



RebGUI Widget Reference

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Purpose: Describes the use and operation of the various RebGUI widgets.

Introduction

Each of the following sections describes a function in detail with one or more of the following:

- **Usage:** one or more code samples demonstrating an aspect of the widget's use.
- **Description:** brief description of what the widget is and any other points of interest.
- **Options:** allowable specification options.
- **Attributes:** `rebface` attributes with a value other than `none!` (the default).
- **Predefined feels:** feel function(s) that have already been defined.
- **Predefined actions:** action function(s) that have already been defined.
- **Extended attributes:** attributes, other than functions, not present in the standard `rebface` object.
- **Accessor functions:** functions specific to the widget.

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1. [anim](#)

USAGE:

```
anim data [ctx-rebgui/images/help ctx-rebgui/images/info]
anim data [%img1.png %img2.png %img3.png]
```

```
anim data [img1 img2 img3] rate 2
```

DESCRIPTION:

Cycles a set of images at a specified rate.

ATTRIBUTES:

```
size      -1x-1
effect    fit
rate      1
```

PREDEFINED ACTIONS:

```
on-time
```

EXTENDED ATTRIBUTES:

```
init      function!
```

Source code: [anim.r](#)

2. area

USAGE:

```
area
area "Text" -1
area "Text" 50x-1
```

DESCRIPTION:

Editable text area with wrapping and scroller.

ATTRIBUTES:

```
size      50x25
text      ""
color     255.255.255
edge      object!
font      object!
para      object!
```

PREDEFINED FEELS:

```
redraw
engage
```

PREDEFINED ACTIONS:

```
on-resize
on-scroll
```

EXTENDED ATTRIBUTES:

```
esc      none
caret    none
undo     block!
text-y   none
key-scroll? false
init     function!
```

Source code: [area.r](#)

3. arrow

USAGE:

```
arrow
arrow 10
arrow data 'up
arrow data 'down
arrow data 'left
arrow data 'right
```

DESCRIPTION:

An arrow (default down) on a square button face with height set to width.

ATTRIBUTES:

```
size      5x-1
effect    block!
data      down
edge      object!
```

PREDEFINED FEELS:

```
over
engage
```

EXTENDED ATTRIBUTES:

```
old-color none
init     function!
```

Source code: [arrow.r](#)

4. bar

USAGE:
bar 100

DESCRIPTION:
A thin bar used to separate widgets.
Defaults to maximum display width.

ATTRIBUTES:
size -1x-1
color 112.112.112

EXTENDED ATTRIBUTES:
init function!

Source code: [bar.r](#)

5. box

USAGE:
box red

DESCRIPTION:
The most basic of widgets, a rectangular area.

ATTRIBUTES:
size 25x25

Source code: [box.r](#)

6. btn

USAGE:
btn "Hello"
btn -1 "Go!"
btn "Click me!" [print "click"]

DESCRIPTION:
Performs action when clicked.

ATTRIBUTES:
size -1x5
text ""
effect block!
edge object!
font object!

PREDEFINED FEELS:
over
engage

EXTENDED ATTRIBUTES:
old-color none
init function!

Source code: [btn.r](#)

7. button

USAGE:
button "Hello"
button -1 "Go!"
button "Click me!" [print "click"]

DESCRIPTION:
Performs action when clicked.

ATTRIBUTES:
size 15x5
text ""
effect block!
font object!

PREDEFINED FEELS:
over
engage

```

PREDEFINED ACTIONS:
    on-resize

EXTENDED ATTRIBUTES:
    init          function!
    old-color      none

```

Source code: [button.r](#)

8. calendar

```

USAGE:
    calendar
    calendar data 1-Jan-2000

DESCRIPTION:
    Used to select a date, with face/data set to current selection.
    Default selection is now/date.

ATTRIBUTES:
    size          56x40
    color          255.255.255
    edge          object!

PREDEFINED FEELS:
    redraw

EXTENDED ATTRIBUTES:
    date          none
    init          function!

