LVGL official provided examples

Refer to https://docs.lvgl.io/master/examples.html
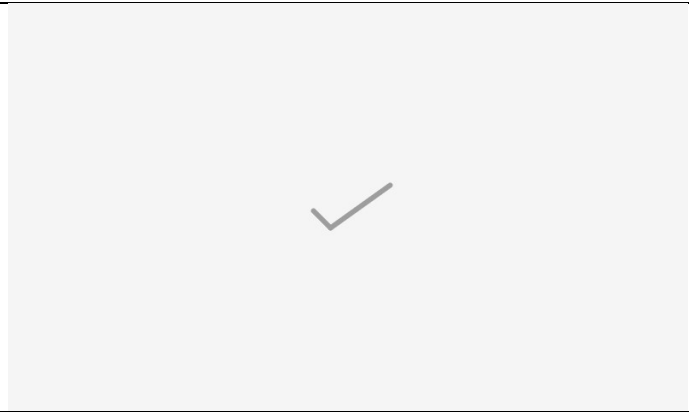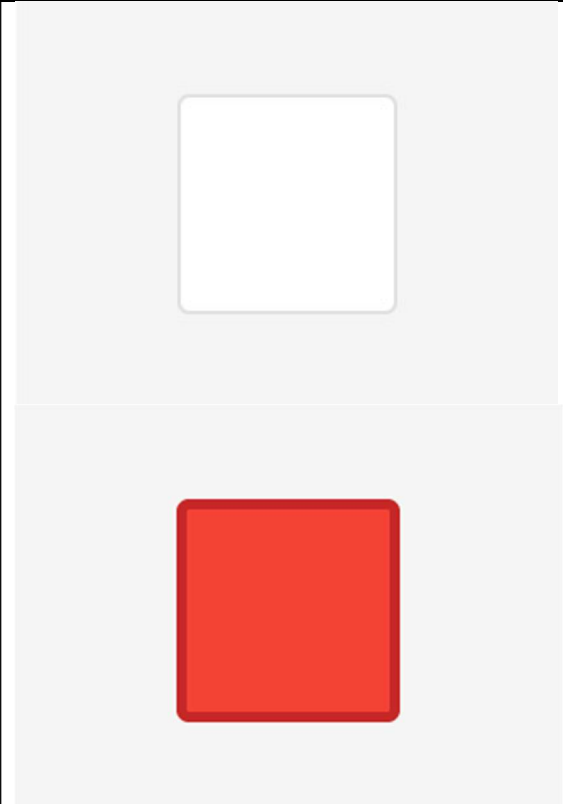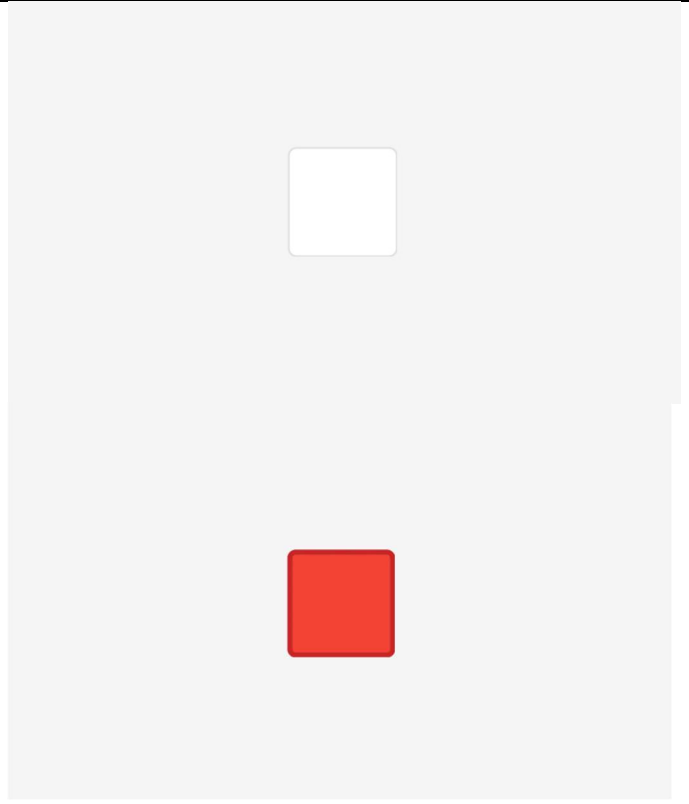
Environment: EVE simulator (BT816, 800x480)
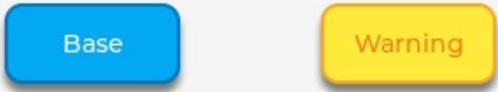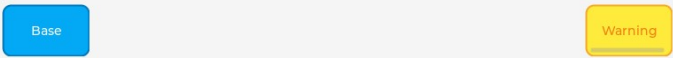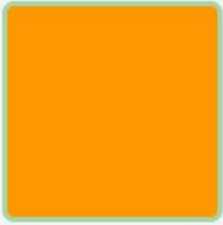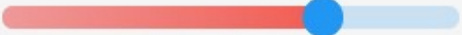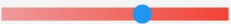
Result from LVGL	Result from EVE simulator
Get started	
A very simple *hello world* label	`lv_example_get_started_1()`
	Supported
A button with a label and react on click event	`lv_example_get_started_2()`
	Supported
Create styles from scratch for buttons	`lv_example_get_started_3()`
	Supported
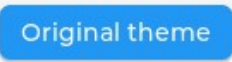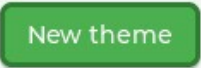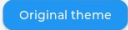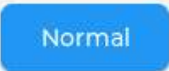
Create a slider and write its value on a label	`lv_example_get_started_4()`
	Supported
Style	
Size style	`lv_example_style_1()`
	Supported
Background styles	`lv_example_style_2()`
	Supported
Border styles	`lv_example_style_3()`
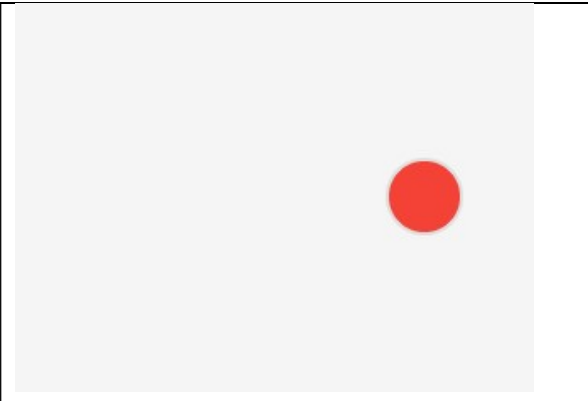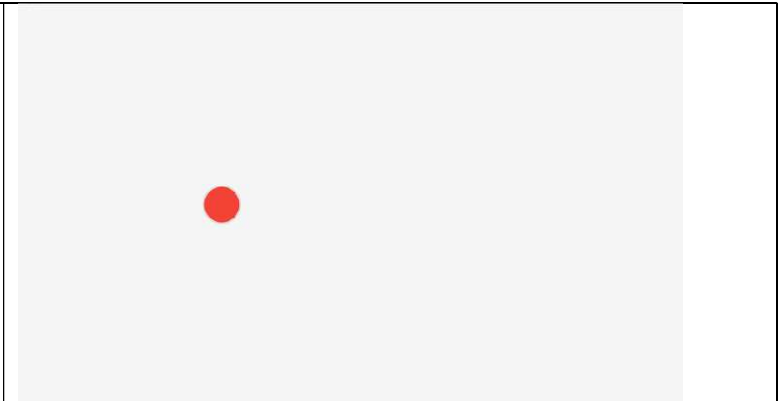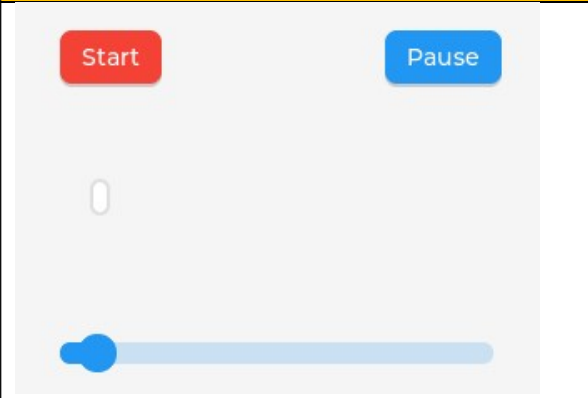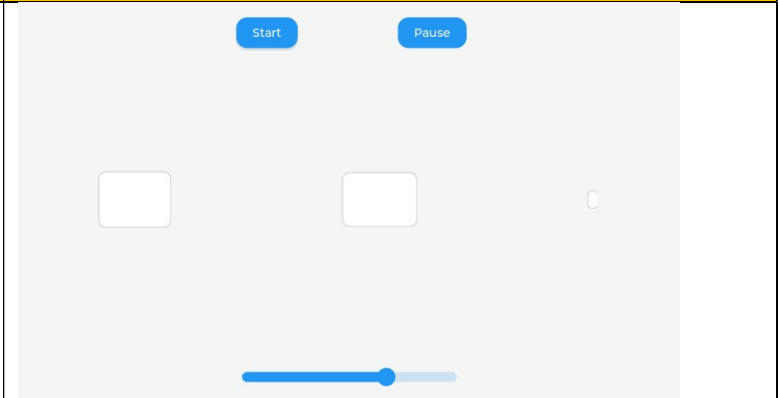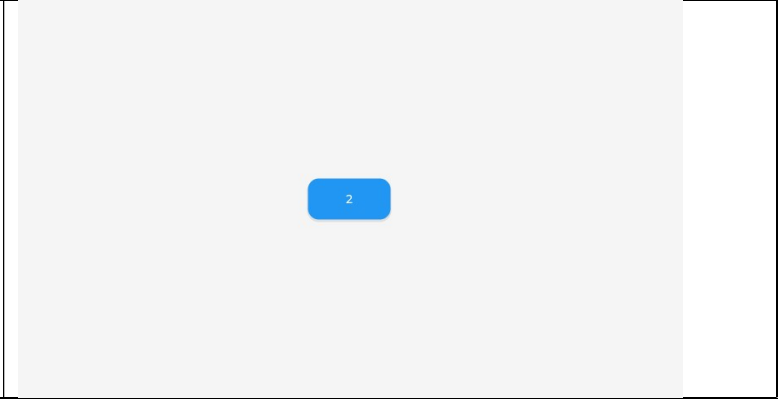
	supported
Outline styles	lv_example_style_4()
	supported
Shadow styles	lv_example_style_5()
	Partly supported, the shadow colour may need further debugging
Image styles	lv_example_style_6()
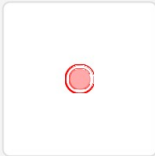
	Partly supported, no image rotation with outline
Arc styles	`lv_example_style_7()`
	Supported
Text styles	`lv_example_style_8()`
	Partly supported. Second line has issue, need to fix
Line styles	`lv_example_style_9()`
