LORRIS TOOLBOX

Microprocessor Application Development Kit

http://tasssadar.github.io/Lorris

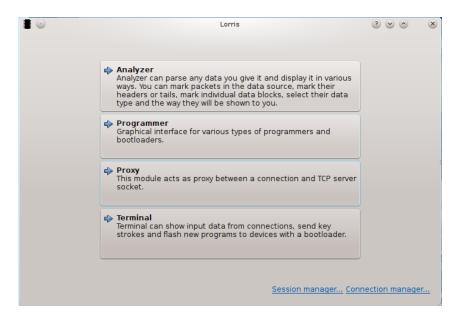


Figure 1: Tab creation dialog

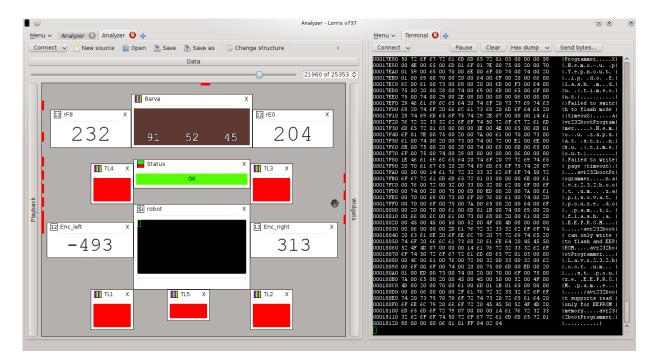


Figure 2: Lorris' window divided to multiple parts

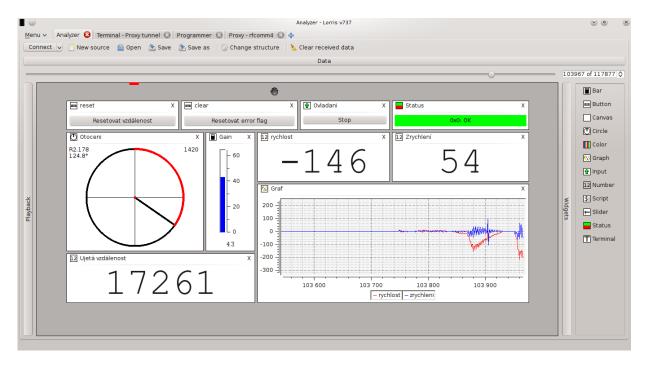


Figure 3: Analyzer module

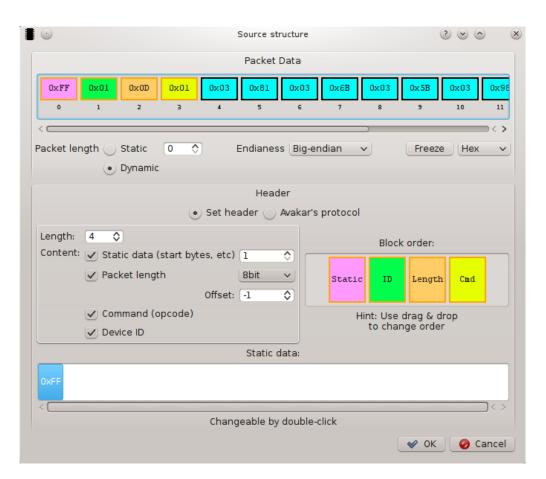


Figure 4: Analyzer: packet structure dialog

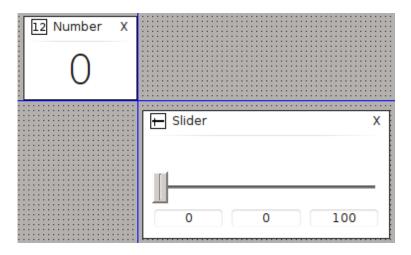
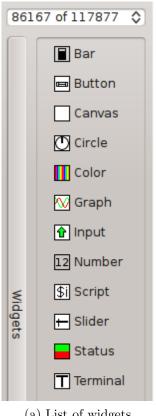
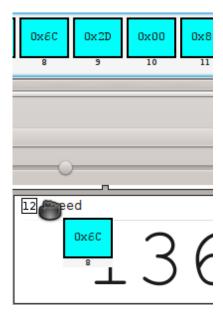


