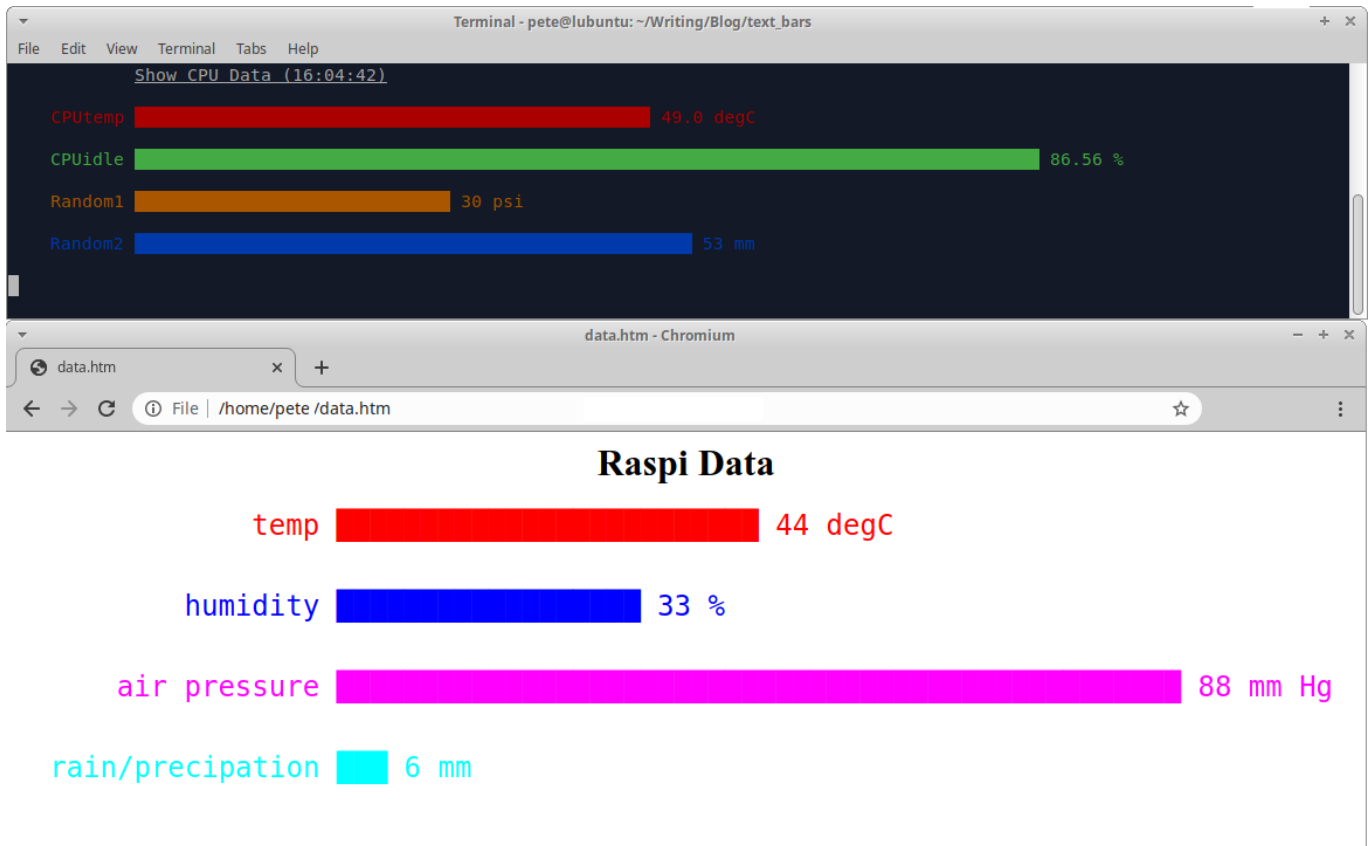


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HBars Bash Grafik Script 1

HBars Bash Grafik Script

Hbars adalah script yang dapat menghasilkan grafik



```
#!/bin/bash
#
# hbars.sh - show some text bars
# pass data as: label1,value1,unit1,color1; label2,value2,unit2,colour2;
#
width=50
title=""
color=7
pretty=False
web=False
font=24

usage() {
  echo "usage: hbars [data] [option] "
  echo " -h --help      print this usage and exit"
  echo " -c --color     set color to all bars (default 7=white)"
  echo "                (0=grey,1-
red,2=green,3=yellow,4=blue,5=magenta,6=cyan,7=white)"
  echo " -p --pretty    add different colors to bars (-c overrides)"
  echo " -t --title     top title"
  echo " -w --width     max width of bar (default 50)"
}
```

```
echo " -W --Web      make output HTML formatted"
echo " -f --fontsize fontsize for web output (default 24)"
echo ""
echo " examples:"
echo "   echo 'temp,33,C;pressure,14,psi' | ./hbars -t Weather -p -w 40 "
echo "   ./hbars -t Weather -p -w 40 'temp,33;pressure,14' "
echo "   cat data.txt | ./hbars -W -f 24 -t 'Raspi Data' > data.htm"
echo ""

exit 0
}
# Show help usage if no pipe data and no cmd line data
if [ -t 0 ] && [ $# -eq 0 ] ; then
  usage
fi
# Check for command line options
while getopts "hpc:t:w:Wf:" arg; do
  case "$arg" in
    h) usage ;;
    c) color=$OPTARG ;;
    p) pretty=True; icolor=0 ;;
    t) title=$OPTARG ;;
    w) width=$OPTARG ;;
    W) web=True;;
    f) font=$OPTARG ;;
  esac
done
#-----
# Setup formatting for text, Web and color
# -----
if [[ ${color} != 7 && ${pretty} = True ]]; then
  pretty=False
fi
colidx=0

setcolors() {
if [ $web = True ]; then
  colors=(gray red green yellow blue magenta cyan white)
  titlebold="echo '<h1>'"
  titlereset="echo '</h1>'"
  #color_set='echo "<span style=font-size:${font}px >" '
  #color_set="printf '<span style=\"font-size:${font}px;color:${colors[colidx]}\>' "
  color_set="printf '<pre><span style=\"color:${colors[colidx]} ; font-size:${font}px \>' "
  color_rs="echo '</span></pre>'"
else
  colors=(0 1 2 3 4 5 6 7 )
  titlebold="tput bold; tput smul"
  titlereset="tput rmul; tput rmso"
  color_set="tput setaf ${colors[colidx]}"
fi
}
```

```
