**Graph Configure**

**Test Cases and Procedures**

**Authors:**

Sam Green

Nick Hudson

Stanton Sievers

Jarrod Stormo

### Test Case 1

**Test Case ID –** RBC.graph.configure.1

**Test Item –** The *configure* function of the *graph* BLT component.

**Input Specification –** A name value pair for the configuration options

**Output Specification –** The configuration options being changed on the graph

**Special Procedural Requirements –** None

**Inter-case Dependencies –** None

**Test Procedure – Configure Aspect**

**Test Case 1**

**Purpose –** Ensure configuring aspect changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.1.Setup” Tcl command
* Pre-Condition – There is a blank graph displayed on the screen
* Body

1. Call the “graph.configure::RBC.graph.configure.1.1.Body” Tcl command

* Post-Condition – The graph shrinks in vertically in half to a different aspect ratio
* Cleanup – Call the “graph.configure::RBC.graph.configure.1.1.Cleanup” command

**Test Procedure – Configure Background**

**Test Case 1**

**Purpose –** Ensure configuring background changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.2.Setup” Tcl command
* Pre-Condition – There is a blank graph displayed on the screen
* Body

1. Call the “graph.configure::RBC.graph.configure.1.2.Body” Tcl command

* Post-Condition – The graph axis background changes to a red color

Cleanup – Call the “graph.configure::RBC.graph.configure.1.2.Cleanup” command

**Test Procedure – Configure Barmode**

**Test Case 1**

**Purpose –** Ensure configuring barmode changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.3.Setup” Tcl command
* Pre-Condition – The graph has bar data with two stacks on the third data point
* Body

1. Call the “graph.configure::RBC.graph.configure.1.3.Body” Tcl command

* Post-Condition – The two stacks are placed side by side rather than on top of each other

Cleanup – Call the “graph.configure::RBC.graph.configure.1.3.Cleanup” command

**Test Procedure – Configure Barwidth**

**Test Case 1**

**Purpose –** Ensure configuring barwidth changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.4.Setup” Tcl command
* Pre-Condition – There is a graph display a bar chart
* Body

1. Call the “graph.configure::RBC.graph.configure.1.4.Body” Tcl command

* Post-Condition – The bar are stretched across the screen to be extremely wide

Cleanup – Call the “graph.configure::RBC.graph.configure.1.4.Cleanup” command

**Test Procedure – Configure Baseline (Doesn’t Work)**

**Test Case 1**

**Purpose –** Ensure configuring baseline changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.5.Setup” Tcl command
* Pre-Condition – The graph has bar data with two stacks on the third data point
* Body

1. Call the “graph.configure::RBC.graph.configure.1.5.Body” Tcl command

* Post-Condition – The two stacks are placed side by side rather than on top of each other

Cleanup – Call the “graph.configure::RBC.graph.configure.1.5.Cleanup” command

**Test Procedure – Configure Borderwidth (Doesn’t Change output when value changes)**

**Test Case 1**

**Purpose –** Ensure configuring barmode changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.6.Setup” Tcl command
* Pre-Condition – There is a blank graph displayed
* Body

1. Call the “graph.configure::RBC.graph.configure.1.6.Body” Tcl command

* Post-Condition – The axis are moved closer inward towards the graph

Cleanup – Call the “graph.configure::RBC.graph.configure.1.6.Cleanup” command

**Test Procedure – Configure Bottommargin**

**Test Case 1**

**Purpose –** Ensure configuring bottommargin changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.7.Setup” Tcl command
* Pre-Condition – There is a graph display of a bar chart
* Body

1. Call the “graph.configure::RBC.graph.configure.1.7.Body” Tcl command

* Post-Condition – The bottom axis is shifted down vertically

Cleanup – Call the “graph.configure::RBC.graph.configure.1.7.Cleanup” command

**Test Procedure – Configure Bottomvariable (No idea how this works)**

**Test Case 1**

**Purpose –** Ensure configuring bottomvariable changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.8.Setup” Tcl command
* Pre-Condition – There is a graph displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.8.Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.1.8.Cleanup” command

**Test Procedure – Configure Cursors**

**Purpose –** Ensure configuring cursors changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.9.Setup” Tcl command
* Pre-Condition – There is a graph display a bar chart using default cursors (crosshair)
* Body

1. Call the “graph.configure::RBC.graph.configure.1.9.Body” Tcl command

* Post-Condition – The cursor changes into a circle when moving across graph

Cleanup – Call the “graph.configure::RBC.graph.configure.1.9.Cleanup” command

**Test Procedure – Configure Data (No idea how this works)**

**Test Case 1**

**Purpose –** Ensure configuring data changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.10.Setup” Tcl command
* Pre-Condition – There is a graph displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.10.Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.10.Cleanup” command

**Test Procedure – Configure Datacommand (No idea how this works)**

**Test Case 1**

**Purpose –** Ensure configuring datacommand changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.11.Setup” Tcl command
* Pre-Condition – There is a graph displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.11.Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.1.11.Cleanup” command

