
. Documentation

Release

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Contents:

EUROBOT PACKAGE

1.1 Subpackages

1.1.1 Eurobot.gui package

Submodules

Eurobot.gui.communication module

```
class Eurobot.gui.communication.CanTableControl
    Bases: PyQt4.QtGui.QWidget
        add_data (msg_frame)
        change_typ_filter ()
        run_button_clicked ()

class Eurobot.gui.communication.EditHost
    Bases: PyQt4.QtGui.QWidget

class Eurobot.gui.communication.SendCan
    Bases: PyQt4.QtGui.QWidget
        selection_changed ()

class Eurobot.gui.communication.Table (header)
    Bases: PyQt4.QtGui.QTableWidget
        add_row (data, color, autoscroll, visible)
        filter_types (types)

class Eurobot.gui.communication.TcpConnection (host, port)
    Bases: PyQt4.QtCore.QThread
        run ()
```

Eurobot.gui.field module

```
class Eurobot.gui.field.GameField
    Bases: PyQt4.QtGui.QWidget
        draw_robot (painter, robot, scale)
        paintEvent (event)
```

```
setpoint(msg_frame)
```

Module contents

1.1.2 Eurobot.tests package

Submodules

Eurobot.tests.can_traffic module

```
Eurobot.tests.can_traffic.main()
```

Eurobot.tests.test_can module

```
class Eurobot.tests.test_can.TestCanPacker(methodName='runTest')
    Bases: unittest.case.TestCase

    test_decode_booleans()
    test_encode_booleans()
    test_pack()
    test_unpack()
```

Module contents

1.2 Submodules

1.3 Eurobot.can module

```
class Eurobot.can.Can(interface, sender)
    Bases: builtins.object

    build_can_frame(can_id, data)
    dissect_can_frame(frame)
    recv_can()
    recv_connection()
    send(msg_frame)
    send_can(can_id, can_msg)
    send_connection()

class Eurobot.can.MsgSender
    Bases: enum.Enum

class Eurobot.can.MsgTypes
    Bases: enum.Enum

Eurobot.can.decode_booleans(intval, bits)
    decodes one int value to a list of booleans
```


Parameters

- **intval** (*int*) – int value
- **bits** (*int*) – number of bits to decode

Returns list of booleans**Return type** bool[]

Eurobot.can.**encode_booleans** (*bool_lst*)
encodes a list of bool variables to one number

Parameters **bool_lst** (*bool[]*) – list of booleans to encode**Returns** result**Return type** int

Eurobot.can.**pack** (*msg_frame, sender*)

Eurobot.can.**unpack** (*can_id, can_msg*)

1.4 Eurobot.ethernet module

class Eurobot.ethernet.**Client** (*host, port*)
Bases: Eurobot.ethernet._TcpConnection
connection (*s*)

class Eurobot.ethernet.**Server**
Bases: Eurobot.ethernet._TcpConnection
connection (*s*)
wait_connections (*s*)

1.5 Eurobot.gui module

1.6 Eurobot.kern module

Eurobot.kern.**main** ()

1.7 Eurobot.speak module

Eurobot.speak.**speak** (*text*)

1.8 Module contents

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