```

Source code: [calendar.r](#)

9. chat

```

USAGE:
    chat 120 data ["Bob" blue "My comment." yello 14-Apr-2007/10:58]

DESCRIPTION:
    Three column chat display as found in IM apps such as AltME.
    Messages are appended, with those exceeding 'limit not shown.

OPTIONS:
    [limit n] where n specifies number of messages to show (default 100)
    [id n] where n specifies id column width (default 10)
    [user n] where n specifies user column width (default 15)
    [date n] where n specifies date column width (default 25)

ATTRIBUTES:
    size          200x100
    pane          block!
    data          block!
    edge          object!

PREDEFINED ACTIONS:
    on-resize

EXTENDED ATTRIBUTES:
    height        0
    rows          0
    limit         none
    init          function!

ACCESSOR FUNCTIONS:
    APPEND-MESSAGE user user-color msg msg-color date /no-show row
    SET-USER-COLOR id color
    SET-MESSAGE-TEXT id string
    SET-MESSAGE-COLOR id color
    REDRAW /no-show

```

Source code: [chat.r](#)

10. check

```

USAGE:
    check "Option"
    check "Option" data true
    check "Option" data false

```

DESCRIPTION:

Bistate check-box with a tick for Yes and empty for No.

ATTRIBUTES:

size	-1x5
text	" "
effect	block!
font	object!
para	object!

PREDEFINED FEELS:

over
engage

EXTENDED ATTRIBUTES:

p1	2x6
p2	10x14
init	function!

Source code: [check.r](#)

11. check-group

USAGE:

```
check-group data ["Option-1" true "Option-2" false "Option-3" none]
```

DESCRIPTION:

Group of check boxes.
Alignment is vertical unless height is specified as line height.
At runtime face/data is a block of logic (or none) indicating state of each check box.

ATTRIBUTES:

size	50x-1
pane	block!

EXTENDED ATTRIBUTES:

init	function!
------	-----------

Source code: [check-group.r](#)

12. drop-list

USAGE:

```
drop-list "1" data [1 2 3]
drop-list data ["One" "Two" "Three"]
drop-list data ctx-rebgui/locale*/colors
```

DESCRIPTION:

Single column modal selection list.
At runtime face/text contains current selection.

ATTRIBUTES:

size	25x5
text	" "
effect	block!
data	block!
edge	object!
font	object!

PREDEFINED FEELS:

over
engage

PREDEFINED ACTIONS:

on-resize
on-unfocus

EXTENDED ATTRIBUTES:

hidden-caret	none
hidden-text	none
init	function!

ACCESSOR FUNCTIONS:

PICKED

Source code: [drop-list.r](#)

13. edit-list

USAGE:

```
edit-list "1" data [1 2 3]
edit-list data ["One" "Two" "Three"]
edit-list data ctx-rebgui/locale*/colors
```

DESCRIPTION:

Editable single column modal selection list.
At runtime face/text contains current selection.

ATTRIBUTES:

size	25x5
text	" "
color	255.255.255
data	block!
edge	object!
font	object!
para	object!

PREDEFINED FEELS:

over
engage

PREDEFINED ACTIONS:

on-resize
on-unfocus

EXTENDED ATTRIBUTES:

hidden-caret	none
hidden-text	none
init	function!
caret	none

ACCESSOR FUNCTIONS:

PICKED

Source code: [edit-list.r](#)

14. field

USAGE:

```
field
field -1 "String"
```

DESCRIPTION:

Editable text field with no text wrapping.

ATTRIBUTES:

size	50x5
text	" "
color	255.255.255
edge	object!
font	object!
para	object!

PREDEFINED FEELS:

engage

EXTENDED ATTRIBUTES:

init	function!
esc	none
caret	none
undo	block!

Source code: [field.r](#)

15. group-box

USAGE:

```
group-box "Title" data [field field]
```

DESCRIPTION:

A static widget used to group widgets within a bounded container.

ATTRIBUTES:

size	-1x-1
text	" "
effect	block!
font	object!
para	object!

PREDEFINED FEELS:

redraw

PREDEFINED ACTIONS:

on-resize

EXTENDED ATTRIBUTES:

group none
init function!

Source code: [group-box.r](#)

16. heading

USAGE:

heading "A text heading."

DESCRIPTION:

Large text.

ATTRIBUTES:

size -1x7
text ""
font object!

EXTENDED ATTRIBUTES:

init function!

Source code: [heading.r](#)

17. icon

USAGE:

icon %actions/go-up.png

DESCRIPTION:

An icon.

ATTRIBUTES:

size 5x5
pane block!
effect block!
data down
edge object!

PREDEFINED FEELS:

over
engage

EXTENDED ATTRIBUTES:

old-color none
init function!