**Test Procedure – Configure Font**

**Test Case 1**

**Purpose –** Ensure configuring font changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.12.Setup” Tcl command
* Pre-Condition – There is a graph with a title displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.12.Body” Tcl command

* Post-Condition – The title font changes into a smaller variant

Cleanup – Call the “graph.configure::RBC.graph.configure.1.12.Cleanup” command

**Test Procedure – Configure Foreground**

**Test Case 1**

**Purpose –** Ensure configuring foreground changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.13.Setup” Tcl command
* Pre-Condition – There is a graph with a title displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.13.Body” Tcl command

* Post-Condition – The title font change to be the color yellow

Cleanup – Call the “graph.configure::RBC.graph.configure.1.13.Cleanup” command

**Test Procedure – Configure Height**

**Test Case 1**

**Purpose –** Ensure configuring height changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.14.Setup” Tcl command
* Pre-Condition – There is a graph is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.14.Body” Tcl command

* Post-Condition – The height shrinks to a slim vertical distance

Cleanup – Call the “graph.configure::RBC.graph.configure.1.14.Cleanup” command

**Test Procedure – Configure HighlightBackground (No effect)**

**Test Case 1**

**Purpose –** Ensure configuring highlightbackground changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.15.Setup” Tcl command
* Pre-Condition – There is a graph is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.15.Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.1.15.Cleanup” command

**Test Procedure – Configure Highlightcolor (No effect)**

**Test Case 1**

**Purpose –** Ensure configuring highlightcolor changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.16.Setup” Tcl command
* Pre-Condition – There is a graph is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.16.Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.1.16.Cleanup” command

**Test Procedure – Configure Highlightthickness (No effect)**

**Test Case 1**

**Purpose –** Ensure configuring highlightthickness changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.17.Setup” Tcl command
* Pre-Condition – There is a graph is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.157Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.1.17.Cleanup” command

**Test Procedure – Configure Invertxy**

**Test Case 1**

**Purpose –** Ensure configuring invertxy changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.18.Setup” Tcl command
* Pre-Condition – There is a graph with axis labels on (X on bottom Y on left)
* Body

1. Call the “graph.configure::RBC.graph.configure.1.18.Body” Tcl command

* Post-Condition – The axis labels flip axis (X on left, Y on bottom)

Cleanup – Call the “graph.configure::RBC.graph.configure.1.18.Cleanup” command

**Test Procedure – Configure Justify**

**Test Case 1**

**Purpose –** Ensure configuring justify changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.19.Setup” Tcl command
* Pre-Condition – There is a graph with a title with the second line centered below the first
* Body

1. Call the “graph.configure::RBC.graph.configure.1.19.Body” Tcl command

* Post-Condition – The title’s second line of text is now aligned on the left side

Cleanup – Call the “graph.configure::RBC.graph.configure.1.19.Cleanup” command

**Test Procedure – Configure Leftmargin**

**Test Case 1**

**Purpose –** Ensure configuring leftmargin changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.20.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying on screen
* Body

1. Call the “graph.configure::RBC.graph.configure.1.20.Body” Tcl command

* Post-Condition – The left side of the graph is shifted to the left

Cleanup – Call the “graph.configure::RBC.graph.configure.1.20.Cleanup” command

**Test Procedure – Configure Leftvariable (No idea how this works)**

**Test Case 1**

**Purpose –** Ensure configuring leftvariable changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.21.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying on screen
* Body

1. Call the “graph.configure::RBC.graph.configure.1.21.Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.1.21.Cleanup” command

**Test Procedure – Configure Plotbackground**

**Test Case 1**

**Purpose –** Ensure configuring plotbackground changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.22.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying on screen with a white plot area
* Body

1. Call the “graph.configure::RBC.graph.configure.1.22.Body” Tcl command

* Post-Condition – The plot area changes to red

Cleanup – Call the “graph.configure::RBC.graph.configure.1.22.Cleanup” command

**Test Procedure – Configure Plotborderwidth**

**Test Case 1**

**Purpose –** Ensure configuring plotborderwidth changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.23.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying on screen
* Body

1. Call the “graph.configure::RBC.graph.configure.1.23.Body” Tcl command

* Post-Condition – The border around the white plot area increases to make it look sunken

Cleanup – Call the “graph.configure::RBC.graph.configure.1.23.Cleanup” command

**Test Procedure – Configure Plotpadx**

**Test Case 1**

**Purpose –** Ensure configuring plotpadx changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.24.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.24.Body” Tcl command

* Post-Condition – The plot area horizontally expands making the bottom axis look smaller and compressed

Cleanup – Call the “graph.configure::RBC.graph.configure.1.24.Cleanup” command

**Test Procedure – Configure Plotpady**

**Test Case 1**

**Purpose –** Ensure configuring plotpadx changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.25.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.25.Body” Tcl command

* Post-Condition – The plot area vertically expands making the axis numbers look smaller and compressed

