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#!/bin/sh

# gwall - create and set a grid wallpaper
# usage: gwall color1 color2 <step-size> <image-resolution>
#
# you shouldn't really set image-resolution, but do what your heart tells you to
# due to ImageMagick's command-line argument limit, max step size is something less
# than 50
#
# deps: ImageMagick, hsetroot
#
# krzysckh 2021

us() {
    echo "usage: $0 color1 color2 <step> <res>"
    exit
}

res="24"
c1="$1"
c2="$2"

[ -z "$c1" ] && us
[ -z "$c2" ] && us
[ -z "$3" ] && step="2" || step="$3"
[ -z "$4" ] && res=$((step*10)) || res="$4"

res=$((res*2))

x=0
y=0
push=0
lines=""

while [ "$y" -lt "$res" ]
do
    if [ "$push" -eq 0 ]
    then
        x=0
    else
        x="$step"
    fi

    while [ "$x" -lt "$res" ]
    do
        lines="$lines line $x,$y $((x+step-1)),$y"
        x=$((x+step+step))
    done

    y=$((y+1))

    if [ "$((y % step))" -eq 0 ]
    then
        if [ "$push" -eq 0 ]
        then
            push=1
        else
            push=0
        fi
    fi
done

convert -size "${res}"x"${res}" xc:"${c1}" -stroke "${c2}" -draw "${lines}" /tmp/wal
l.png
hsetroot -tile /tmp/wall.png > /dev/null
```