Figure 5: Analyzer: widget alignment using grid and lines



(a) List of widgets



(b) Assigning data using drag&drop

Figure 6: **Analyzer:** widgets

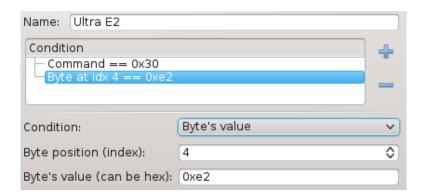


Figure 7: Analyzer: data filter settings

```
// Return true if passes, false if it
// should be filtered out
function dataPass(data, dev, cmd) {
   return false;
}
```

Code sample 1: Analyzer: data filter script condition

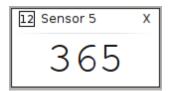


Figure 8: Analyzer: widget number

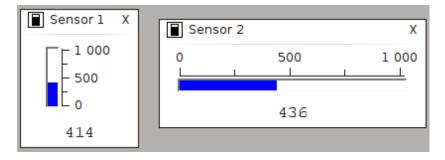


Figure 9: Analyzer: widget bar



Figure 10: Analyzer: widget color

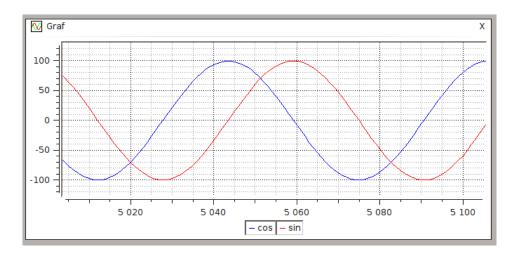


Figure 11: Analyzer: widget graph

```
$i Script
                                                                                                98 2 C1 3 2E C6 8E 0 B6 BE
97 2 C0 3 2E F0 87 0 2E 58
98 2 C0 3 2E C8 7D 0 63 0
98 2 C0 3 2E 76 7A 0 F3 63
98 2 C1 3 2E CA 6C 0 B5 42
98 2 C1 3 2E 78 69 0 C9 AE
98 2 C1 3 2E F4 65 0 5D DD
F8 3 DA 3 D6 C6 69 2 53 CA
                                                                         2 B3 2
2 B3 2
2 B3 2
2 B4 2
2 B3 2
2 B3 2
2 B3 2
3 CF 3
                                                       2 E5
2 E6
2 E6
2 E6
2 E6
2 E6
2 E6
3 E7
                                           F
                                                 1
                                                                                                                                                                                      42
AE
                                                 1
  10937:
                         FF
                                          F
 10902:
                                          F
                                                                                                                                                                            5D DD
                                                                         3 CF 3 F8 3 DA 3 D6 C6 69 2
3 CF 3 F8 3 DA 3 D6 C6 69 2
                                                 1
                                                                                                                                                                                      CA
                                                        3 E7
                                                                                                                                                                            53 CA
```

Figure 12: Analyzer: widget script

```
Script - Lorris v737
                                                                                             \bigcirc
                                                                                                          X
  Menu ∨ Script 🔕 🚓
                                                         Documentation
              const
    2
          var SMSG_SET_MOTOR_POWER = 0x04;
          var SMSG_SET_SERVO_VAL = 0x10;
    4
5
6
7
8
          var SMSGPING = 0x01;
          var DEVICE_ID = 0x01;
          fake error
    9
   10
          var joystick = null;
   11
   12
          var refreshInput = newInputWidget("vstup", 100, 70, -370, 0);
   13
          var refresh = refreshInput.newWidget("QPushButton", 1);
   14
          var input = newInputWidget("vstup", 250, 170, -260, 0);
var combo = input.newWidget("QComboBox");
var maxSpeedL = input.newWidget("QLabel", 1);
   15
   16
   17
          var maxSpeed = input.newWidget("QSpinBox");
var turnSpeedL = input.newWidget("OLabel"...
   18
  SyntaxError: Parse error on line 8
   Show errors (1)
```

