VSS-Vision

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Contents

Index

1	Hiera	erarchical Index						
	1.1	Class Hierarchy	1					
2	Clas	s Index	3					
	2.1	Class List	3					
3	Clas	s Documentation	5					
	3.1	vss_state::Ball_State Class Reference	5					
	3.2	calibration Class Reference	7					
	3.3	vss_command::Global_Commands Class Reference	9					
	3.4	vss_state::Global_State Class Reference	11					
	3.5	Interface Class Reference	13					
		3.5.1 Detailed Description	14					
	3.6	MainWindow Class Reference	14					
	3.7	QCustomLabel Class Reference	17					
	3.8	vss_state::RGB Class Reference	18					
	3.9	vss_command::Robot_Command Class Reference	20					
	3.10	vss_state::Robot_State Class Reference	22					
	3.11	SQLite Class Reference	23					
	3.12	vss_command::StaticDescriptorInitializer_command_2eproto Struct Reference	24					
	3.13	vss_state::StaticDescriptorInitializer_state_2eproto Struct Reference	24					
	3.14	vision Class Reference	25					

29

Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Interface
Message
vss_command::Global_Commands
vss_command::Robot_Command
vss_state::Ball_State
vss_state::Global_State
vss_state::RGB
vss_state::Robot_State
QLabel
QCustomLabel
QMainWindow
MainWindow
QThread
calibration
vision
SQLite
vss_command::StaticDescriptorInitializer_command_2eproto
vss state::StaticDescriptorInitializer state 2eproto

2 Hierarchical Index

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

vss_state::Ball_State
calibration
vss_command::Global_Commands
vss_state::Global_State
Interface
This class is responsible for handle the communicatio between VSS-Vision, VSS-Simulator, V←
SS-Viewer and VSS-SampleStratey
MainWindow
QCustomLabel
vss_state::RGB
vss_command::Robot_Command
vss_state::Robot_State
SQLite
vss_command::StaticDescriptorInitializer_command_2eproto
vss_state::StaticDescriptorInitializer_state_2eproto
vision

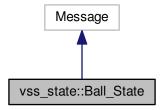
4 Class Index

Chapter 3

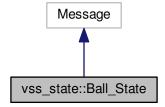
Class Documentation

3.1 vss_state::Ball_State Class Reference

Inheritance diagram for vss_state::Ball_State:



Collaboration diagram for vss_state::Ball_State:



Public Member Functions

- Ball_State (const Ball_State &from)
- Ball_State & operator= (const Ball_State &from)
- const ::google::protobuf::UnknownFieldSet & unknown_fields () const
- inline::google::protobuf::UnknownFieldSet * mutable_unknown_fields ()
- void Swap (Ball_State *other)
- Ball_State * New () const
- void CopyFrom (const ::google::protobuf::Message &from)
- void MergeFrom (const ::google::protobuf::Message &from)
- void CopyFrom (const Ball State &from)
- void MergeFrom (const Ball_State &from)
- · void Clear ()
- bool IsInitialized () const
- int ByteSize () const
- bool MergePartialFromCodedStream (::google::protobuf::io::CodedInputStream *input)
- void SerializeWithCachedSizes (::google::protobuf::io::CodedOutputStream *output) const
- ::google::protobuf::uint8 * SerializeWithCachedSizesToArray (::google::protobuf::uint8 * output) const
- int GetCachedSize () const
- ::google::protobuf::Metadata GetMetadata () const
- bool has_x () const
- void clear_x ()
- · float x () const
- void set_x (float value)
- bool has_y () const
- void clear_y ()
- · float y () const
- void set_y (float value)

Static Public Member Functions

- static const ::google::protobuf::Descriptor * descriptor ()
- static const Ball State & default_instance ()

Static Public Attributes

- static const int kXFieldNumber = 1
- static const int kYFieldNumber = 2

Friends

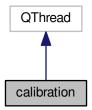
- void protobuf_AddDesc_state_2eproto ()
- void protobuf_AssignDesc_state_2eproto ()
- void protobuf_ShutdownFile_state_2eproto ()