Source code: [icon.r](#)

18. image

USAGE:

image %icons/Tango-feet.png
image logo
image logo effect [crop 10x10 50x50]

DESCRIPTION:

An image.

ATTRIBUTES:

size -1x-1
effect fit

EXTENDED ATTRIBUTES:

init function!

Source code: [image.r](#)

19. label

USAGE:

label "A text label."

DESCRIPTION:

Label text.

ATTRIBUTES:

size	25x5
text	" "
font	object!

EXTENDED ATTRIBUTES:

init	function!
------	-----------

Source code: [label.r](#)

20. led

USAGE:

```
led "Option"
led "Option" data true
led "Option" data false
led "Option" data none
```

DESCRIPTION:

Tristate indicator box with colors representing Yes & No, and empty being Unknown.

ATTRIBUTES:

size	-1x5
effect	block!
font	object!
para	object!

PREDEFINED FEELS:

redraw

EXTENDED ATTRIBUTES:

init	function!
------	-----------

Source code: [led.r](#)

21. led-group

USAGE:

```
led-group data ["Option-1" true "Option-2" false "Option-3" none]
```

DESCRIPTION:

Group of LED indicators.
Alignment is vertical unless height is specified as line height.
At runtime face/data is a block of logic (or none) indicating state of each LED indicator.

ATTRIBUTES:

size	50x-1
pane	block!

PREDEFINED FEELS:

redraw

EXTENDED ATTRIBUTES:

init	function!
------	-----------

Source code: [led-group.r](#)

22. link

USAGE:

```
link
link http://www.dobeash.com
link "RebGUI" http://www.dobeash.com/rebgui
```

DESCRIPTION:

Hypertext link.

ATTRIBUTES:

size	-1x5
font	object!

PREDEFINED FEELS:

over
engage

EXTENDED ATTRIBUTES:

init	function!
------	-----------

Source code: [link.r](#)

23. menu

USAGE:

```
menu data ["Item-1" ["Choice 1" [alert "1"] "Choice 2" [alert "2"] ] "Item-2" [ ] ]
```

DESCRIPTION:

Simple one-level text-only menu system.

ATTRIBUTES:

```
size          100x5
pane          block!
color         207.207.207
effect        block!
edge          object!
font          object!
```

EXTENDED ATTRIBUTES:

```
init          function!
```

Source code: [menu.r](#)

24. panel

USAGE:

```
panel data [after 1 field field]
```

DESCRIPTION:

A static widget used to group widgets within a container.

ATTRIBUTES:

```
size          -1x-1
effect        block!
```

PREDEFINED ACTIONS:

```
on-resize
```

EXTENDED ATTRIBUTES:

```
group         none
init          function!
```

Source code: [panel.r](#)

25. password

USAGE:

```
password
password "Secret"
```

DESCRIPTION:

Editable password field with text displayed as a progress bar.

ATTRIBUTES:

```
size          50x5
text          ""
color         255.255.255
effect        block!
edge          object!
font          object!
para          object!
```

PREDEFINED FEELS:

```
engage
```

PREDEFINED ACTIONS:

```
on-edit
```

EXTENDED ATTRIBUTES:

```
init          function!
esc           none
caret         none
undo          block!
```

Source code: [password.r](#)

26. pill

```

USAGE:
    pill red

DESCRIPTION:
    A rectangular area with rounded corners.

ATTRIBUTES:
    size          10x10
    effect        block!

PREDEFINED ACTIONS:
    on-resize

EXTENDED ATTRIBUTES:
    init          function!

```

Source code: [pill.r](#)

27. progress

```

USAGE:
    progress
    progress data .5

DESCRIPTION:
    A horizontal progress indicator.
    At runtime face/data ranges from 0 to 1 indicating percentage.

ATTRIBUTES:
    size          50x5
    effect        block!
    data          0
    edge          object!

PREDEFINED FEELS:
    redraw

PREDEFINED ACTIONS:
    on-resize

EXTENDED ATTRIBUTES:
    init          function!

