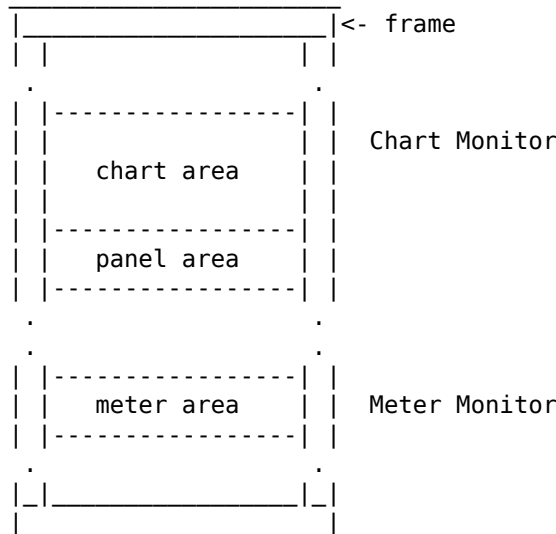


GKrellM Themes Reference

Intro

The GKrellM structure is a framed stack of monitors and there are two monitor types, Charts and Meters, which have background images applied to drawing areas. Charts have two drawing areas, the chart area and the panel area. Meters have one drawing area, the meter area. Most theme images and options are applied at this level and many can be specified to apply to a particular Chart or Meter monitor.



A theme is a directory containing theme images. A theme directory may be any of several locations:

```

~/.gkrellm2/themes/THEME_NAME/
/usr/local/share/gkrellm2/themes/THEME_NAME/
/usr/share/gkrellm2/themes/THEME_NAME/
/usr/share/themes/THEME_NAME/gkrellm2/
~/.themes/THEME_NAME/gkrellm2/
  
```

The last two locations require `gkrellm >= 2.1.16` and are compatible with `gtk2` theme locations. They are convenient for installation when making a meta theme including `gtk2`, `gkrellm2`, and possibly other themes. The `/usr/share/themes/` directory component may actually be something different depending on how `gtk2` was installed.

If a "**gkrellmrc**" file exists in a theme directory, it is parsed for theme specific settings such as borders, margins, colors, and krell parameters. The theme directory also has images for the frame, background images for each of the drawing areas, and detail images (decals and krells) which are drawn on panel and meter areas.

Terminology

Chart monitor - A monitor type which has two background areas - a chart area with a `bg_chart` image as a background, and a panel area with a `bg_panel` image as a background. Labels, decals, and krells are drawn in panel areas.

Meter monitor - A monitor type which has a single background area type - a meter area with a `bg_meter` image as a background. Labels, decals, and krells are also drawn in meter areas. A meter monitor may have multiple meter areas vertically stacked.

Decals are pixmap graphics or text elements such as LEDs, button images, toggling labels, etc. usually placed in fixed locations in panel or meter areas. These may have transparency and may overlap.

Krells are pixmap graphics which are programatically moved horizontally across the face of a panel or meter area. They implement meter indicator movements, moving animations, and slider controls. Krells may have transparency and they usually move over decals.

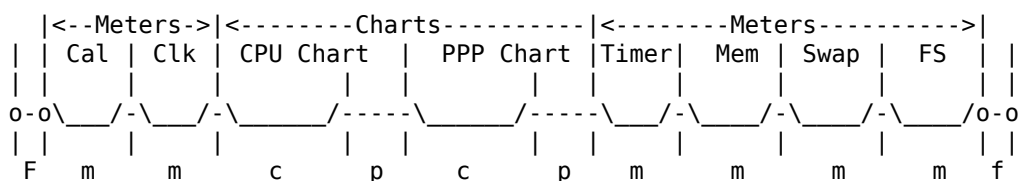
Image Structure

All theme images are either base level images which are in the toplevel of the theme directory, or monitor specific theme images which are placed in subdirectories of the toplevel. All base level images have a default which will be used if it is not provided in a theme.

Excluding detail and optional images (see below), here is the base set of images required for a theme change in GKrellM (.png used as an example).

```
F : frame_top.png
f : frame_bottom.png
  : frame_left.png
  : frame_right.png
c : bg_chart.png           a chart area background
p : bg_panel.png           a panel area background
m : bg_meter.png           a meter area background
  : bg_grid.png            a chart area background grid line
  : bg_separator.png        a chart area data view separator
```

This is a side section view showing how these images are used to build GKrellM. `frame_left/right` and `bg_grid` are not shown and not all monitors are shown.



The last row shows where background images are applied to the monitors.

Theme Image Names

The background areas, krells, or some monitor detail images can have a monitor specific custom image substituted for the base level default image. For a custom image to take effect, it only has to exist in the monitor specific subdirectory.

Here is a list showing the image naming structure in a theme directory.

