




















main Go to file Code

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About

List connected displays with details and ASCII layout diagram

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Report repository

Releases

No releases published

Packages

No packages published

Contributors

No contributors

Languages



lsdisplay

List connected displays with details and ASCII layout diagram.

Like `lsusb`, `lspci`, `lscpu` — but for displays.

Features

- **EDID parsing** from `/sys/class/drm/*/edid`: manufacturer, model, serial number
- **Resolution, position, rotation** via `xrandr` (fallback: `kscreen-doctor`, `wlr-randr`)
- **ASCII art layout diagram** with correct proportions
- **JSON output** for scripting
- Works on X11 and Wayland (KDE, Sway, etc.)
- No external dependencies, Python 3.6+

Installation

```
# System-wide
sudo cp lsdisplay.py /usr/local/bin/lsdisplay
sudo chmod +x /usr/local/bin/lsdisplay
```



```
# Or user-local
cp lsdisplay.py ~/.local/bin/lsdisplay
chmod +x ~/.local/bin/lsdisplay
```

Usage

```
lsdisplay          # Full output with layout
lsdisplay --short  # Compact one-line-per-di
lsdisplay --json   # JSON output for scripti
lsdisplay --no-layout # Skip the ASCII art diagi
lsdisplay --version # Show version
```



Example output

```
CONNECTED DISPLAYS
=====

  HDMI-A-2      1440x2560+1441+0      27"  75Hz
  DP-4          1440x2560+0+0              27"  75Hz
  HDMI-A-5      5376x3024+0+2561          65"  60Hz

Total: 3 display(s) connected

LAYOUT
=====

+-----+ +-----+
|      DP-4*      | |      HDMI-A-2      |
|      |          | |      |          |
+-----+ +-----+

+-----+
|      HDMI-A-5      |
|      |          |
+-----+
```



Requirements

- Python 3.6+
- Linux with `/sys/class/drm` (any modern kernel)
- `xrandr` (X11) or `kscreen-doctor` (KDE Wayland) or `wlr-randr` (wlroots Wayland)

How it works

1. Scans `/sys/class/drm/card*/edid` for raw EDID data
2. Parses EDID to extract PNP manufacturer ID, monitor name, serial number
3. Maps PNP IDs to human-readable names (Samsung, Dell, Iiyama, etc.)
4. Uses `xrandr` output for resolution, position, rotation
5. Draws ASCII art layout proportional to actual pixel dimensions

License

GPL-2.0. See [LICENSE](#) for the full text.