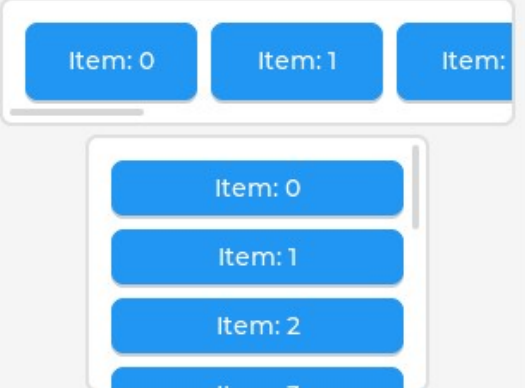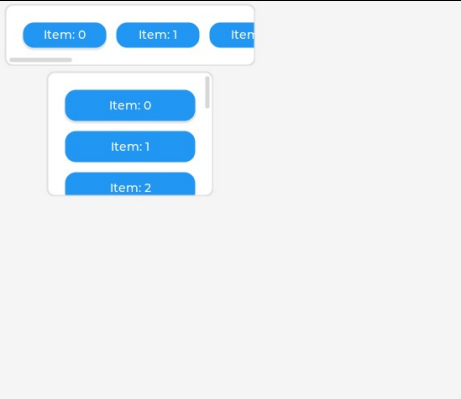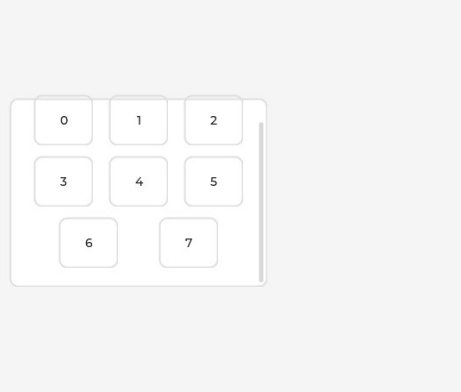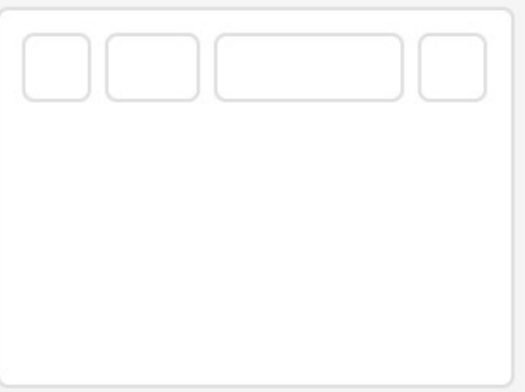
	supported
Transition	`lv_example_style_10()`
	supported
Using multiple styles	`lv_example_style_11()`
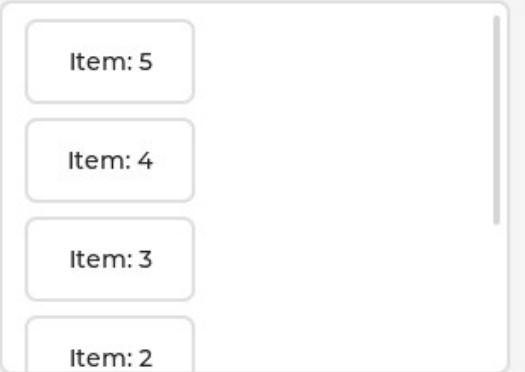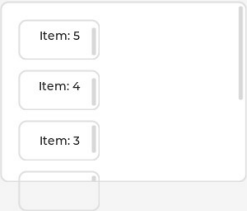
	Second button seems has scroll bar? Assume not an issue, need further investigate.
Local styles	`lv_example_style_12()`
	Supported
Add styles to parts and states	`lv_example_style_13()`
	Partly supported, no border radius, colour mistake
Extending the current theme	`lv_example_style_14()`
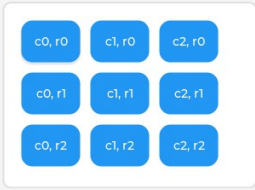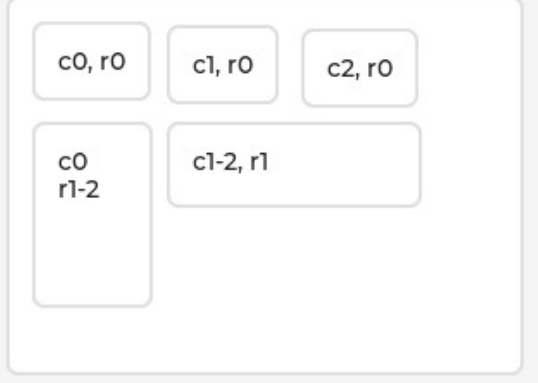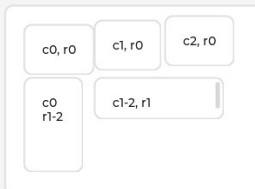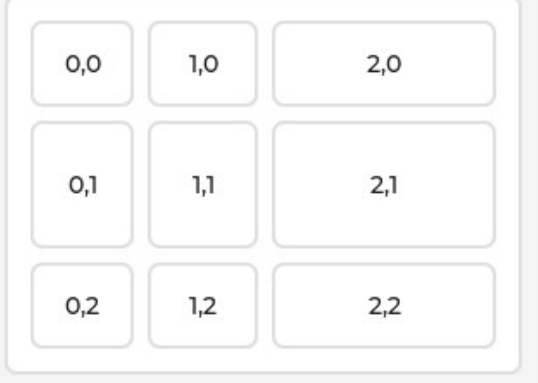
	Supported
Opacity and Transformations	`lv_example_style_15()`
	Partly supported, no rotation, size chan
Animations	
Start animation on an event	`lv_example_anim_1()`
	Supported
Playback animation	`lv_example_anim_2()`
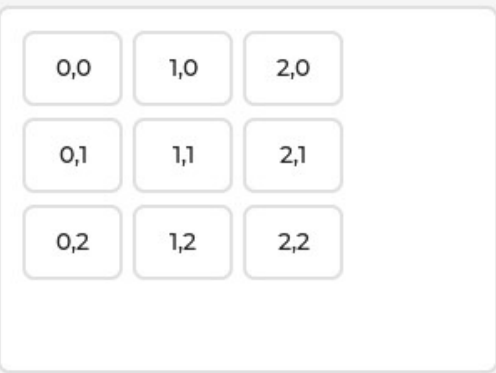
	Supported
Animation timeline	`lv_example_anim_timeline_1()`
	Supported, except shadow issue
Events	
Button click event	`lv_example_event_1()`
	Supported
Handle multiple events	`lv_example_event_2()`
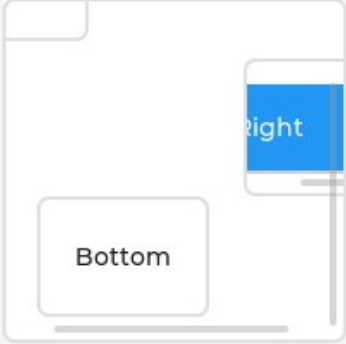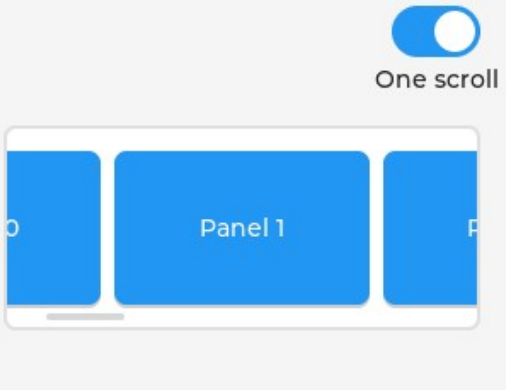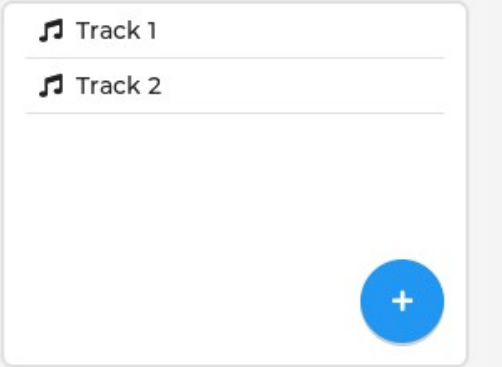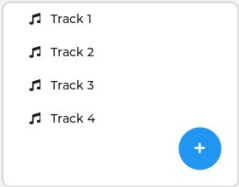
The last button event: LV_EVENT_CLICKED Click me!	 Click me!
	Supported
Event bubbling	`lv_example_event_3()`
0 1 2 3 4 5 6 7 8	0 1 2 3 4 5 6 7 8
	Supported, except shadow issue
Draw event	`lv_example_event_4()`
◎	●
	Partly supported, the cycle seems not so good
Layouts	
Flex	
A simple row and a column layout with flexbox	`lv_example_flex_1()`