Images may be .png as shown or .jpg or .xpm.

Base level images in the top level of the theme directory

```

frame_top.png
frame_bottom.png
frame_left.png
frame_right.png
-----
bg_chart.png
bg_grid.png
bg_separator.png
bg_panel.png
bg_meter.png
-----
button_panel_in.png
button_panel_out.png
button_meter_in.png
button_meter_out.png
-----
krell_panel.png
krell_meter.png
krell_slider.png
-----
decal_misc.png
decal_button.png
-----
    (optional images for plotting data)
data_in.png
data_in_grid.png
data_out.png
data_out_grid.png
-----
    (optional images separating monitors)
    (Spacer images in the top level dir is new in GKrellM 2.1.0 and 1.3.0)
spacer_top.png
spacer_bottom.png
spacer_top_chart.png
spacer_bottom_chart.png
spacer_top_meter.png
spacer_bottom_meter.png
-----
    (optional frame images aligned with the top and bottom of monitors)
    (These are new in GKrellM version 2.1.0 and 1.3.0)
cap_top_left_chart.png
cap_bottom_left_chart.png
cap_top_right_chart.png
cap_bottom_right_chart.png
cap_top_left_meter.png
cap_bottom_left_meter.png
cap_top_right_meter.png
cap_bottom_right_meter.png

```

Custom images in the theme subdirectories

Builtin Chart monitor theme subdirectories are:

cpu, disk, inet, net, proc

Builtin Meter monitor theme subdirectories are:

apm, cal, clock, fs, host, mail, mem, timer, uptime

The Battery monitor was originally named APM and the theme subdirectory for it remains "apm" to avoid breaking themes.

Plugins will each have their own theme subdirectory which can be determined from the plugin documentation.

All builtin or plugin Chart monitor theme subdirectories may have the custom images:

```
bg_chart.png
bg_grid.png
bg_panel.png
krell.png
spacer_top.png
spacer_bottom.png
```

All builtin or plugin Meter monitor theme subdirectories may have the custom images (however, not all may use the krell.png):

```
bg_meter.png      (bg_panel.png is accepted for convenience)
krell.png
spacer_top.png
spacer_bottom.png
```

In addition to the above custom images, each builtin or plugin may have additional images which are extension to the theme. And they may also accept custom Style, integer, string, or image border settings in the gkrellmrc. Plugins should document what these images and custom settings are and how they are used. The builtin theme gkrellmrc settings will be listed later in the gkrellmrc section, while the builtin image extensions are listed here:

```
cpu:
    cpu/nice.png
    cpu/nice_grid.png

net:
    net/decal_net_leds.png

mail:
    mail/decal_mail.png
    mail/krell_penguin.png

mem:
    mem/krell_buffers.png
    mem/krell_cache.png

sensors:
    sensors/bg_volt.png

timer:
    timer/decal_timer_button.png
    timer/bg_timer.png
```

Theme Image Descriptions

Background images

- frame_top.png
The rendered height can be set with frame_top_height and a border specified with frame_top_border in gkrellmrc. Transparency is allowed.
- frame_bottom.png
The rendered height can be set with frame_bottom_height and a border specified with frame_bottom_border in gkrellmrc. Transparency is allowed.
- frame_left.png

The rendered width can be set with `frame_left_width` and a border specified with `frame_left_border` in `gkrellmrc`. Transparency is allowed.

- `frame_right.png`

The rendered width can be set with `frame_right_width` and a border specified with `frame_right_border` in `gkrellmrc`. Transparency is allowed.

- `bg_chart.png`

The background image for the chart area of a chart monitor. A border for this image can be set in the `gkrellmrc`. To provide custom backgrounds for specific chart monitors, theme subdirectories may have a custom version of this image.

- `bg_grid.png`

This is a 1 or 2 pixel high image which is pasted onto a `bg_chart` background image to show grid lines. Use it to get nice etched grid lines. It should balance the requirement that it be visible yet not distract the eye from the data that is plotted on the chart. Monitor subdirectories may have a custom version of this image.

- `bg_separator`

The user may optionally split Charts into data views. Data views on a chart will be separated by this image. It will be rendered to `bg_separator_height` (specified in the `gkrellmrc`), which should probably be 2 pixels high.

- `bg_panel.png`

The background image for the panel area of a chart monitor. A border for this image can be set in the `gkrellmrc`. Monitor subdirectories may have a custom version of this image.

- `bg_meter.png`

The background image for the meter areas of meter monitors. A border for this image can be set in the `gkrellmrc`. Meter monitor subdirectories may have a custom version of this image which for convenience may be named `bg_panel.png`.

Detail images

The default theme images will be used for any of these which do not exist in your theme directory.