```

Source code: [progress.r](#)

28. radio-group

```

USAGE:
    radio-group data ["Option A" "Option B"]
    radio-group data [2 "On" "Off"]

DESCRIPTION:
    Group of mutually exclusive radio buttons.
    Alignment is vertical unless height is specified as line height.
    An integer provided as the first entry in the block indicates the default selection.

ATTRIBUTES:
    size          -1x-1
    pane          block!

EXTENDED ATTRIBUTES:
    picked        none
    init          function!

ACCESSOR FUNCTIONS:
    SELECTED
    SELECT-ITEM item

```

Source code: [radio-group.r](#)

29. scroll-panel

```

USAGE:
    scroll-panel data [sheet]

DESCRIPTION:
    A panel used to group widgets within a scrollable container.

OPTIONS:

```

'offset keeps the original offset

ATTRIBUTES:

size	50x50
pane	block!
edge	object!

PREDEFINED ACTIONS:

on-click
on-resize
on-scroll

EXTENDED ATTRIBUTES:

p1	none
p2	none
p3	none
p4	none
sld-offset	0x0
init	function!

Source code: [scroll-panel.r](#)

30. sheet

USAGE:

```
sheet
sheet options [size 3x3 width 2]
sheet options [size 3x3 widths [2 3 4] ]
sheet data [A1 1 A2 2 A3 "=A1 + A2"]
```

DESCRIPTION:

Simple spreadsheet, based on rebocalc.r, with formulas calculated left to right, top to bottom. A cell is either a scalar value, string, or a formula starting with "=". Scalar values are automatically right-justified, series values left-justified. Remember to put spaces between each item in a formula and use () where needed.

OPTIONS:

'size specifies number of columns and rows
'width specifies cell width in relation to cell height
'widths specifies n cell widths

ATTRIBUTES:

size	-1x-1
pane	block!
color	207.207.207
data	block!

EXTENDED ATTRIBUTES:

group	none
init	function!

ACCESSOR FUNCTIONS:

LOAD-DATA dat
SAVE-DATA
ENTER face
COMPUTE

Source code: [sheet.r](#)

31. slider

USAGE:

```
slider []
slider data .5 [print face/data]
```

DESCRIPTION:

A slider control. Its size determines whether it is vertical or horizontal. At runtime face/data ranges from 0 to 1 indicating percentage.

OPTIONS:

[ratio n] where n indicates the initial dragger size

ATTRIBUTES:

size	5x50
pane	block!
effect	block!
data	0
edge	object!
font	object!

PREDEFINED FEELS:

redraw

```
over
engage
```

EXTENDED ATTRIBUTES:

```
ratio      0.1
step       5E-2
axis       2
state      none
init       function!
```

ACCESSOR FUNCTIONS:

```
SET-DATA new
UPDATE-DATA offset
```

Source code: [slider.r](#)

32. spinner**USAGE:**

```
spinner
spinner options [$1 $10 $1] data $5
```

DESCRIPTION:

Similar to a field, with arrows to increment/decrement a value by a nominated step amount.

OPTIONS:

[min max step] block of minimum, maximum and step amounts

ATTRIBUTES:

```
size      20x5
pane      block!
text      ""
color     255.255.255
edge      object!
font      object!
para      object!
```

PREDEFINED FEELS:

```
engage
```

PREDEFINED ACTIONS:

```
on-resize
on-scroll
on-unfocus
```

EXTENDED ATTRIBUTES:

```
init      function!
esc        none
caret     none
undo      block!
```

Source code: [spinner.r](#)

33. splitter**USAGE:**

```
area splitter area
```

DESCRIPTION:

Placed between two widgets on the same row or column.
Allows both to be resized by dragging the splitter left/right or up/down respectively.
Its size determines whether it is vertical or horizontal.

ATTRIBUTES:

```
size      2x25
effect    block!
edge      object!
font      object!
```

PREDEFINED FEELS:

```
redraw
over
engage
```

EXTENDED ATTRIBUTES:

```
init      function!
```

Source code: [splitter.r](#)

34. tab-panel

USAGE:

```
tab-panel data ["A" [field] "B" [field] "C" [field] ]
tab-panel data ["1" [field] action [face/color: red] "2" [field] ]
```

DESCRIPTION:

A panel with a set of tabs.
Each tab spec may be preceded by an action block spec.