	Partly supported, the shadow is not correct
Arrange items in rows with wrap and even spacing	`lv_example_flex_2()`
	Partly supported, the button may go outside of the box
Demonstrate flex grow	`lv_example_flex_3()`
	Partly supported, show scroll bar?
Demonstrate flex grow.	`lv_example_flex_4()`
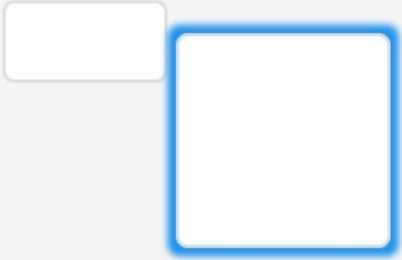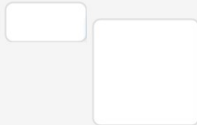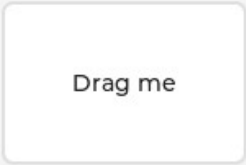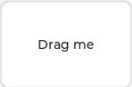
	Partly supported, the button may go outside of the box and show scroll bar
Demonstrate column and row gap style properties	`lv_example_flex_5()`
	Supported
RTL base direction changes order of the items	`lv_example_flex_6()`
	Partly supported, the button may go outside of box
Grid	
A simple grid	`lv_example_grid_1()`

	Supported, except shadow issue
Demonstrate cell placement and span	`lv_example_grid_2()`
	Partly supported, the position is not correct
Demonstrate grid's -free unit-	`lv_example_grid_3()`
	Partly supported, show scroll bar?
Demonstrate track placement	`lv_example_grid_4()`
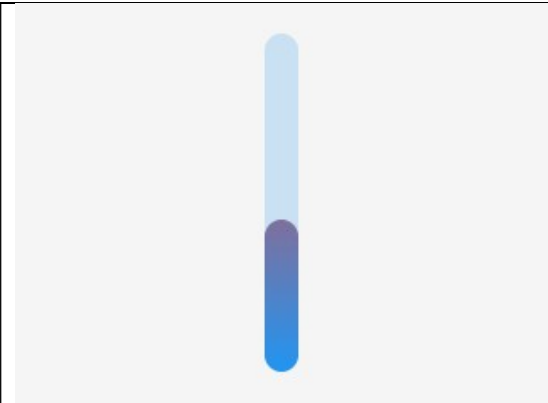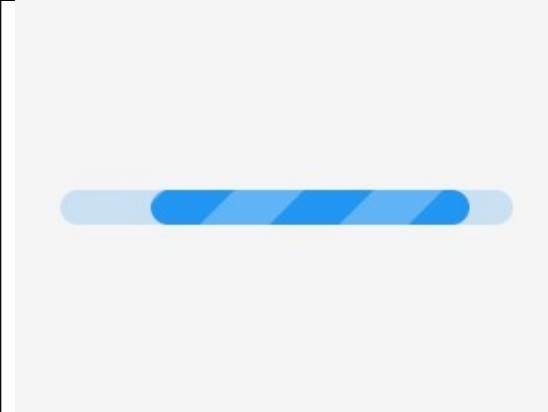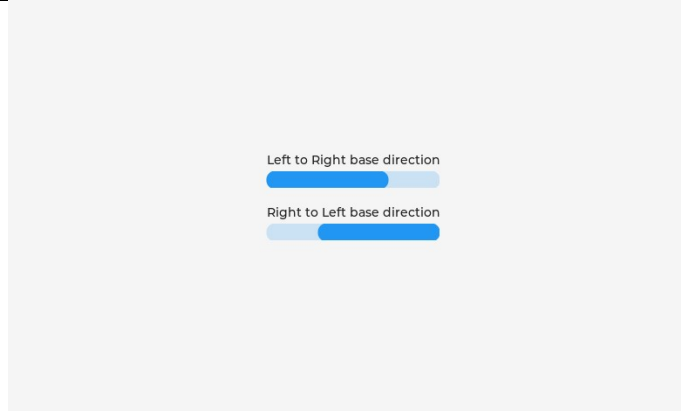
	Partly supported, show scroll bar?
Demonstrate column and row gap	`lv_example_grid_5()`
	Partly supported, show scroll bar?
Demonstrate RTL direction on grid	`lv_example_grid_6()`
	Partly supported, show scroll bar?
Scrolling	
Nested scrolling	`lv_example_scroll_1()`
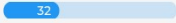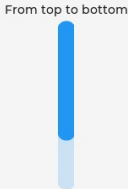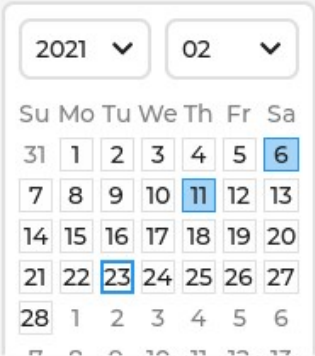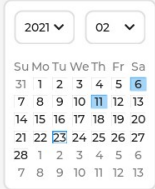
	Partly supported, button may go outside of the box
Snapping	`lv_example_scroll_2()`
	Supported, except shadow issue
Floating button	`lv_example_scroll_3()`
	Supported, except no underline
Styling the scrollbars	`lv_example_scroll_4()`
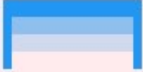
	Not supported, the scroll bar is not correct
Right to left scrolling	`lv_example_scroll_5()`