- `button_panel_out.png`

- `button_panel_in.png`

These are images for a button type where the images for it are displayed only when the panel area where they exist has the mouse. When this button appears, it is an overlay on a label (or decal) to emphasize that the label has been assigned button status for launching a command. Since the button is an overlay, it ideally should be a 1 - 3 pixel highlighting border surrounding a transparent interior (see the default theme implementation), but it could be a semi-transparent special effect image depending on the theme. If these images do not exist in your theme then the button overlay will be constructed with a default gray color and may or may not look good with your theme. Set the border sizes for these images in the `gkrellmrc` with the `button_panel_border` option.

- `button_meter_out.png`

- **button_meter_in.png**
Same as for button_panel except for overlay buttons in a meter area. Set the border with the button_meter_border option in the gkrellmrc. If your bg_meter is similar to bg_panel, then these can be copies of the button_panel_in/out images.
- **krell_panel.png**
A vertical stack of krell frames. See the Tips and Comments below. These are used in the bg_panel areas and are intended to be used as fast response indicators on chart monitors. The default depth is 4, although the middle two frames are identical. If you make a custom krell_panel, you must tell GKrellM the depth in the gkrellmrc file if it is different from the default. Chart monitor subdirectories may have a custom version of this image, which should be named krell.png
- **krell_meter.png**
A vertical stack (default depth 1) of krells used in the bg_meter area of meter monitors. If you make a custom krell_meter, you must tell GKrellM the depth in the gkrellmrc file if it is different from the default. Meter monitor subdirectories may have a custom version of this image, which should be named krell.png
- **krell_slider.png**
A vertical stack (default depth 7) of krells used in the bg_panel or bg_meter areas of chart or meter monitors. If you make a custom krell_slider, you must tell GKrellM the depth in the gkrellmrc file if it is different from the default.
- **decal_alarm.png**
A vertical stack of images that are cycled through when an alarm is triggered. These images are usually placed behind a text decal to highlight the value that has triggered the alarm. If you don't have sensor voltage monitoring or the Battery monitor to play with, run "gkrellm -demo" and you will be able to set Battery alerts and see the decal_alarm and decal_warn in action. Set the number of frames this image has in the gkrellmrc:
 decal_alarm_frames n
- **decal_warn.png**
Same as decal_alarm.png, except it is triggered by a less serious warning event. Set the number of frames for this image in the gkrellmrc: decal_warn_frames n
- **decal_misc.png**
A vertical stack of decals used for various monitors. I have tried to make these theme generic, but you could touch them up to better match your theme.
- **decal_button.png**
A general purpose button image which monitors may scale to different sizes. There are two vertically stacked button image frames with the button out image on top of the button pressed image. This image is not used in GKrellM version 1.x.

Optional data plotting images

- data_in.png
- data_in_grid.png
- data_out.png

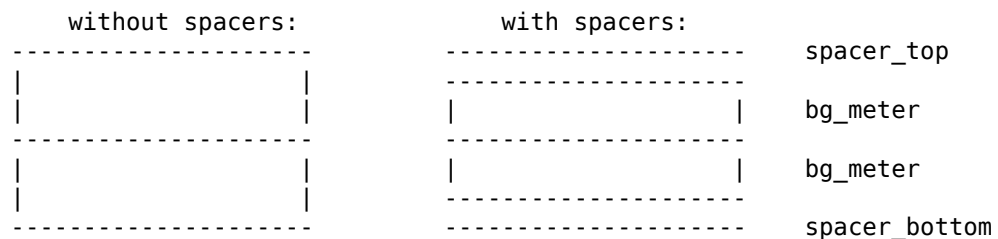
- `data_out_grid.png`

If these images exist they are used to plot data on the charts. You can have textured or 3D plotted data to go with your `bg_chart`. The `data_in_grid` and `data_out_grid` should be 1 or 2 pixel high images and are drawn where the plotted data crosses a chart grid line. If any of these do not exist data plotting falls back to using the `in_color` and `out_color` specified in `gkrellmrc`. Any shading effect you put into a data image should probably track shading on your `bg_chart`. Shading effects are not very apparent on low data density charts, so get a big compile or net download going to see the effects.

Optional spacer images

- `spacer_top.png`
- `spacer_bottom.png`
- `spacer_top_chart.png`
- `spacer_bottom_chart.png`
- `spacer_top_meter.png`
- `spacer_bottom_meter.png`

Spacer images form a visual separator between monitors. Spacers are rendered to a default height of 3 pixels unless set otherwise in the `gkrellmrc`. Borders for these images are set in the `gkrellmrc` with `spacer_top_border` and `spacer_bottom_border` lines. Spacer images can be set for all monitors, chart styled monitors only, meter styled only, Theme subdirectories may have a custom version of this image. For example, a meter monitor with two panels can be either of:



Optional cap images

- `cap_top_left_chart.png`
- `cap_bottom_left_chart.png`
- `cap_top_right_chart.png`
- `cap_bottom_right_chart.png`
- `cap_top_left_meter.png`
- `cap_bottom_left_meter.png`
- `cap_top_right_meter.png`
- `cap_bottom_right_meter.png`

Cap images are drawn on the left and right frames aligned to the top and bottom of each monitor. Left cap images are left adjusted in the left frame and right cap images are right adjusted in the right frame. They can be turned off for specific monitors. Meter monitors can be a single panel so it's probably difficult to design a theme with both top and bottom meter cap images. These images are not scaled.