    color_rs="tput rmso"
fi
}
setcolors
#-----
# Get data, check if stdin, file, if not assume string
#-----
if [ -p /dev/stdin ]; then
    lastarg=$(< /dev/stdin)
else
    lastarg=$(echo "${@: -1}")
    if test -f "$lastarg"; then
        lastarg=$(<$lastarg)
    fi
fi
# Cleanup the input data
lastarg=$(echo $lastarg | sed 's/\n//g; s/ / /g; s/\t//g; s/;/;/g')
IFS=';' read -r -a array <<< $lastarg

# ensure that there is some data
if [[ ${array} == 0 ]]; then
    echo "No data found"
    exit 0
fi
echo "input:$lastarg"
#exit 0
#-----
# Get max value and max label length
#-----
maxval=0
maxlbl=10
#echo "array:${array[@]}"
for element in "${array[@]}"
do
    IFS=',' read -r -a datapt <<< $element
    if (( $(echo "$maxval < ${datapt[1]}" |bc -l) )); then
        maxval=${datapt[1]}
    fi
    if (( $(echo "$maxlbl < ${#datapt[0]}" |bc -l) )); then
        maxlbl=${#datapt[0]}
    fi
done
#-----
# Print Title - use bold/underline
#-----
if [[ ! -z $title ]]; then
    printf "\n %${maxlbl}s " " "
    eval $titlebold
    printf "%s" "$title" ; printf "\n\n"
    eval $titlereset
fi
```

```
#-----
# Cycle thru data and build bar chart
#-----
for element in "${array[@]}"
do
# check data values
IFS=', ' read -r -a datapt <<< $element
# check for empty records
if [ ${#datapt[0]} = 0 ]; then
    break
fi
label=${datapt[0]}
if [[ ${label} != "-t*" ]]; then
    val=${datapt[1]}
    sval=$(bc <<< "$width * $val / $maxval")

    # add color, use 4th item if available
    if [[ ${#datapt[@]} > 3 && $pretty = False ]]; then
        icolor=${datapt[3]}
    fi
    if [[ $pretty = True ]] ; then
        let colidx++
        if [ $colidx -gt 7 ]; then
            let colidx=1
        fi
    elif [[ ${#datapt[@]} > 3 ]]; then
        colidx=${datapt[3]}
    else
        colidx=$color
    fi
    setcolors
        eval $color_set
        printf " %${maxlbl}s " "$label"
    bar="printf '█%.0s' {1..$sval}"
    eval $bar;
# add value and units if available
    units=""
    if [[ ${#datapt[@]} > 2 ]]; then
        units=${datapt[2]}
    fi
    printf " %d %s\n\n" $val "$units"
    eval $color_rs
fi
done
```

Sumber : <https://funprojects.blog/2021/05/14/bash-bar-charts-for-text-and-web-pages/>

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