	Not tested
Translate on scroll	`lv_example_scroll_6()`

	Not supported
Widgets	
Base object	
Base objects with custom styles	`lv_example_obj_1()`

	Partly supported, shadow is not correct
Make an object draggable	`lv_example_obj_2()`

	Supported

Arc

Simple Arc	`lv_example_arc_1()`

	Supported, except the end of arc
Loader with Arc	`lv_example_arc_2()`

	Supported
Bar	
Simple Bar	`lv_example_bar_1()`

	Supported
Styling a bar	`lv_example_bar_2()`

	Supported
Temperature meter	`lv_example_bar_3()`
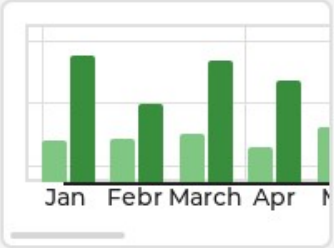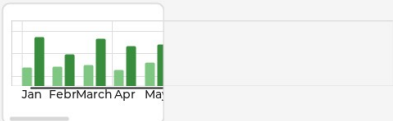
	Not supported
Stripe pattern and range value	`lv_example_bar_4()`
	Not supported
Bar with LTR and RTL base direction	`lv_example_bar_5()`
	Supported
Custom drawer to show the current value	`lv_example_bar_6()`
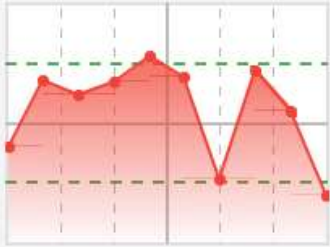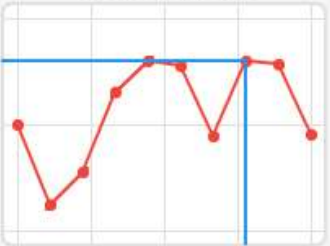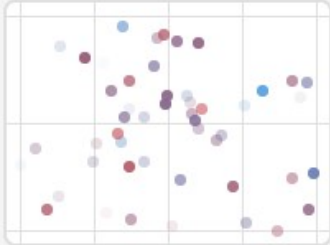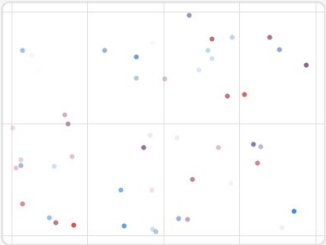
	Supported
Bar with opposite direction	`lv_example_bar_7()`
	From top to bottom
	Supported
Calendar	
Calendar with header	`lv_example_calendar_1()`
	Partly supported, display list will overflow when change date, and disable some display effect such as border will disable some functions on calendar
Canvas	
Drawing on the Canvas and rotate	`lv_example_canvas_1()`