Builtin monitor custom images

- `cpu/nice.png`
- `cpu/nice_grid.png`
Used to plot the cpu nice time data in a color different from either the `data_in` or `data_out` colors. If these images don't exist and the `cpu_nice_color` and `cpu_nice_grid_color` strings are not set in the `gkrellmrc`, cpu nice time will use the `data_in` color.
- `mail/krell_penguin.png`
This is the multi frame penguin animation for new mail notification. However, it does not have to be a penguin - any alternative will do. Frame 0 is displayed when there is no new mail to announce and so should be left blank. When the penguin animation is enabled, new mail to announce triggers the display of frames 1 through depth-2 as an animation moving across the width of the mail monitor panel. Since frame depth-1 is not fully visible, it is not displayed and is left blank. The depth must be specified in the `gkrellmrc`:

```
StyleMeter
mail.krell_depth = d
```
- `mail/decal_mail.png`
This is the stationary envelope animation in the mailcheck panel. If envelope animation is enabled, frame 1 is shown by default and a new mail count increase triggers frames 1 through depth-1 to be shown as an animation. If envelope animation is disabled, frame 1 is shown by default and frame 0 is shown when a new mail count increase is detected. This image is applied by default to all themes. The number of frames is specified in the `gkrellmrc` file:

```
decal_mail_frames n
```
- `mem/krell_buffers.png`
An extra krell in the mem panel which shows kernel buffers usage. It should probably be de-emphasized with respect to the main panel krell. Offset and depth parameters for it can be set in the `gkrellmrc` (see "Notes on making a GKrellM theme" for expand-mode options):

```
set_integer mem_krell_buffers_yoff y
set_integer mem_krell_buffers_depth d
set_integer mem_krell_buffers_x_hot x
set_string  mem_krell_buffers_expand expand-mode
```

- `mem/krell_cache.png`
An extra krell in the mem panel which shows kernel buffers usage. It should probably be de-emphasized with respect to the main panel krell. Offset and depth parameters for it can be set in the `gkrellmrc` (see "Notes on making a GKrellM theme" for expand-mode options):

```
set_integer mem_krell_cache_yoff y
set_integer mem_krell_cache_depth d
set_integer mem_krell_cache_x_hot x
set_string  mem_krell_cache_expand expand-mode
```

- `net/decal_net_leds.png`
A vertical stack of 4 leds in the order:

```
rx_off, rx_on, tx_off, tx_on
```

The net LEDs are stenciled onto the `bg_panel` backgrounds of Net chart monitors. They may have non rectangular shapes with transparency. The rx and tx LEDs may overlap in complex ways

because they are individually stenciled onto the net bg_panels.

- timer/bg_timer.png

This is a background for the timer part of the TimerButton meter monitor and is superimposed on top of its bg_meter. It can be used to highlight the timer and visually separate it from the button. A border can be set for it in the gkrellmrc:

```
set_image_border timer_bg_timer l,r,t,b
```

- sensors/bg_volt.png

A framing background for the voltage values of the voltage sensor monitor. Run "gkrellm -demo" using the default theme to see it if you don't have hardware sensor monitoring. You can also set a border for this image in the gkrellmrc:

```
set_image_border sensors_bg_volt l,r,t,b
```

Probably the top and bottom border should be only 1 or 2.

- timer/decal_timer_button.png

This is a vertical stack of button images for the button in the TimerButton monitor. There are 4 frames in the order:

```
off, pressed, standby, on
```

Notes on making a GKrellM theme

1. A theme directory can exist anywhere for development purposes and can be specified on the command line:

```
gkrellm -t theme_dir
```

Hit the F5 key to reload a theme as you make changes.

2. Detail images are drawn on bg_panel or bg_meter backgrounds as layers and each image may have transparency.
3. Krells have several style parameters which you can set in the gkrellmrc. But note: it is possible for a plugin coder to write code such that his krell will not honor these settings.

- krell_yoff

Adjusts a krell's vertical offset into a panel or meter area.

