Example Project Crosshair

Contents

1 Overview

In this project it is shown how to implement a crosshair object in the PClient, useful e.g. for setting / showing an 2D equilibrium in a system.

2 Details of the project

The visualisation contains of some String Fields with very high corner radius, making the white and gray section circles, two linear bargraphs with square size orthogonal to each other, and an SVG image which shows the blue frame. The bargraphs are not set to fill mode which results in just the lines moving.

The 2 top softkeys on each side will move the horizonal or vertical line by steps of 5. The center softkey resets both values to 50, bringing them into the middle. If the values are both between 45 and 55, the lines will be colored green, indicating that the center region has been reached.

One could extend this project by creating another circular String Field which movies with the crosshair, indicating the current position even better.

2.1 Scripts

2.1.1 init.js

This script is running on the event OnProjektInit. It sets both values to 50, the center point, and runs the crosshair_color script to make the lines green initially.

2.1.2 crosshair_color.js

This script is running on the events OnValueChangeByOwner of both value variables x_value and y_value. It checks if both values are between 45 and 55, if so, the foreground color of both bargraphs is set to green, otherwise to black.

2.1.3 UP/DOWN/LEFT/RIGHT.js

These scripts run on the softkey OnRelease events. They add/substract 5 from the current value of x_value/y_value, except if the maximum/minimum is reached.

2.1.4 CENTER.js

This script is running on the 3rd left softkey OnRelease event. It sets both values to 50, the center point.