	Not supported
Transparent Canvas with chroma keying	`lv_example_canvas_2()`
	Supported
Draw a rectangle to the canvas	`lv_example_canvas_3()`
	Not supported
Draw a label to the canvas	`lv_example_canvas_4()`
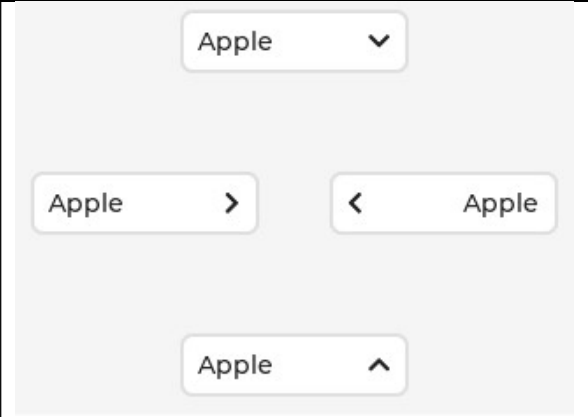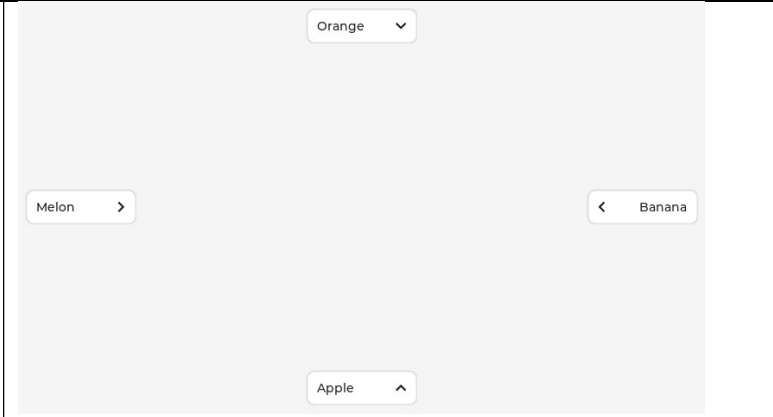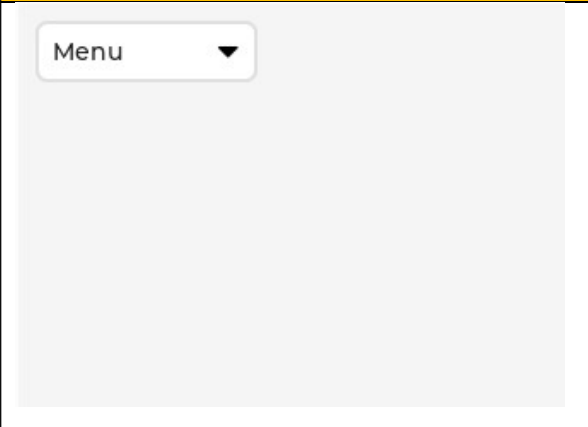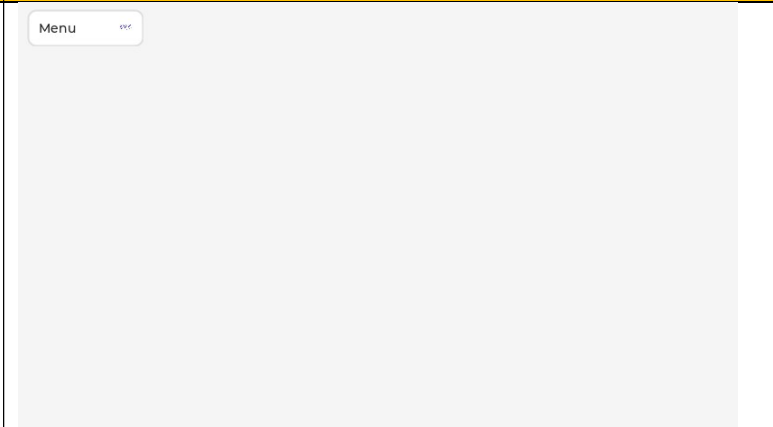
	Not supported
Draw an arc to the canvas	`lv_example_canvas_5()`
	Not supported
Draw an image to the canvas	`lv_example_canvas_6()`
	Assume not supported, since no action on official website
Draw a line to the canvas	`lv_example_canvas_7()`
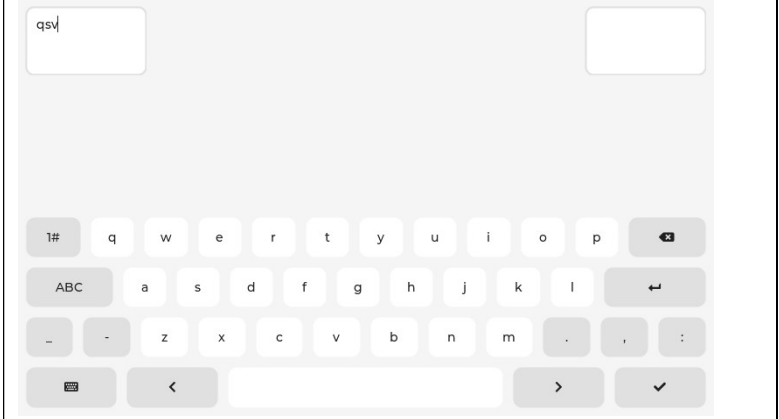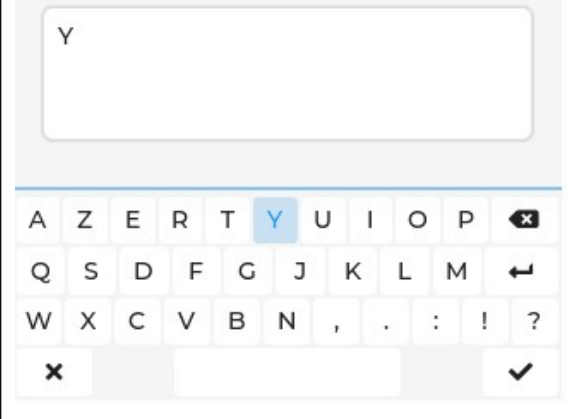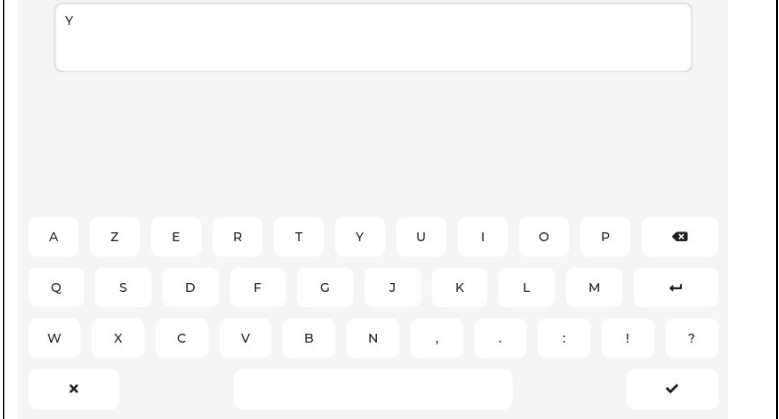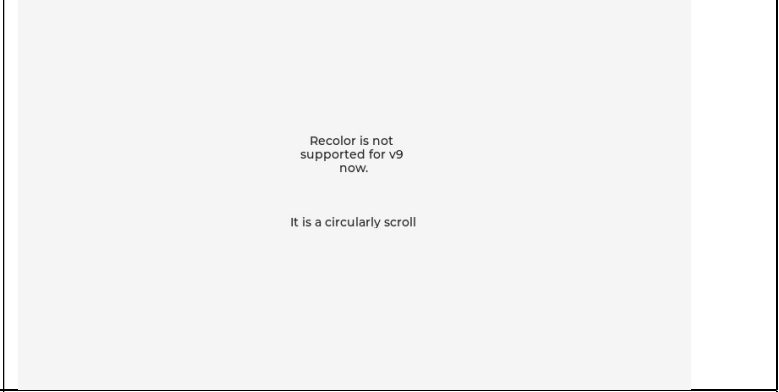
	Not supported
Draw a vector graphic to the canvas	`lv_example_canvas_8()`
Vector graphics is not enabled	
	Assume not supported, since no action on official website
Chart	
Line Chart	`lv_example_chart_1()`
	Supported
Axis ticks and labels with scrolling	`lv_example_chart_2()`

	Supported, except the chart outline will go outside of box
Show the value of the pressed points	`lv_example_chart_3()`
	Supported
Recolor bars based on their value	`lv_example_chart_4()`
	Not tested
Faded area line chart with custom division lines	`lv_example_chart_5()`

	Not tested
Show cursor on the clicked point	`lv_example_chart_6()`

	Supported
Scatter chart	`lv_example_chart_7()`

	Supported
Checkbox	
Simple Checkboxes	`lv_example_checkbox_1()`

	Supported
Checkboxes as radio buttons	`lv_example_checkbox_2()`
	Supported, except that the buttons are not so nice
Dropdown	
Simple Drop down list	`lv_example_dropdown_1()`
	Supported
Drop down in four directions	`lv_example_dropdown_2()`

	Supported
Menu	`lv_example_dropdown_3()`
	Partly supported, the triangle is not correctly showed
Image	
Image button	`lv_example_imagebutton_1()`
	Not supported
Keyboard	
Keyboard with text area	`lv_example_keyboard_1()`
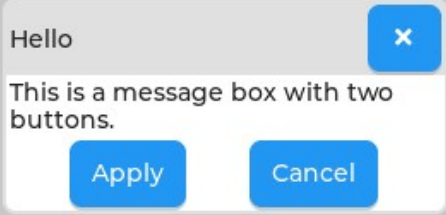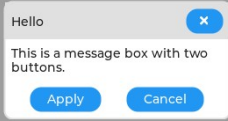
	Supported

Keyboard with custom map	`lv_example_keyboard_2()`
	Partly supported, no highlight