The documentation for this class was generated from the following files:

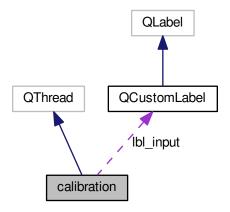
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.cc

3.2 calibration Class Reference

Inheritance diagram for calibration:



Collaboration diagram for calibration:



Public Member Functions

- void run ()
- void finish ()
- void applyFilters ()
- void zoom ()
- void paint_output ()
- void set_device (int)
- void set_id_camera (int)
- void **set_path_image** (string)
- void set_path_video (string)
- void set_vision_reception (bool)
- void set_id_color (int)

- void set_mouse_click_left (int)
- void set_mouse_click_right (int)
- int get_device ()
- int get_id_camera ()
- string get_path_image ()
- bool get_vision_reception ()
- int get_id_color ()
- int get_mouse_click_left ()
- int get_mouse_click_right ()
- void alloc_label_input (QCustomLabel *)
- void alloc_calibration (Calibration *)

Protected Attributes

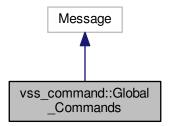
- · bool run_it
- int device_used
- bool vision_reception
- bool start_finish
- int id_camera
- · string path_image
- string path_video
- int mouse_click_left
- int mouse_click_right
- · int id_calib
- Point zoom_blob
- Mat in
- Mat out
- · Mat saved
- Mat raw_in
- · Mat raw_out
- Mat storage
- · Point size
- VideoCapture cap
- vector< vector< Point >> labels
- vector< vector< Point >> contours
- vector< Vec4i > hierarchy
- · Qlmage img
- QCustomLabel * Ibl_input
- Calibration * _calib
- TableColor table_color

The documentation for this class was generated from the following files:

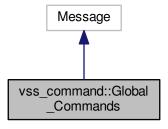
- · /home/johnathan/Repositories/SIRLab/VSS-Vision/src/calibration.h
- · /home/johnathan/Repositories/SIRLab/VSS-Vision/src/calibration.cpp

3.3 vss_command::Global_Commands Class Reference

Inheritance diagram for vss_command::Global_Commands:



Collaboration diagram for vss_command::Global_Commands:



Public Member Functions

- Global_Commands (const Global_Commands &from)
- Global_Commands & operator= (const Global_Commands &from)
- const ::google::protobuf::UnknownFieldSet & unknown_fields () const
- inline::google::protobuf::UnknownFieldSet * mutable_unknown_fields ()
- void Swap (Global_Commands *other)
- Global Commands * New () const
- void **CopyFrom** (const ::google::protobuf::Message &from)
- void MergeFrom (const ::google::protobuf::Message &from)
- void CopyFrom (const Global_Commands &from)
- void MergeFrom (const Global_Commands &from)
- void Clear ()
- bool IsInitialized () const
- int ByteSize () const
- bool MergePartialFromCodedStream (::google::protobuf::io::CodedInputStream *input)

- void SerializeWithCachedSizes (::google::protobuf::io::CodedOutputStream *output) const
- ::google::protobuf::uint8 * SerializeWithCachedSizesToArray (::google::protobuf::uint8 * output) const
- int GetCachedSize () const
- ::google::protobuf::Metadata GetMetadata () const
- · bool has_id () const
- void clear id ()
- · inline::google::protobuf::uint32 id () const
- · void set_id (::google::protobuf::uint32 value)
- bool has_is_team_yellow () const
- void clear_is_team_yellow ()
- bool is_team_yellow () const
- void set_is_team_yellow (bool value)
- int robot commands size () const
- void clear_robot_commands ()
- const ::vss_command::Robot_Command & robot_commands (int index) const
- inline::vss command::Robot Command * mutable robot commands (int index)
- inline::vss command::Robot Command * add robot commands ()
- const ::google::protobuf::RepeatedPtrField< ::vss_command::Robot_Command > & robot_commands ()
 const
- inline::google::protobuf::RepeatedPtrField< ::vss_command::Robot_Command > * mutable_robot_← commands ()