Figure 13: Analyzer: widget script: editor

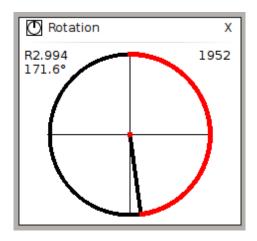


Figure 14: Analyzer: widget circle

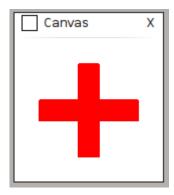


Figure 15: Analyzer: widget canvas

```
Canvas.setLineColor("red");
Canvas.setFillColor("red");
// x, y, width, height
Canvas.drawRect(55, 10, 20, 110);
Canvas.drawRect(10, 55, 110, 20);
```

Code sample 2: Analyzer: widget canvas: drawing to widget from script

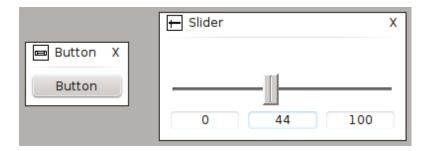


Figure 16: Analyzer: widgets button and slider

```
function Slider_valueChanged() {
    appendTerm("Slider value: " + Slider.getValue() + "\n");
}

function Button_clicked() {
    appendTerm("Button clicked\n");
}
```

Code sample 3: Analyzer: widget slider and button callbacks in script

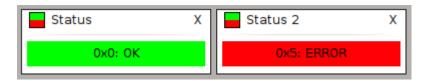


Figure 17: Analyzer: widget status

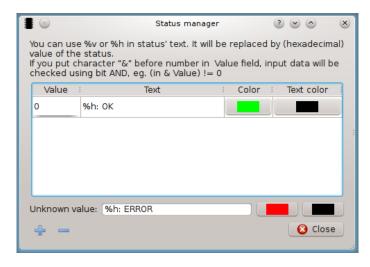


Figure 18: Analyzer: widget status: state definitions dialog

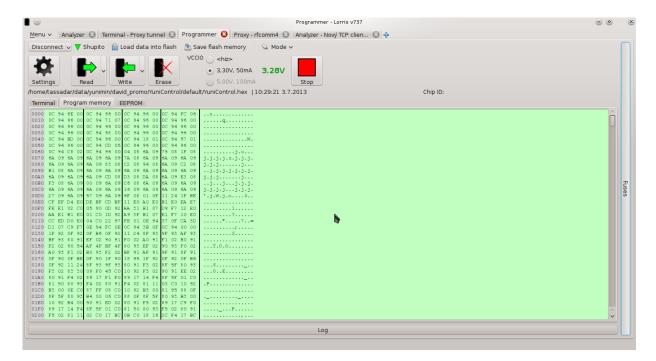


Figure 19: **Programmer** module

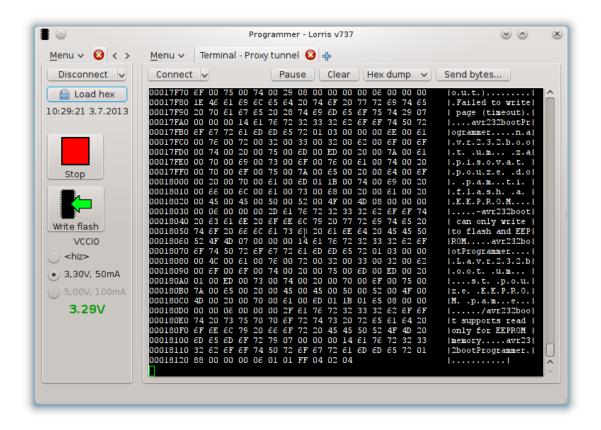


Figure 20: **Programmer:** minimal interface (left) along with terminal (right)

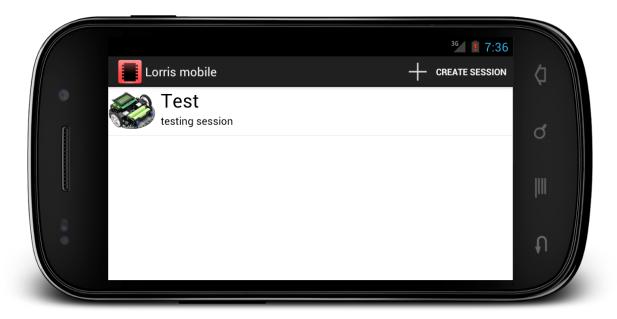


Figure 21: Lorris mobile: session selection



Figure 22: Lorris mobile: terminal



Figure 23: Lorris mobile: programmer