Label	
Line wrap, recoloring and scrolling	`lv_example_label_1()`
	Supported

Text shadow	`lv_example_label_2()`
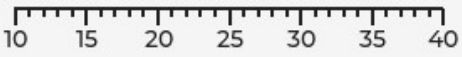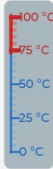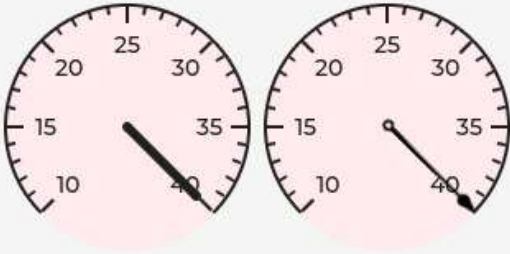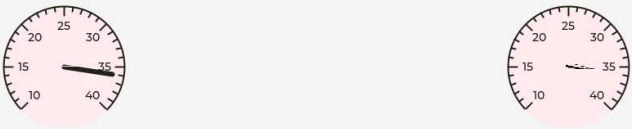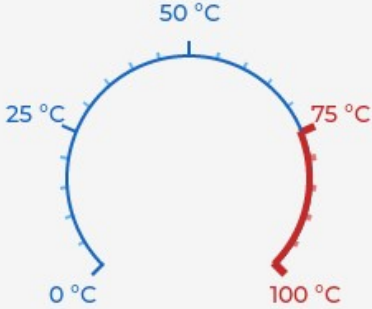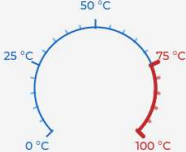
	Supported
Show LTR, RTL and Chinese texts	`lv_example_label_3()`
	Supported
Draw label with gradient color	`lv_example_label_4()`
	Assume not supported, since no action on official website
Customize circular scrolling animation	`lv_example_label_5()`
	Supported
LED	
LED with custom style	`lv_example_led_1()`
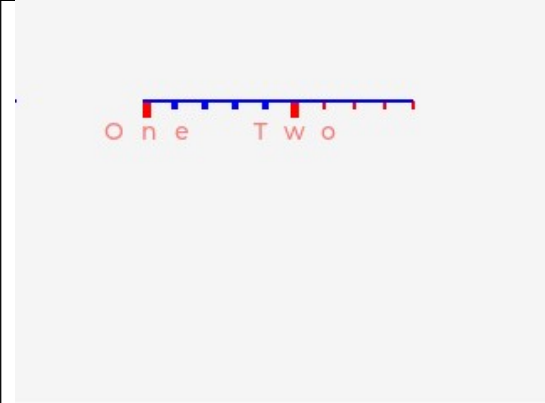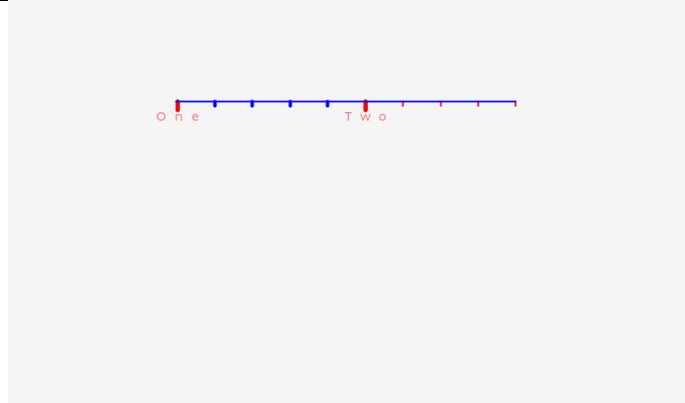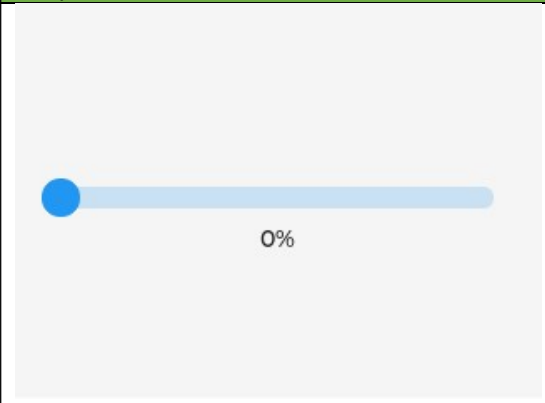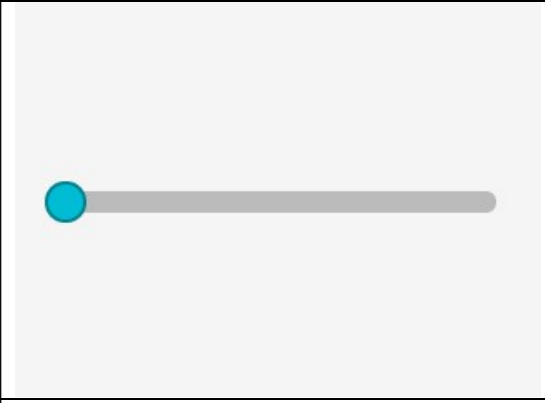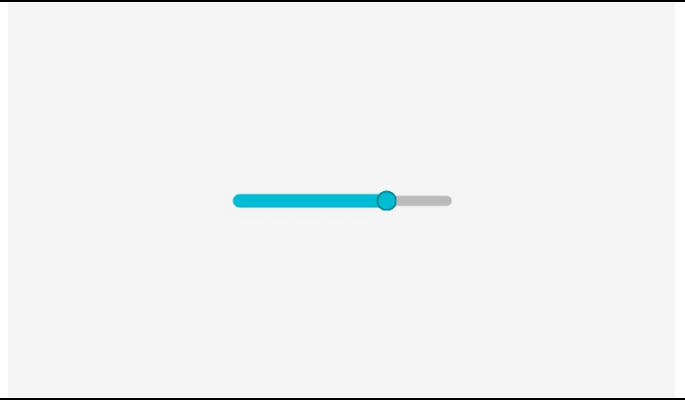
	Partly supported, display effect is not so nice
Line	
Simple Line	`lv_example_line_1()`

	Supported
List	
Simple List	`lv_example_list_1()`

	Partly supported, missing underline
Sorting a List using up and down buttons	`lv_example_list_2()`
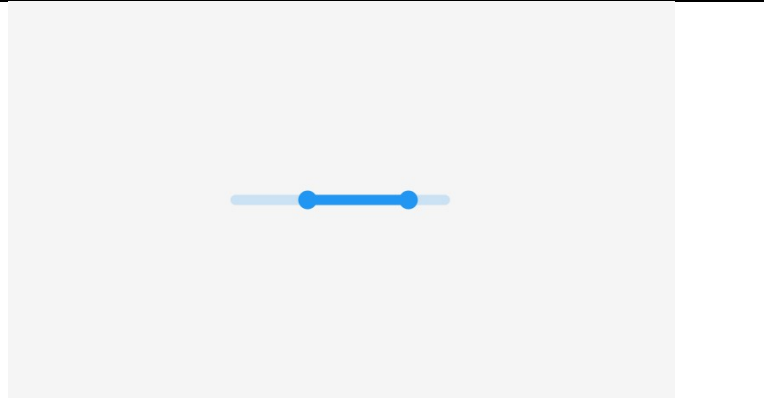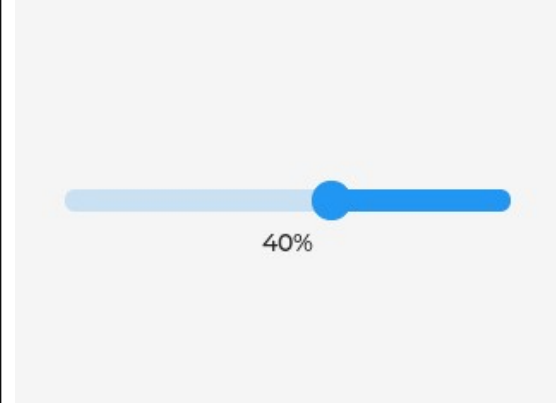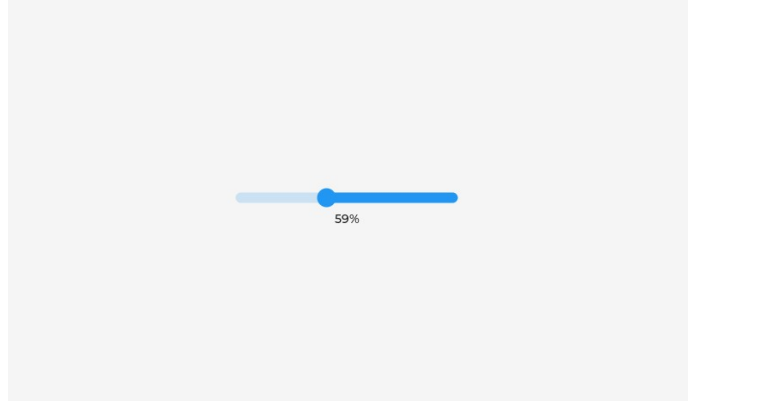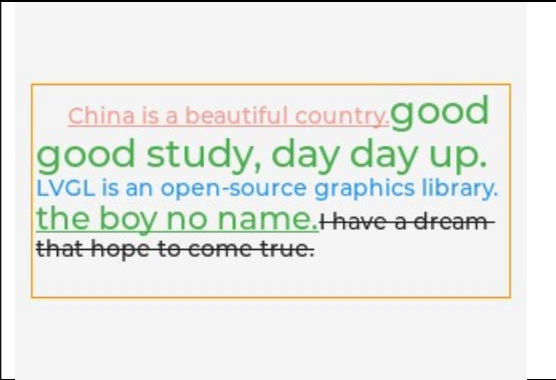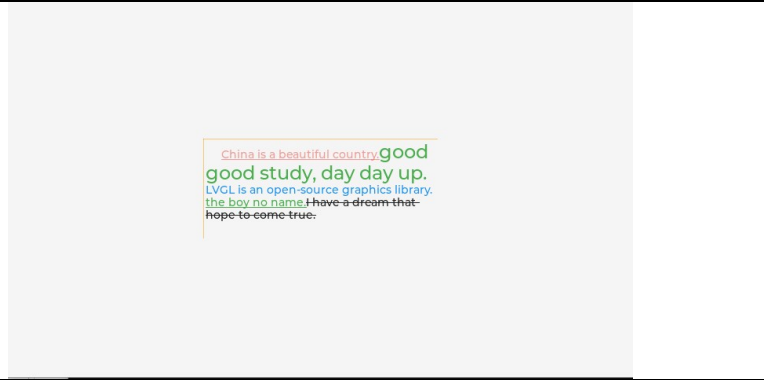
	Partly supported, missing underline, shadow issue

