

■■ Vollständige Buildozer & Kivy Garden Graph Setup-Anleitung (Stand 2025)

Ziel: Reproduzierbarer Android-Build unter Linux Mint / Colab mit funktionierendem SSL, Hostpython, Garden.Graph und Matplotlib.

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1■■ Systemvoraussetzungen (global installieren)

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```
sudo apt update
```

```
sudo apt install -y build-essential python3-dev git libssl-dev libffi-dev openssl pkg-config libbz2-dev  
libreadline-dev libsqlite3-dev libncurses5-dev libgdbm-dev zlib1g-dev liblzma-dev libjpeg-dev  
libfreetype6-dev libgl1-mesa-dev libgles2-mesa-dev gstreamer1.0-plugins-base  
libgstreamer1.0-dev libmtdev-dev
```

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2■■ Virtuelle Umgebung anlegen und aktivieren

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```
cd ~/vivosun-setup4
```

```
python3 -m venv venv
```

```
source venv/bin/activate
```

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3■■ Python-Pakete installieren

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```
pip install --upgrade pip setuptools wheel
```

```
pip install kivy matplotlib
```

Garden Graph manuell klonen (funktionierende Version)

```
git clone https://github.com/kivy-garden/garden.graph.git ~/.kivy/garden/garden.graph
```

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4■■■ Test

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```
python -c "from kivy.garden.graph import Graph; print('■ Garden Graph aktiv!)"
```

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5 ■■ Bulldozer vorbereiten

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```
pip install buildozer
```

```
git clone https://github.com/kivy/python-for-android.git ~/python-for-android --depth=1
```