OPTIONS:

'action do action of initial tab (if any)
[tab n] where n specifies tab to initially open with (default 1)
no-tabs do not display tabs (overlay mode)

ATTRIBUTES:

```
size      -1x-1
pane      block!
```

EXTENDED ATTRIBUTES:

```
group     none
tabs      0
init      function!
```

ACCESSOR FUNCTIONS:

```
SELECTED
SELECT-TAB num
REPLACE-TAB num block /title text
```

Source code: [tab-panel.r](#)

35. table

USAGE:

```
table options ["Name" left .5 "Age" right .5] data ["Bob" 32 "Pete" 45 "Jack" 29]
```

DESCRIPTION:

Columns and rows of values formatted according to a header definition block.

OPTIONS:

'multi allows multiple rows to be selected at once
'no-sort disables column sorting
'no-resize disables column resizing
'fixed-sort limits sorting to first column only

ATTRIBUTES:

```
size      50x25
pane      block!
color      255.255.255
data      block!
edge      object!
```

PREDEFINED ACTIONS:

```
on-resize
```

EXTENDED ATTRIBUTES:

```
picked    block!
widths     block!
aligns     block!
cols       none
init       function!
```

ACCESSOR FUNCTIONS:

```
REDRAW
SELECTED
ROWS
ADD-ROW row /position pos
REMOVE-ROW row
ALTER-ROW row values
SELECT-ROW row /no-action
```

Source code: [table.r](#)

36. text

USAGE:

```
text "A text string."
text "Blue text" text-color blue
text "Bold text" bold
text "Italic text" italic
text "Underline text" underline
```

DESCRIPTION:

Normal text.

ATTRIBUTES:

size	-1x5
text	" "
font	object!
para	object!

EXTENDED ATTRIBUTES:

init	function!
------	-----------

Source code: [text.r](#)

37. text-list

USAGE:

```
text-list data ["One" "Two"]
text-list data ctx-rebgui/locale*/colors
text-list data [1 2] [print face/selected]
```

DESCRIPTION:

A single column list with a scroller.

OPTIONS:

'multi allows multiple rows to be selected at once

ATTRIBUTES:

size	50x25
color	255.255.255
data	block!
edge	object!

PREDEFINED ACTIONS:

on-resize

EXTENDED ATTRIBUTES:

picked	block!
init	function!

ACCESSOR FUNCTIONS:

```
REDRAW
SELECTED
ROWS
SELECT-ROW row /no-action
```

Source code: [text-list.r](#)

38. title-group

USAGE:

```
title-group %icons/setup.png data "Title" "Body"
```

DESCRIPTION:

A title and text with an optional image to the left.
If an image is specified then height is set to image height.

ATTRIBUTES:

size	100x100
font	object!

EXTENDED ATTRIBUTES:

init	function!
------	-----------

Source code: [title-group.r](#)

39. toggle

USAGE:

```
toggle data ["A" "B"]
```

DESCRIPTION:

Toggles state when clicked.

OPTIONS:

'on starts selected

ATTRIBUTES:

size	15x5
text	" "
effect	block!

```

edge      object!
font      object!

```

PREDEFINED FEELS:

```

over
engage

```

EXTENDED ATTRIBUTES:

```

old-color  none
init       function!
texts      none

```

Source code: [toggle.r](#)

40. tool-bar**USAGE:**

```

tool-bar data [arrow button field]
tool-bar data [icon "Open" %actions/document-open.png [] ]

```

DESCRIPTION:

A toolbar with small margins (2x1) and minimal spacing (1x1).

ATTRIBUTES:

```

size       -1x7
effect     block!
edge       object!
font       object!

```

PREDEFINED FEELS:

```

detect

```

EXTENDED ATTRIBUTES:

```

group      none
.tip       none
init       function!

```

Source code: [tool-bar.r](#)

41. tree**USAGE:**

```

tree data ["Pets" ["Cat" "Dog"] "Numbers" [1 2 3] ]

```

DESCRIPTION:

Values arranged in a collapsible hierarchy.

OPTIONS:

```

'only returns item not full path

```

ATTRIBUTES:

```

size       50x25
pane       block!
color      255.255.255
data       block!
edge       object!

```

PREDEFINED ACTIONS:

```

on-resize

```

EXTENDED ATTRIBUTES:

```

picked     block!
.data      block!
.tabs      block!
.data-path block!
.data-list block!
init       function!

```

ACCESSOR FUNCTIONS:

```

REDRAW
SELECTED
ROWS
SELECT-ROW row /no-action
BUILD-TREE string items

```

Source code: [tree.r](#)