

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/li
b/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_si
gma.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_TE
C_TCDS_001/data
~/TCDS_TEC_TCDS_001/scripts $ cat ~/TCDS_TEC_TCDS_001/results/sigma_demo_e
veto_report.json
cat: /data/data/com.termux/files/home/TCDS_TEC_TCDS_001/results/sigma_demo
_demo_evetoo_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_TE
C_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_si
gma.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_si
gma.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_evetoo_report.json
ΔH = 0.0
~/TCDS_TEC_TCDS_001/scripts $ cat ~/TCDS_TEC_TCDS_001/results/sigma_demo_e
veto_report.json
```

```
{  
  "description": "Reporte Σ-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  
    }  
  }  
}
```

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