Menu	
Simple Menu	`lv_example_menu_1()`
Item 1 Item 2 Item 3 (Click me!)	Item 1 Item 2 Item 3 (Click me!)
	Supported
Simple Menu with root btn	`lv_example_menu_2()`
‹ Item 1 Item 2 Item 3 (Click me!)	‹ Item 1 Item 2 Item 3 (Click me!)
	Supported
Simple Menu with custom header	`lv_example_menu_3()`
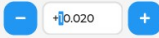
Item 1 (Click me!) Item 2 (Click me!) Item 3 (Click me!)	Item 1 (Click me!) Item 2 (Click me!) Item 3 (Click me!)
	Supported

Simple Menu with floating btn to add new menu page	`lv_example_menu_4()`
Item 1 Item 2 +	Item 1 Item 2 +
	Supported

Complex Menu	`lv_example_menu_5()`
< Settings ⚙ lechar ♫ Sou ⚙ Display Others About ⚙ mode Velocity ⚙ ——————● Acceleration ⚙ ——●———— Weight limit ⚙ ————●——	< Settings ⚙ Mechanics ♫ Sound ⚙ Display Others About ⚙ Menu mode Velocity ⚙●———————— Acceleration ⚙ ————●—— Weight limit ⚙ —————●—
	Supported

Message box	
Simple Message box	`lv_example_msgbox_1()`
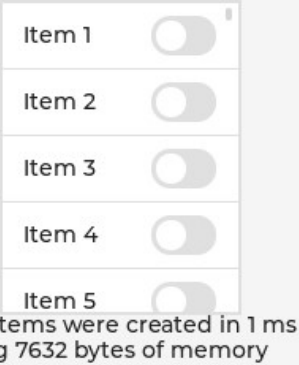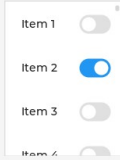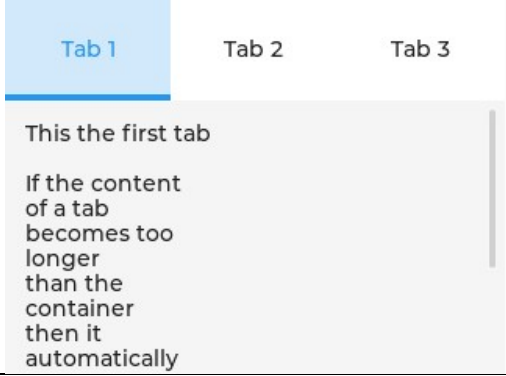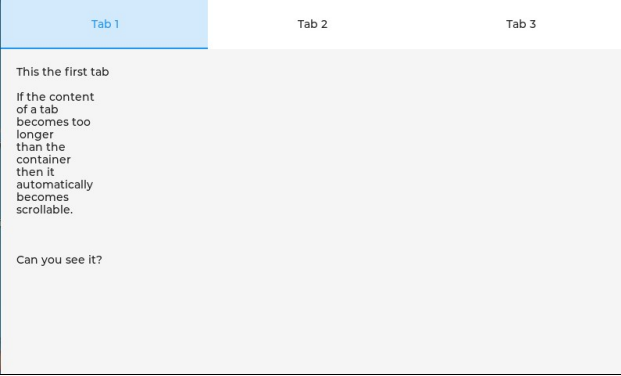
	Supported
Roller	
Simple Roller	`lv_example_roller_1()`
	Supported
Styling the roller	`lv_example_roller_2()`
	Supported
add fade mask to roller	`lv_example_roller_3()`
	Assume not supported, since no action on official website
Scale	
	`lv_example_scale_1()`
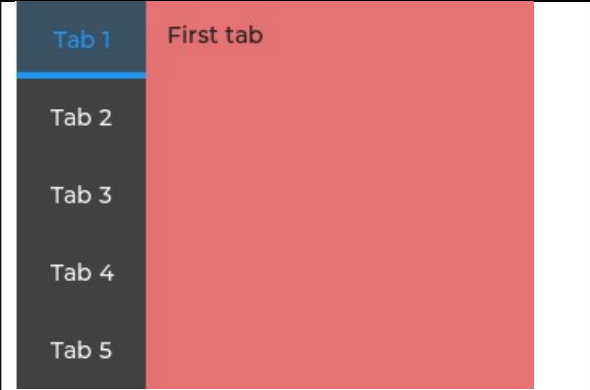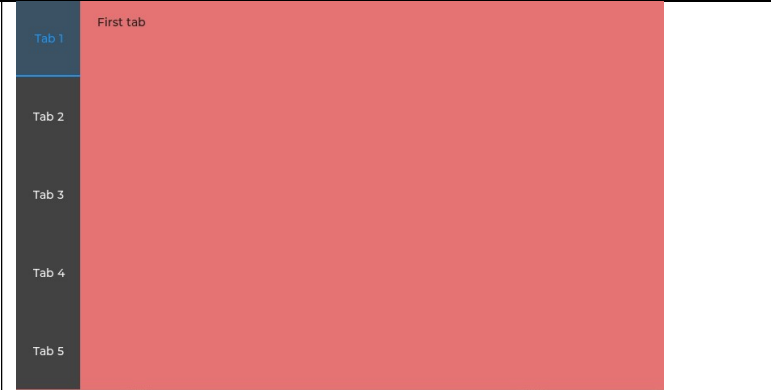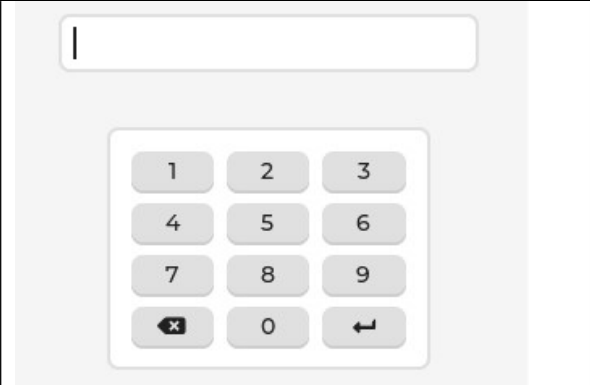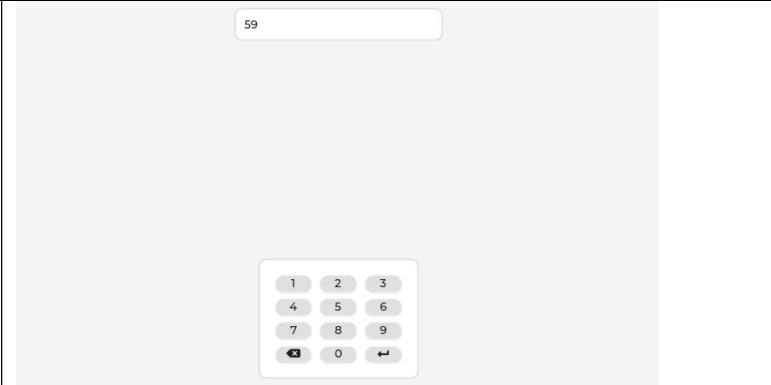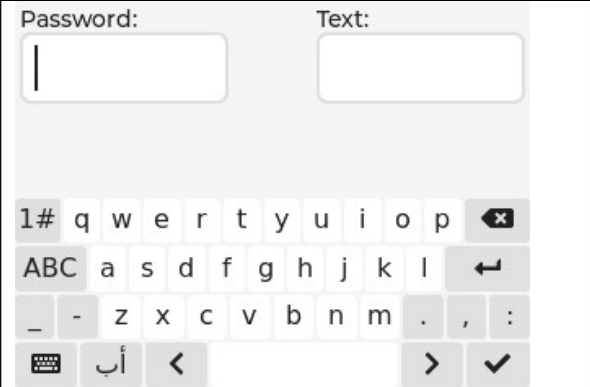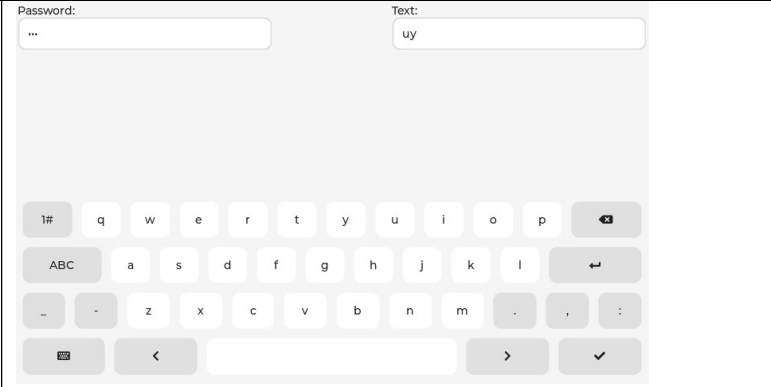
	Supported
	`lv_example_scale_2()`