- krell_depth

To build a krell with depth, vertically stack krell images in a krell_panel or krell_meter image and specify the number of frames in a krell_depth line in the gkrellmrc. The frame displayed will be a function of the depth and horizontal x position of the krell:

```
Depth 1: One frame displayed at all positions.
```

```
2: Display frame 0 at x = 0, frame 1 at all other positions.
```

```
n > 2: Display frame 0 at x = 0, frame n-1 at x = full_scale, and
        remaining frames at positions proportional to x/full_scale.
```

- krell_x_hot

This is an offset in pixels from the left edge of a krell image.

Krell images are drawn so that the krell x_hot spot is drawn at the current krell position in a panel or meter area (except for bar-mode krells, see below).

- krell_left_margin & krell_right_margin

The range of krell motion across a panel width may be

constrained between a left and right margin where the margins are number of pixels from the left or right panel edge respectively. These style settings are new in GKrellM version 1.2.9.

- `krell_expand`

The default is for a krell to be drawn at the same size as its original image. But, if a `krell_expand` value is set, the krell width will be rendered to match the width of the GKrellM window. The `krell_expand` values are:

- `left`

The krell image area from the left edge to the `x_hot` spot is rendered to fit the GKrellM monitor width. Look at the GKrellMSS plugin's VU meter krells for examples of this krell type.

- `right`

The krell image area from the `x_hot` spot to the right edge is rendered to fit the GKrellM monitor width. This may not be useful.

- `bar-mode`

The total krell image width is rendered to fit the GKrellM monitor width. Additionally, the krell `x_hot` spot is ignored. Instead, the krell position is indicated by drawing only the portion of the rendered krell image from its left edge to the current krell position. The visual appearance is then a static "bar" across the panel width with only the left portion up to the current krell position visible. This is new in version 1.2.5.

- `left-scaled, right-scaled, bar-mode-scaled`

Same as above except the rendering of the krell width is scaled to fit the width between the krell left and right margins. If both `krell_left_margin` and `krell_right_margin` are zero, these modes are equivalent to `left`, `right`, and `bar-mode` respectively. These are new in version 1.2.9

- To summarize the difference between a `bar-mode` and `left expanded` krell:

The `bar-mode` krell position is fixed on a panel and only a fractional part of its width is drawn. The draw is from the krell left margin to a right position between the left and right margins that corresponds to the current krell value. The `left expanded` krell position is moved so its `x_hot` spot is placed on a panel at a position corresponding to its current krell value. The entire krell width is drawn but will be clipped at the krell left and right margins.

4. Run "`gkrellm -demo`" to see some less frequently used features you may not have available or enabled, such as `cpu temps` or the `battery monitor`.

Theme Alternatives

If there is a line in your `gkrellmrc`:

```
theme_alternatives = N
```

then you can have 1 to N different gkrellmrc and image alternatives that can be selected in the Themes tab. For each alternative N, you can have an optional gkrellmrc_N whose options will override any set in the base level gkrellmrc. If any image_N.png exists, it will be used in place of the base image.png. This can be used to give some flexibility to your theme. You could have more than one frame style or different font colors and sizes. For example if you have

```
theme_alternatives = 2
```

Then you would have 3 gkrellmrc files:

```
gkrellmrc          (always applied)
gkrellmrc_1        (applied after gkrellmrc for theme alternative 1)
gkrellmrc_2        (applied after gkrellmrc for theme alternative 2)
```

And you can have alternative images selectively applied depending on the alternative selected. If you had these images:

```
bg_meter.png
krell.png
krell_1.png
fs/krell.png
fs/bg_meter_2.png
```

then, these images would be used:

```
Default Alternative 0:
  Base images: bg_meter krell    fs monitor images: fs/krell bg_meter
Alternative 1:
  Base images: bg_meter krell_1  fs monitor images: fs/krell bg_meter
Alternative 2:
  Base images: bg_meter krell    fs monitor images: fs/krell fs/bg_meter_2
```

The gkrellmrc file

Adjustments to label positions, margins, label colors/fonts, image borders, krell parameters, frame rendering, etc are made in the gkrellmrc file. Setting these values may have a variable effect on different monitors because the programmer may use the values to differing degrees. For example, margins may affect a label or some text decal but not affect other text decals because the programmer explicitly centers the decal.

The possible gkrellmrc lines are listed here.