Static Public Member Functions

- static const ::google::protobuf::Descriptor * descriptor ()
- static const Global_Commands & default_instance ()

Static Public Attributes

- static const int kldFieldNumber = 1
- static const int klsTeamYellowFieldNumber = 2
- static const int kRobotCommandsFieldNumber = 3

Friends

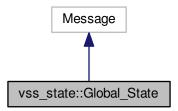
- void protobuf_AddDesc_command_2eproto ()
- void protobuf_AssignDesc_command_2eproto ()
- void protobuf_ShutdownFile_command_2eproto ()

The documentation for this class was generated from the following files:

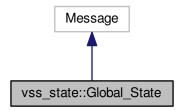
- · /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/command.pb.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/command.pb.cc

3.4 vss_state::Global_State Class Reference

Inheritance diagram for vss_state::Global_State:



Collaboration diagram for vss_state::Global_State:



Public Member Functions

- Global State (const Global State &from)
- Global_State & operator= (const Global_State &from)
- const ::google::protobuf::UnknownFieldSet & unknown_fields () const
- inline::google::protobuf::UnknownFieldSet * mutable_unknown_fields ()
- void Swap (Global_State *other)
- Global_State * New () const
- void CopyFrom (const ::google::protobuf::Message &from)
- void MergeFrom (const ::google::protobuf::Message &from)
- void CopyFrom (const Global_State &from)
- void MergeFrom (const Global_State &from)
- · void Clear ()
- bool IsInitialized () const
- int ByteSize () const
- bool MergePartialFromCodedStream (::google::protobuf::io::CodedInputStream *input)
- void SerializeWithCachedSizes (::google::protobuf::io::CodedOutputStream *output) const
- ::google::protobuf::uint8 * SerializeWithCachedSizesToArray (::google::protobuf::uint8 *output) const

- int GetCachedSize () const
- ::google::protobuf::Metadata GetMetadata () const
- bool has_id () const
- void clear_id ()
- inline::google::protobuf::uint32 id () const
- void set_id (::google::protobuf::uint32 value)
- bool has_origin () const
- void clear_origin ()
- bool origin () const
- · void set_origin (bool value)
- int balls_size () const
- void clear_balls ()
- · const ::vss state::Ball State & balls (int index) const
- inline::vss state::Ball State * mutable balls (int index)
- inline::vss state::Ball State * add_balls ()
- const ::google::protobuf::RepeatedPtrField< ::vss_state::Ball_State > & balls () const
- inline::google::protobuf::RepeatedPtrField< ::vss state::Ball State > * mutable balls ()
- int robots_yellow_size () const
- void clear robots yellow ()
- const ::vss_state::Robot_State & robots_yellow (int index) const
- inline::vss state::Robot State * mutable robots yellow (int index)
- inline::vss_state::Robot_State * add_robots_yellow ()
- const ::google::protobuf::RepeatedPtrField< ::vss state::Robot State > & robots yellow () const
- inline::google::protobuf::RepeatedPtrField< ::vss_state::Robot_State > * mutable_robots_yellow ()
- int robots_blue_size () const
- void clear_robots_blue ()
- const ::vss_state::Robot_State & robots_blue (int index) const
- inline::vss state::Robot State * mutable robots blue (int index)
- inline::vss_state::Robot_State * add_robots_blue ()
- const ::google::protobuf::RepeatedPtrField< ::vss_state::Robot_State > & robots_blue () const
- inline::google::protobuf::RepeatedPtrField< ::vss state::Robot State > * mutable robots blue ()

Static Public Member Functions

- static const ::google::protobuf::Descriptor * descriptor ()
- static const Global_State & default_instance ()

Static Public Attributes

- static const int kldFieldNumber = 1
- static const int kOriginFieldNumber = 2
- static const int kBallsFieldNumber = 3
- static const int kRobotsYellowFieldNumber = 4
- static const int kRobotsBlueFieldNumber = 5