	Supported
	`lv_example_scale_3()`

	Partly supported, second pointer has issue
	`lv_example_scale_4()`

	Supported
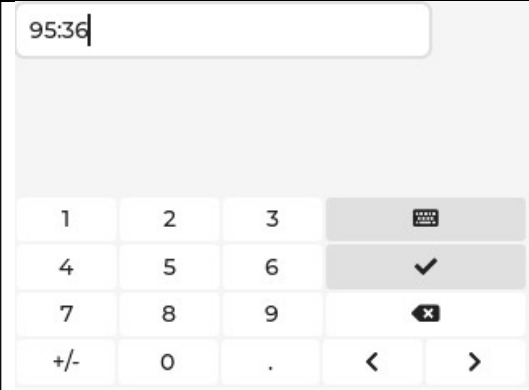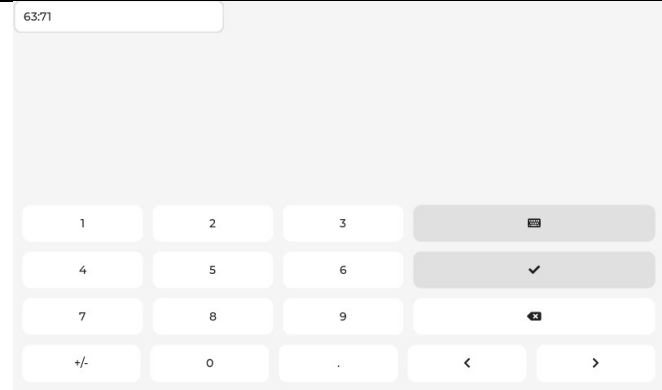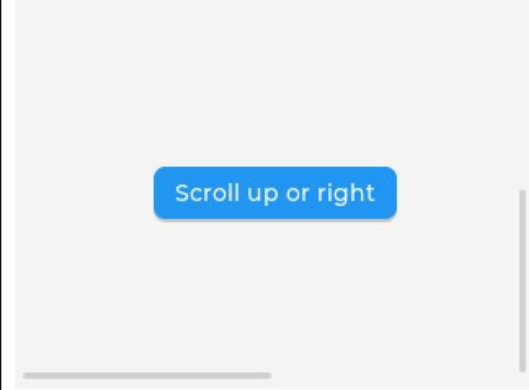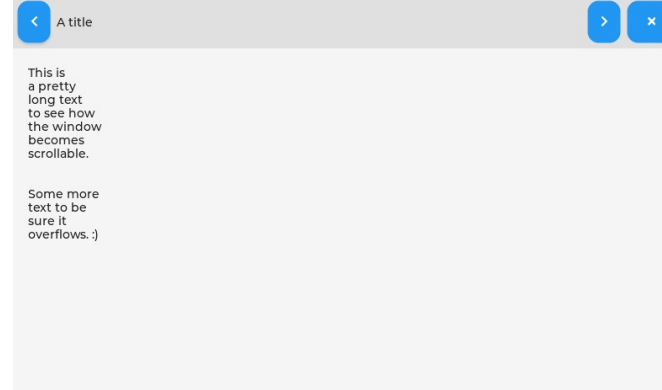
	lv_example_scale_5()
	Supported

Slider

Simple Slider	lv_example_slider_1()
	Supported

Slider with custom style	lv_example_slider_2()
	Supported

| Slider with extended drawer | lv_example_slider_3() |

	Supported
Slider with opposite direction	`lv_example_slider_4()`
	Supported
Span	
Span with custom styles	`lv_example_span_1()`
	Partly supported, the box is not fully show
Spinbox	
Simple Spinbox	`lv_example_spinbox_1()`

	Supported

Spinner

Simple spinner	`lv_example_spinner_1()`
	Supported

Switch

Simple Switch	`lv_example_switch_1()`
	Supported

Table

Simple table	`lv_example_table_1()`

	Supported
Lightweighted list from table	lv_example_table_2()
	Supported
Tabview	
Simple Tabview	lv_example_tabview_1()
	Supported
Tabs on the left, styling and no scrolling	lv_example_tabview_2()

	Supported

Textarea

Simple Text area	`lv_example_textarea_1()`

	Supported

Text area with password field	`lv_example_textarea_2()`

	Supported

Text auto-formatting	`lv_example_textarea_3()`

95:36	63:71
	Supported
Tileview	
Tileview with content	`lv_example_tileview_1()`
Scroll up or right	
	Not supported
Window	
Simple window	`lv_example_win_1()`
A title — This is a pretty long text to see how the window becomes scrollable. Some more	A title — This is a pretty long text to see how the window becomes scrollable. Some more text to be sure it overflows. :)
	Supported
	`lv_example_anim_3()`

	Need to remove shadow, otherwise DL will overflow

Summary:

Unsupported cases:

1. Rotation is solely applicable to images and does not extend to other objects like buttons or images with an outline.
2. The functionality of the canvas is not available.

For cases with partial support, the following issues may be addressed in a future release:

1. In the current version, shadows appear to function only for a single object. If multiple objects are present, the shadows do not display correctly.
2. Scroll bars are observed more frequently in EVE's settings, prompting the need for further investigation.
3. There exists a layout problem wherein certain objects extend beyond the outer box boundaries.
4. The lines separating two lines of text are not visible.

examples

■ supported ■ partly supported ■ not supported