Cleanup – Call the “graph.configure::RBC.graph.configure.1.25.Cleanup” command

**Test Procedure – Configure Plotrelief**

**Test Case 1**

**Purpose –** Ensure configuring plotrelief changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.26.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.26.Body” Tcl command

* Post-Condition – The plot area becomes raised instead of sunken

Cleanup – Call the “graph.configure::RBC.graph.configure.1.26.Cleanup” command

**Test Procedure – Configure Relief**

**Test Case 1**

**Purpose –** Ensure configuring relief changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.27.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.27.Body” Tcl command

* Post-Condition – The whole graph becomes raised instead of sunken

Cleanup – Call the “graph.configure::RBC.graph.configure.1.27.Cleanup” command

**Test Procedure – Configure Rightmargin**

**Test Case 1**

**Purpose –** Ensure configuring rightmargin changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.28.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.28.Body” Tcl command

* Post-Condition – The right side of the graph shrinks inwards

Cleanup – Call the “graph.configure::RBC.graph.configure.1.28.Cleanup” command

**Test Procedure – Configure Rightvariable (No idea how this works)**

**Test Case 1**

**Purpose –** Ensure configuring rightvariable changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.29.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying on screen
* Body

1. Call the “graph.configure::RBC.graph.configure.1.29.Body” Tcl command

* Post-Condition – ???

Cleanup – Call the “graph.configure::RBC.graph.configure.1.29.Cleanup” command

**Test Procedure – Configure Shadow (No effect)**

**Test Case 1**

**Purpose –** Ensure configuring shadow changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.30.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying
* Body

1. Call the “graph.configure::RBC.graph.configure.1.30.Body” Tcl command

* Post-Condition – The graph has a red shadow behind it

Cleanup – Call the “graph.configure::RBC.graph.configure.1.30.Cleanup” command

**Test Procedure – Configure Takefocus**

**Test Case 1**

**Purpose –** Ensure configuring takefocus changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.31.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying with a button. The graph cannot be switched to using tab.
* Body

1. Call the “graph.configure::RBC.graph.configure.1.31.Body” Tcl command
2. Press tab several times to switch focus between graph and button

* Post-Condition – The graph can now take the focus when pressing tab

Cleanup – Call the “graph.configure::RBC.graph.configure.1.31.Cleanup” command

**Test Procedure – Configure Tile**

**Test Case 1**

**Purpose –** Ensure configuring tile changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.32.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying.
* Body

1. Call the “graph.configure::RBC.graph.configure.1.32.Body” Tcl command

* Post-Condition – The plot area changes background to a buckskin image

Cleanup – Call the “graph.configure::RBC.graph.configure.1.32.Cleanup” command

**Test Procedure – Configure Title**

**Test Case 1**

**Purpose –** Ensure configuring title changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.33.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying.
* Body

1. Call the “graph.configure::RBC.graph.configure.1.33.Body” Tcl command

* Post-Condition – The graph now displays a title (“Test”) above the plot area

Cleanup – Call the “graph.configure::RBC.graph.configure.1.33.Cleanup” command

**Test Procedure – Configure Topmargin**

**Test Case 1**

**Purpose –** Ensure configuring topmargin changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.34.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying.
* Body

1. Call the “graph.configure::RBC.graph.configure.1.34.Body” Tcl command

* Post-Condition – The top of the graph moves down due to bigger top margin

Cleanup – Call the “graph.configure::RBC.graph.configure.1.34.Cleanup” command

**Test Procedure – Configure Topmargin**

**Test Case 1**

**Purpose –** Ensure configuring topmargin changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.34.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying.
* Body

1. Call the “graph.configure::RBC.graph.configure.1.34.Body” Tcl command

* Post-Condition – The top of the graph moves down due to bigger top margin

Cleanup – Call the “graph.configure::RBC.graph.configure.1.34.Cleanup” command

**Test Procedure – Configure Topvariable (No idea how this works)**

**Test Case 1**

**Purpose –** Ensure configuring topvariable changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.35.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying.
* Body

1. Call the “graph.configure::RBC.graph.configure.1.35.Body” Tcl command

* Post-Condition – The top of the graph moves down due to bigger top margin

Cleanup – Call the “graph.configure::RBC.graph.configure.1.35.Cleanup” command

**Test Procedure – Configure Width**

**Test Case 1**

**Purpose –** Ensure configuring width changes on screen.

**Special Requirements –** None

**Script –** RBC.graph.configure.1.tcl

**Procedural Steps**

* Setup – Call the “graph.configure::RBC.graph.configure.1.36.Setup” Tcl command
* Pre-Condition – A blank graph window is displaying.
* Body

1. Call the “graph.configure::RBC.graph.configure.1.36.Body” Tcl command

* Post-Condition – The width of the graph shrinks to a slim horizontal distance

Cleanup – Call the “graph.configure::RBC.graph.configure.1.36.Cleanup” command