The author line credits the theme maker. This will appear in the Themes configuration window.

```
author = "yourname email address"
```

Theme alternatives are possible, see above.

```
theme_alternatives = N
```

If allow_scaling is true, then net LED position and size is scaled according to the chart_width/chart_width_ref ratio. chart_width_ref is the width you use for designing images and placing LEDs.

```
chart_width_ref    = w
allow_scaling       = {true | false}
```

Frames

Frames can be rendered to heights and widths different from the drawn image sizes. 0 means use the drawn image width or height.

```
frame_top_height = h
frame_bottom_height = h
frame_left_width = w
frame_right_width = w
```

Regions of the `bg_chart`, `bg_panel`, or `bg_meter` images may be overlapped onto the left and right frames. A simple use would be to overlap some `bg_chart` pixels so a chart can have a surrounding bevel outside of the active chart drawing area. This would be used in conjunction with giving the chart a top and bottom margin (with `StyleChart *.margins`) since a top and bottom chart margin is converted to a spacer that is also outside the active drawing area. The panel overlap values are used for `bg_panel`, `bg_meter`, `space_top`, and `spacer_bottom` images. These are new in GKrellM version 2.1.0 and 1.3.0.

```
frame_left_chart_overlap = n
frame_right_chart_overlap = n
frame_left_panel_overlap = n
frame_right_panel_overlap = n
```

Spacers can also overlap the left and right frames. The overlap values are applied to all spacers, but overlapping can be turned off for specific monitors. These are new in GKrellM version 2.1.0 and 1.3.0.

```
frame_left_spacer_overlap = l
frame_right_spacer_overlap = r
spacer_overlap_off monitor-name
```

Cap images drawn in the left and right frames can be turned off for specific monitors. This is new in GKrellM version 2.1.0 and 1.3.0.

```
cap_images_off monitor-name
```

Borders

Borders for images are specified with comma separated numbers in the order:

left border, right border, top border, bottom border

Borders for the main GKrellM window frame images.

```
frame_top_border = l,r,t,b
frame_bottom_border = l,r,t,b
frame_left_border = l,r,t,b
frame_right_border = l,r,t,b
```

Borders for the spacer images. Only the left and right values are used. These are new in GKrellM version 2.1.0 and 1.3.0.

```
spacer_top_border = l,r,x,x
spacer_bottom_border = l,r,x,x
```

Borders for the frame overlap areas. Only the top and bottom values are used. These are new in GKrellM version 2.1.0 and 1.3.0.

```
frame_left_chart_border = x,x,t,b
frame_right_chart_border = x,x,t,b
```

```
frame_left_panel_border = x,x,t,b
frame_right_panel_border = x,x,t,b
```

Chart data colors

The data colors plotted on the charts are plotted in two different ways. If the images `data_in.xxx`, `data_in_grid.xxx`, `data_out.xxx`, and `data_out_grid.xxx` exist in the theme dir, they are used to plot data. If they do not exist, then the colors set here are used. Grid colors are drawn where the plotted data crosses a grid line. This allows grid lines to "show through" on high density charts. Colors are hex triplets (`#rrggbb`) or `rgb.txt` color names. Put quotes around two word `rgb_color_names`.

```
chart_in_color      = { #rrggbb | rgb_color_name }
chart_in_color_grid = { #rrggbb | rgb_color_name }
chart_out_color     = { #rrggbb | rgb_color_name }
chart_out_color_grid = { #rrggbb | rgb_color_name }
```

Chart view and grid

The height of the `bg_separator` image that separates chart data views.

```
bg_separator_height = 2
```

Some tweaking on drawing the background grid lines. 0 is normal and 1 inhibits grid line drawing at the top and bottom of charts. This is useful for `bg_chart` pixmaps that have 3D shading at the top and bottom and is a cosmetic effect.

```
bg_grid_mode = {0,1}
```

The default is to fill chart text rectangle extents with the chart background so the text will be more readable on top of data. Set this to draw chart text without first filling (this will also prevent chart text caching so there will be slightly increased CPU usage).

```
chart_text_no_fill = {true,false}
```

Net monitor LEDS

Negative x values here mean justify `|x|` pixels from right frame. Positive x values mean justify x pixels from left frame. Where to put the LEDS of each net interface monitor in its panel:

```
rx_led_x = x
rx_led_y = y
tx_led_x = -x
tx_led_y = y
```

Animated mail decal

Number of frames in the stationary animated mail decal. Delay is number of update ticks between each frame. Set these if you replace the default mail decal envelope animation.

```
decal_mail_frames = 18
decal_mail_delay = 1
```

Alert decals

Number of frames in the alarm and warn decal animation. Set these if you have custom `decal_alarm.png` or `decal_warn.png` images.

```
decal_alarm_frames = 10
decal_warn_frames = 10
```

Slider krell

There is a krell image used as a slider control. Set its depth and `x_hot` if you replace the default. You can have a bar mode krell slider if you set `krell_slider_expand` to "bar-mode" (for this depth should be 1). There is one slider krell for all meter areas and panel areas, so positioning style settings can be applied only if a monitor has programmed the ability and this would be documented elsewhere.

```
krell_slider_depth = d
krell_slider_x_hot = x
krell_slider_expand = {left | right | bar-mode} # New in 1.2.5
```

Panel buttons

Borders for the panel and meter buttons.

```
button_panel_border = l,r,t,b
button_meter_border = l,r,t,b
```

Fonts

In gkrellm versions prior to 2.2.0 default fonts could be set in the `gkrellmrc`, but this is no longer recognized and users will just config their own font preferences if they don't like the built in default.

