RV Custom view application.

RV Custom view application is build to have a customized view where user can interact and change the view thickness, border, background as per the need.

Along with the above capabilities RV Custom view application is designed to support the window resizing and utilizes Auto Layout to maintain the controls layouts even though user changes the window size.

Build Configuration:
• Xcode   : 7.2
• Build OS X   : 10.11
• SDK   : macosx10.11
• Minimum OS version : 10.11
• Application version   : 1.0

Technical Details:

RV Custom view application have following classes:
1) RVCustomView
2) RVWindowController
3) RVConstants
4) Main XIB

• RVCustomView: This class is a subclass of NSView and with the use of "drawRect:" and Core Graphics Api perform the View customization as per the user selected value.
As soon as user selected value through the controls provided in Toolbar the RVCustomView redraw the view by overriding the "drawRect:" Api.

• RVWindowController: This class controls the user interaction, takes the user input and pass those value to RVCustomView class to redraw the view as per the user input.

• RVConstant: This class define macro for all the integer or string constants used in the project to provide more readability to code.

• Main XIB:
This file has all the UI controls used in the application like Window, View, Buttons, Color well and each control comes with the self define "Tool tip".

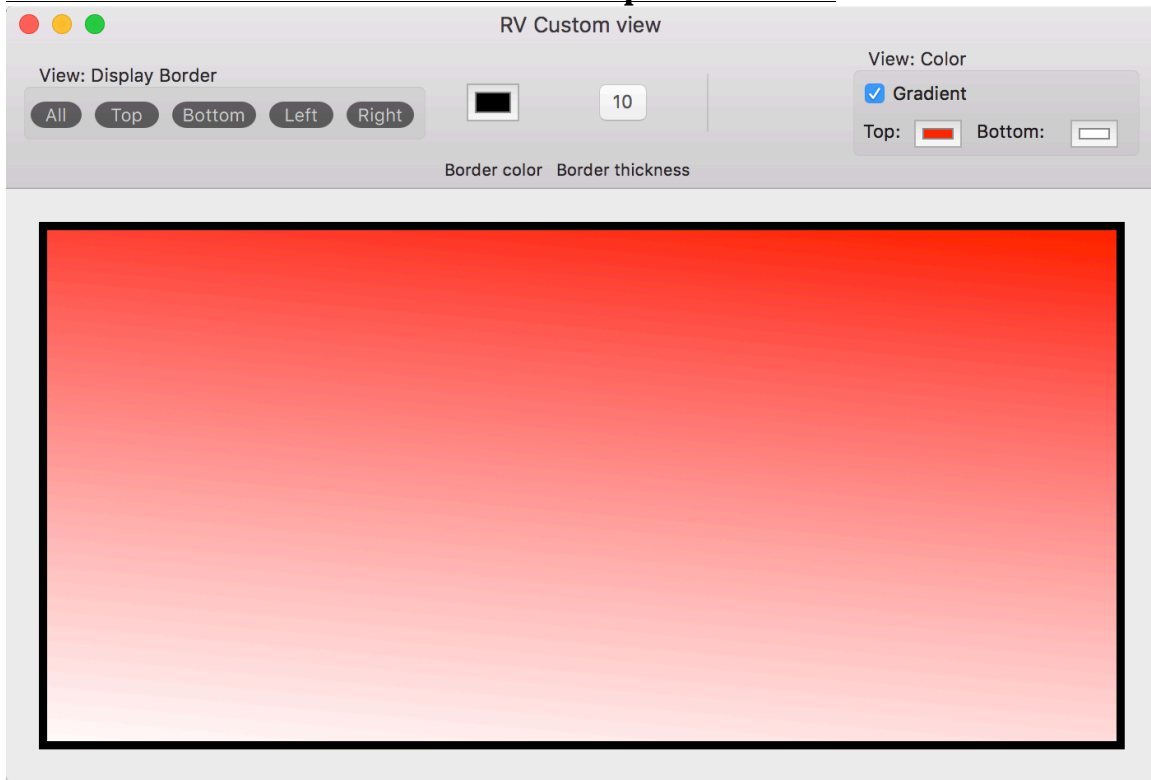# User interaction view and controls specification:
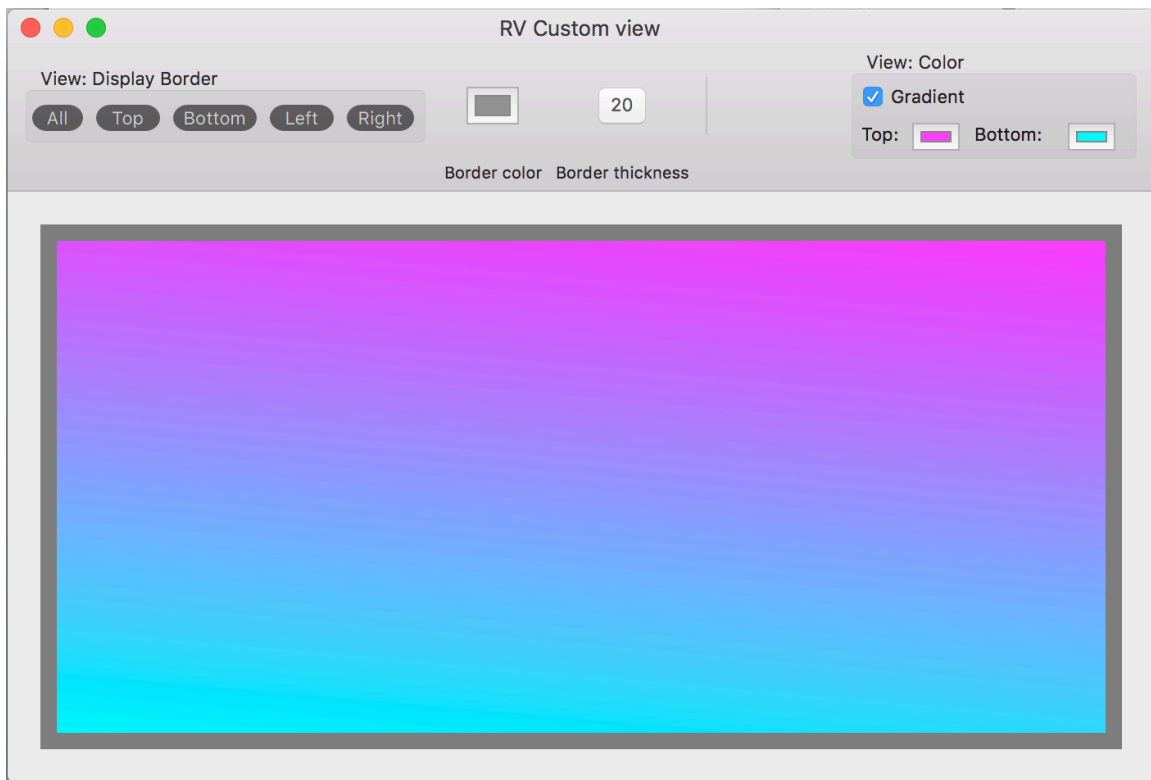

figure 1.0: Default View on launch

figure 2.0: Customize view after user changes value

UI Components

1) There is a Margin between view and window which remains constant during window resize.

2) View: Display Border : These controls comes with the toggle functionality to display the view border once at a time. Only one control will be applicable at a time.
Default value: All

3) Border color: This control provide capability to change the color of view border.
Default value: Black color

4) Border thickness: This control provide capability to change the thickness of view border.
Default value: 10
Minimum value: 0
Maximum value: 50

5) View Color: This box deals with the capability to change the background color of our view.
The view can have single color or a gradient.
- Gradient Check box
    - When checked the view background color will be gradient and combination of top and bottom color provided in controls.
    - When unchecked i.e Single; the view will have single color and both the top and bottom "color well" will have same color. Also the bottom "color well" will be disabled so that user cannot change the bottom color.
    - *Default Value: Checked*
- Top: This "color well" provides capability to set the top view color.
    - *Default value: Red color*
- Bottom: This "color well" provides capability to set the bottom view color.
    - Default Value: White color