Friends

- · void protobuf AddDesc state 2eproto ()
- void protobuf_AssignDesc_state_2eproto ()
- void protobuf_ShutdownFile_state_2eproto ()

The documentation for this class was generated from the following files:

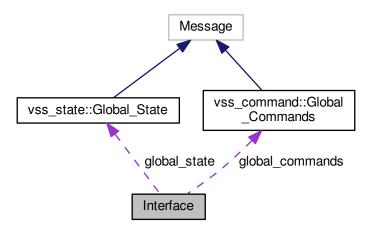
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.cc

3.5 Interface Class Reference

This class is responsible for handle the communicatio between VSS-Vision, VSS-Simulator, VSS-Viewer and VSS-SampleStratey.

#include <interface.h>

Collaboration diagram for Interface:



Public Member Functions

- void createSocketSendState (vss_state::Global_State *)
- · void sendState ()
- void createSocketReceiveState (vss_state::Global_State *)
- void receiveState ()
- void createLoopSendCommandsTeam1 (vss_command::Global_Commands *)
- void createLoopReceiveCommandsTeam1 (vss_command::Global_Commands *)
- void createLoopSendCommandsTeam2 (vss command::Global Commands *)
- void createLoopReceiveCommandsTeam2 (vss_command::Global_Commands *)
- void printState ()
- void printCommand ()

Protected Attributes

- zmq::message_t request
- zmq::context_t * context
- zmq::socket_t * socket
- vss_state::Global_State * global_state
- vss_command::Global_Commands * global_commands
- const char * addr_server_multicast = "tcp://*:5555"
- const char * addr_client_multicast = "tcp://localhost:5555"
- const char * addr_server_simulator_team1 = "tcp://*:5556"
- const char * addr_client_simulator_team1 = "tcp://localhost:5556"
- const char * addr_server_simulator_team2 = "tcp://*:5557"
- const char * addr_client_simulator_team2 = "tcp://localhost:5557"

3.5.1 Detailed Description

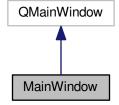
This class is responsible for handle the communicatio between VSS-Vision, VSS-Simulator, VSS-Viewer and VSS-SampleStratey.

The documentation for this class was generated from the following files:

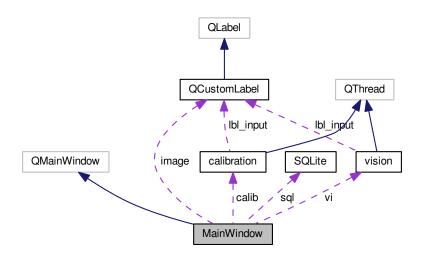
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/interface.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/interface.cpp

3.6 MainWindow Class Reference

Inheritance diagram for MainWindow:



Collaboration diagram for MainWindow:



Public Slots

- void mouseCurrentPos ()
- void mouseLeftPressed ()
- void mouseRightPressed ()
- void mouseReleased ()
- void mouseLeave ()
- · void keyPressed ()
- void evtCalibration ()
- void evtVision ()
- · void checkboxCamera (int)
- · void checkboxImage (int)
- void checkboxVideo (int)
- · void updateHmin (int)
- void updateSmin (int)
- void updateVmin (int)
- void updateHmax (int)
- void updateSmax (int)
- void updateVmax (int)

Public Member Functions

• MainWindow (QWidget *parent=0)

Protected Member Functions

- void buildTrees ()
- void addMainItem ()
- void addInputDataItem ()
- void addCameraCalibrationItem ()
- void addBlobFindingItem ()
- void addVisualizationItem ()
- void addDefinePatternsItem ()
- void addExecutionConfig ()
- void addCalibrateColors ()
- void addVisionOptions ()
- void addNetOptions ()
- void addExecutionOptions ()
- void initCalibrationColors ()
- void finishCalibrationColors ()
- void initPlotValues ()
- void finishPlotValues ()
- void updateValuesHSV ()
- void update_hsv_s ()
- · char calcHex (float)
- void getAllDevices ()
- void defineColors ()
- int translateColor (QString)

