "/data/data/com.termux/files/home/TCDS_TEC_TCDS_001/scripts/test_sigma.py", line 3
    def test(): N_GRID = 200 tc_grid = np.linspace(0.0, 1.0, N_GRID)
                  ^^^^^^^
SyntaxError: invalid syntax
~/TCDS_TEC_TCDS_001/scripts $ nano test_sigma.py
~/TCDS_TEC_TCDS_001/scripts $ cd ~/TCDS_TEC_TCDS_001/scripts
~/TCDS_TEC_TCDS_001/scripts $ python test_sigma.py
tc_grid[0:5] = [0.      0.00502513 0.01005025 0.01507538 0.0201005 ]
~/TCDS_TEC_TCDS_001/scripts $ cd ~/TCDS_TEC_TCDS_001/scripts
~/TCDS_TEC_TCDS_001/scripts $ nano sigma_demo_step2_metrics.py
~/TCDS_TEC_TCDS_001/scripts $ cd ~/TCDS_TEC_TCDS_001/scripts
~/TCDS_TEC_TCDS_001/scripts $ python sigma_demo_step2_metrics.py
✓ Reporte guardado en: /data/data/com.termux/files/home/TCDS_TEC_TCDS_001/results/sigma_demo_eveto_report.json
ΔH = 0.0
~/TCDS_TEC_TCDS_001/scripts $ cat ~/TCDS_TEC_TCDS_001/results/sigma_demo_eveto_report.json

```

```

{
  "description": "Reporte  $\Sigma$ -metrics + E-Veto para datos sintéticos demo",
  "H_M": 3.553415091193861,
  "H_C": 3.553415091193861,
  "delta_H": 0.0,
  "sigma_metrics": {
    "global": {
      "LI": 0.02,
      "R_mean": 0.7367481940045921,
      "R_std": 0.03181870946157074,
      "RMSE_SL": 0.2988315254568602,
      "kappa_sigma": 9.854414227628954
    },
    "pre": {
      "LI": 0.18,
      "R_mean": 0.7472744120929762,
      "R_std": 0.0627088613865831,
      "RMSE_SL": 0.306698836121036,
      "kappa_sigma": 12.432860947230559
    },
    "near": {
      "LI": 0.0,
      "R_mean": 0.526211650428986,
      "R_std": 0.12665517845015442,
      "RMSE_SL": 0.29493578219486727,
      "kappa_sigma": 10.18515637707442
    },
    "mid": {
      "LI": 0.0,
      "R_mean": 0.12862686649642854,
      "R_std": 0.16922492804507863,
      "RMSE_SL": 0.2925939937093575,
      "kappa_sigma": 8.535565294789066
    }
  },
  "verdicts": {
    "global": {
      "strong_sigma": false,
      "low_entropy": false,
      "accept_Eveto": false
    },
    "pre": {
      "strong_sigma": false,
      "low_entropy": false,
      "accept_Eveto": false
    },
    "near": {
      "strong_sigma": false,

```

```
    "low_entropy": false,  
    "accept_Eveto": false  
  },  
  "mid": {  
    "strong_sigma": false,  
    "low_entropy": false,  
    "accept_Eveto": false  
  }  
}  
}~ /TCDS_TEC_TCDS_001/scripts $
```