Spacer height

If you use any top or bottom spacer images for monitors you can set something other than the default 3 pixel height. The height of the spacers may be set for all monitors, or independently for chart and meter monitor types, or specifically for individual monitors. "mon" is a chart or meter monitor style name as listed below for styles (eg, clock, fs, gkrellmms, etc).

```
spacer_top_height = h           # set for all monitors
spacer_bottom_height = h

spacer_top_height_chart = h     # set for chart type monitors
spacer_bottom_height_chart = h

spacer_top_height_meter = h     # set for meter type monitors
spacer_bottom_height_meter = h

spacer_top_height mon = h       # set only for monitor "mon"
spacer_bottom_height mon = h
```

Extension hooks

These are ways to get options set for image or feature extensions which plugins will use. Builtins may also use these hooks to set parameters.

If a monitor uses a background image in addition to the standard `bg_panel` or `bg_chart` and its code allows for the image to be themed, a hook to set the border for that image may have been provided. It will be necessary to check plugin documentation to find the names, but for example, say a plugin "frump" uses an additional background image "bg_special.png" and for setting its border has added an image border hook "frump_bg_special". Then if you have made a theme image `frump/bg_special.png` for this plugin, you can set the image border with:

```
set_image_border frump_bg_special = l,r,t,b
```

Plugins also have a way to request integer or string initialization values from the `gkrellmrc`. Again, check for plugin Theme file documentation. There could be options like:

```
set_integer frump_some_integer = n
set_string frump_some_color_string = "deep sky blue"
```

New in version 1.2.9, monitors may also define custom styles by adding a custom style name field to the `StyleMeter` or `StylePanel` lines. These are probably most useful when a monitor has additional krells. If these exist they should be documented in a plugin's Themes or README file. For example, if the frump plugin has a standard default krell and one extension krell which the plugin writer has named "gas-gauge", then the `gkrellmrc` can first set values for the standard krell:

```
StyleMeter frump.krell_depth = 5
StyleMeter frump.krell_yoff = 2
StyleMeter frump.krell_expand = bar-mode-scaled
```

The extension gas-gauge krell will use plugin defaults if you do not set any of its style values. But when you set its first style value, it will be initialized to the currently set standard krell values. So you only need to specify values that are different from the standard krell, eg:

```
StyleMeter frump.gas-gauge.krell_yoff = 10
StyleMeter frump.gas-gauge.krell_expand = none
```

*Note: if you theme a plugin, it is a good idea to include all of its themable parameters in your `gkrellmrc` in case the plugin's default values change and break your theme. Do not rely on the default values.

Builtin monitor extension hooks

CPU monitor nice data color (both must be set and they won't be recognized if there are theme `cpu/nice.png` images):

```
set_string cpu_nice_color color_string
set_string cpu_nice_grid_color color_string
```

Net timer monitor border for the optional `bg_timer.png` image. If `bg_timer.png` exists, it will be placed inside the top margin and bottom margin and at the left margin of the timer panel. The timer display will be placed inside of the borders.

```
set_image_border timer_bg_timer 1,1,2,2
```

Memory monitor krell_buffers optional image:

```

set_integer mem_krell_buffers_yoff 0
set_integer mem_krell_buffers_depth 1
set_integer mem_krell_buffers_x_hot -1
set_string  mem_krell_buffers_expand none    # New in 1.2.5

```

Memory monitor krell_cache optional image:

```

set_integer mem_krell_cache_yoff 0
set_integer mem_krell_cache_depth 1
set_integer mem_krell_cache_x_hot -1
set_string  mem_krell_cache_expand none      # New in 1.2.5

```

Style settings for the monitors

Some options can be set to apply globally to areas of all similar monitors, or can be set to individually apply only to an area of a specific monitor. This is done with Style lines which can have a global '*' scope name or a specific monitor name. Since these theme specifications begin at the monitor drawing area level, there are Style lines for each area. There are StyleChart and StylePanel lines for the chart and panel areas in the Chart monitors, and a StyleMeter line for the meter areas in the Meter monitors.

The builtin Chart monitors are: *cpu, proc, disk, inet, net*.

To apply a setting to a particular monitor, replace the '*' with the monitor name. Plugin Chart monitor style names may be available which can also be used in place of the '*'.

The builtin Meter monitors are: *apm, cal, clock, fs, host, mail, mem, swap, timer, sensors, uptime*.

Where for backward compatibility, "apm" is used for the Battery monitor. To apply a setting to a particular monitor, replace the '*' with the monitor name. Plugin Meter monitor style names may be available which can also be used in place of the '*'.