Protected Attributes

- · calibration calib
- vision vi
- SQLite * sql
- Ui::MainWindow * ui
- · Qlcon blockdevice
- · Qlcon ksame
- · Qlcon kdf
- · Qlcon package
- QTreeWidgetItem * mainItem
- QList< QTreeWidgetItem * > inputData
- QList< QTreeWidgetItem * > cameraCalibration
- QList< QTreeWidgetItem * > blobFinding
- QList< QTreeWidgetItem * > visualization
- QList< QTreeWidgetItem * > definePatterns
- QList< QTreeWidgetItem * > defineExecutionConfig
- QList< QTreeWidgetItem * > calibrateColors
- QList< QTreeWidgetItem * > visionOptions
- QList< QTreeWidgetItem * > netOptions
- QList< QTreeWidgetItem * > executionOptions
- QComboBox * cmbCameralds
- QComboBox * cmbSavedImages
- QComboBox * cmbSavedVideos
- QComboBox * cmbColors
- QComboBox * cmbMainColors_1
- QComboBox * cmbMainColors_2
- QComboBox * cmbSecColors 1
- QComboBox * cmbSecColors 2
- QComboBox * cmbSecColors 3
- QComboBox * cmbSecColors_4
- QComboBox * cmbSecColors_5
- QComboBox * cmbSecColors_6
 QComboBox * cmbBallColors
- QCheckBox * checkUseCamera
- QCheckBox * checkUseImage
- QCheckBox * checkUseVideo
- QPushButton * btnDoColorCalib
- QPushButton * btnRunVision
- QWidget * contLayoutH3
- vector< QLabel * > IblHeadersHSV
- vector< QSlider * > slidersHSV
- vector< QLabel * > IblHeadersPlot
- vector< QLabel * > **IbiPlots**
- QLabel * Ibl_val
- QCustomLabel * image
- QLabel * coordinate mouse
- QLabel * zoom_image
- Qlmage * in
- vector< string > devices
- vector< int > colors
- · Calibration _calib
- State state
- ExecConfiguration execConfig
- stringstream ss

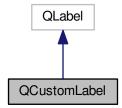
- string **hsv_s**
- bool calib_vs_vision
- bool init

The documentation for this class was generated from the following files:

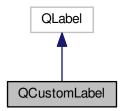
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/mainwindow.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/mainwindow.cpp

3.7 QCustomLabel Class Reference

Inheritance diagram for QCustomLabel:



Collaboration diagram for QCustomLabel:



Signals

- void Mouse_Pos ()
- void Mouse_Left_Pressed ()
- void Mouse_Right_Pressed ()
- void Mouse_Release ()
- void Mouse_Left ()
- void Mouse_Scroll ()
- void Key_Pressed ()

Public Member Functions

- QCustomLabel (QLabel *parent=0)
- void mouseMoveEvent (QMouseEvent *ev)
- void **mousePressEvent** (QMouseEvent *ev)
- void mouseReleaseEvent (QMouseEvent *ev)
- void leaveEvent (QEvent *ev)
- void wheelEvent (QWheelEvent *ev)
- void keyPressEvent (QKeyEvent *ev)

Public Attributes

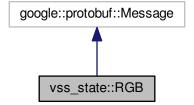
- int x
- int y
- int delta
- int last_left_click_x
- · int last left click y
- int last_right_click_x
- int last_right_click_y

The documentation for this class was generated from the following files:

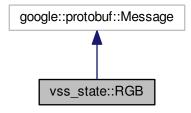
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/qcustomlabel.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/qcustomlabel.cpp

3.8 vss_state::RGB Class Reference

Inheritance diagram for vss state::RGB:



Collaboration diagram for vss_state::RGB:



