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Graphical_Front_End_Dev
import controlP5.*; // Import controlP5 library
ControlP5 controlP5; // ControlP5 object
PFont f; // Declare PFont variable
void setup()
size(380,260); // Output window size (length x breadth)
smooth();
f = createFont("Arial",16,true); // Create Font
controlP5 = new ControlP5(this);
// Description: A bang controller triggers an event when pressed.
// Parameters: name, x, y, width, height
controlP5.addBang("bang1", 10, 10, 20, 20);
// Description : A button executes after release.
// Parameters : name, value (float), x, y, width, height
controlP5.addButton("button1", 1, 70, 10, 60, 20);
// Description : A toggle can have two states, TRUE and FALSE where TRUE has the value 1 and FALSE
has the value 0.
// Parameters : name, default value (boolean), x, y, width, height
controlP5.addToggle("toggle1", false, 170, 10, 20, 20);
// Description : A slider is either used horizontally or vertically.
// Parameters : name, minimum, maximum, default value (float), x, y, width, height
controlP5.addSlider("slider1", 0, 255, 128, 10, 80, 10, 100); // Width is bigger, you get a horizontal slider.
controlP5.addSlider("slider2", 0, 255, 128, 70, 80, 100, 10); // Height is bigger, you get a vertical slider.
// Description : Round turning dial knob.
// parameters : name, minimum, maximum, default value (float), x, y, diameter
controlP5.addKnob("knob1", 0, 360, 30, 70, 120, 50);
void draw()
background(0); // Set background color to black
textFont(f,16); // Specify font to be used
fill(255); // Specify font color
text("Bang", 20, 250);
text("Button", 60, 250);
text("Toggle", 110, 250);
text("Slider1", 170, 250);
text("Slider2", 240, 250);
text("Knob", 310, 250);
```

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text(controlP5.getController("bang1").getValue(), 10, 230);
text(controlP5.getController("button1").getValue(), 60, 230);
text(controlP5.getController("toggle1").getValue(), 110, 230);
text(controlP5.getController("slider1").getValue(), 160, 230);
text(controlP5.getController("slider2").getValue(), 230, 230);
text(controlP5.getController("knob1").getValue(), 300, 230);
}

void controlEvent(ControlEvent theEvent)
{
/* Events triggered by controllers are automatically forwarded to the controlEvent method.

By checking the name of a controller one can distinguish which of the controllers has been changed. */
/* Check if the event is from a controller, otherwise you'll get an error when clicking other interface elements like Radio button that don't support the controller() methods. */
if(theEvent.isController())
{
    print("control event from: "+theEvent.getController().getName());
    println(", value: "+theEvent.getController().getValue());
}
}
```