Notes about Style settings for chart, panel, and meter areas:

- textcolor line settings are:

```
color shadow_color drawing_effect
```

color or shadow_color may be hex #rrggbb or text rgb_color_names, with two word rgb_color_names enclosed in quotes.

- transparency settings are:
 - 1 - Forces a totally transparent chart, panel, or meter area.
 - 2 - For a partially transparent chart, panel, or meter area.
- For charts only: if top and bottom margins are set, the margin regions are converted to spacers and are excluded from the active drawing area.

Notes about Style settings for panel or meter areas only:

- label_position is a percent of chart width, so a position of 50 would horizontally center a label.
-
- label_yoff (new in 2.2.2) is a pixel offset for labels from the top of a

panel. If `label_yoff` is ≤ 0 (the default), labels are placed at the panel top margin. Use this if for some reason you want to control a label's y position independent of the panel top margin setting. Not all panels use labels, so this may be of special case usefulness.

- margins may be used to set all margins at once, or you may individually set `left_margin`, `right_margin`, `top_margin`, `bottom_margin`. They are used for positioning of labels and decal. margins, `left_margin`, and `right_margin` are new in 1.2.9. The old "margin" (no 's') which sets both left and right margin to the same value may still be used. Krell margins are set independently of panel margins with `krell_left_margin` and `krell_right_margin`. Krell vertical positioning uses `krell_yoff` and there are no top or bottom krell margins.
- `krell_depth` is the number of frames in the krell image.
- `krell_x_hot` is an offset into a krell frame. Set to -1 to set `x_hot` to center.
- `krell_yoff` is an offset from a panel or meter area top for krell drawing.
- `scroll_text_cache_off` is a boolean that will prevent use of a scroll text decal pixmap for scrolling. Set this to "yes" if the background of scrolling text does not blend well with your panel background on monitors such as host, fs, mem, and swap. This is new for version 2.2.0 and keep in mind there can be an increased CPU usage tradeoff when this is set. Various plugins will probably be updated to use scrolling text decals.
- A theme can assume the *large_font*, *normal_font*, *small_font* strings used in font settings will be relatively sized as implied by their names even though a user is free to select any font he likes for each.

Style settings applicable to the chart areas of Chart monitors

```
StyleChart      *.border = l,r,t,b
StyleChart      *.margins = x,x,t,b
StyleChart      *.textcolor = #rrggbb #rrggbb {shadow | none}
StyleChart      *.alt_textcolor = #rrggbb #rrggbb {shadow | none}
StyleChart      *.font = {large_font | normal_font | small_font}
StyleChart      *.transparency = { 1 | 2 }
```

Style settings applicable to the panel areas of Chart monitors

```
StylePanel      *.border = l,r,t,b
StylePanel      *.label_position = { 0-100 | center | none }
StylePanel      *.label_yoff = n
StylePanel      *.margins = l,r,t,b
StylePanel      *.left_margin = m
StylePanel      *.right_margin = m
StylePanel      *.top_margin = m
StylePanel      *.bottom_margin = m
StylePanel      *.textcolor = #rrggbb #rrggbb {shadow | none}
StylePanel      *.alt_textcolor = #rrggbb #rrggbb {shadow | none}
StylePanel      *.font = {large_font | normal_font | small_font}
StylePanel      *.alt_font = {large_font | normal_font | small_font}
StylePanel      *.krell_depth = d
StylePanel      *.krell_x_hot = x
StylePanel      *.krell_yoff = y
StylePanel      *.krell_expand = none
StylePanel      *.krell_left_margin = 0
StylePanel      *.krell_right_margin = 0
```

StylePanel *.transparency = { 1 | 2 }

Style settings applicable to the meter areas of Meter monitors

StyleMeter *.border = l,r,t,b
StyleMeter *.label_position = { 0-100 | center | none }
StyleMeter *.label_yoff = n
StyleMeter *.margins = l,r,t,b
StyleMeter *.left_margin = m
StyleMeter *.right_margin = m
StyleMeter *.top_margin = m
StyleMeter *.bottom_margin = m
StyleMeter *.textcolor = #rrggbb #rrggbb {shadow | none}
StyleMeter *.alt_textcolor = #rrggbb #rrggbb {shadow | none}
StyleMeter *.font = {large_font | normal_font | small_font}
StyleMeter *.alt_font = {large_font | normal_font | small_font}
StyleMeter *.krell_depth = d
StyleMeter *.krell_x_hot = x
StyleMeter *.krell_yoff = y
StyleMeter *.krell_expand = none
StyleMeter *.krell_left_margin = 0
StyleMeter *.krell_right_margin = 0
StyleMeter *.transparency = { 1 | 2 }
StyleMeter *.scroll_text_cache_off = { yes | no }

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