Public Member Functions

- RGB (const RGB &from)
- RGB & operator= (const RGB &from)
- const ::google::protobuf::UnknownFieldSet & unknown_fields () const
- inline::google::protobuf::UnknownFieldSet * mutable_unknown_fields ()
- void Swap (RGB *other)
- RGB * New () const
- void CopyFrom (const ::google::protobuf::Message &from)
- void MergeFrom (const ::google::protobuf::Message &from)
- void CopyFrom (const RGB &from)
- void MergeFrom (const RGB &from)
- void Clear ()
- bool IsInitialized () const
- int ByteSize () const
- bool MergePartialFromCodedStream (::google::protobuf::io::CodedInputStream *input)
- void SerializeWithCachedSizes (::google::protobuf::io::CodedOutputStream *output) const
- ::google::protobuf::uint8 * SerializeWithCachedSizesToArray (::google::protobuf::uint8 * output) const
- int GetCachedSize () const
- ::google::protobuf::Metadata GetMetadata () const
- bool has_r () const
- void clear_r ()
- inline::google::protobuf::uint32 r () const
- void set_r (::google::protobuf::uint32 value)
- bool has_g () const
- void clear_g ()
- inline::google::protobuf::uint32 g () const
- void set_g (::google::protobuf::uint32 value)
- bool has_b () const
- void clear_b ()
- inline::google::protobuf::uint32 b () const
- void set_b (::google::protobuf::uint32 value)

Static Public Member Functions

- static const ::google::protobuf::Descriptor * descriptor ()
- static const RGB & default_instance ()

Static Public Attributes

- static const int kRFieldNumber = 1
- static const int kGFieldNumber = 2
- static const int kBFieldNumber = 3

Friends

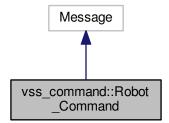
- void protobuf_AddDesc_state_2eproto ()
- void protobuf_AssignDesc_state_2eproto ()
- void protobuf_ShutdownFile_state_2eproto ()

The documentation for this class was generated from the following files:

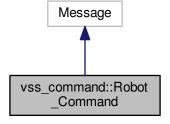
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.cc

3.9 vss_command::Robot_Command Class Reference

Inheritance diagram for vss_command::Robot_Command:



Collaboration diagram for vss_command::Robot_Command:



Public Member Functions

- Robot Command (const Robot Command &from)
- Robot Command & operator= (const Robot Command & from)
- const ::google::protobuf::UnknownFieldSet & unknown_fields () const
- inline::google::protobuf::UnknownFieldSet * mutable_unknown_fields ()
- void Swap (Robot Command *other)
- Robot_Command * New () const
- void CopyFrom (const ::google::protobuf::Message &from)
- void MergeFrom (const ::google::protobuf::Message &from)
- void CopyFrom (const Robot_Command &from)
- void MergeFrom (const Robot_Command &from)
- · void Clear ()
- · bool IsInitialized () const
- · int ByteSize () const
- bool MergePartialFromCodedStream (::google::protobuf::io::CodedInputStream *input)
- void SerializeWithCachedSizes (::google::protobuf::io::CodedOutputStream *output) const
- ::google::protobuf::uint8 * SerializeWithCachedSizesToArray (::google::protobuf::uint8 * output) const
- int GetCachedSize () const
- ::google::protobuf::Metadata GetMetadata () const
- bool has id () const
- void clear_id ()
- inline::google::protobuf::uint32 id () const
- void **set_id** (::google::protobuf::uint32 value)
- · bool has left vel () const
- void clear_left_vel ()
- · float left_vel () const
- · void set left vel (float value)
- · bool has_right_vel () const
- void clear_right_vel ()
- · float right_vel () const
- void set_right_vel (float value)

Static Public Member Functions

- static const ::google::protobuf::Descriptor * descriptor ()
- static const Robot_Command & default_instance ()

Static Public Attributes

- static const int kldFieldNumber = 1
- static const int kLeftVelFieldNumber = 2
- static const int kRightVelFieldNumber = 3

Friends

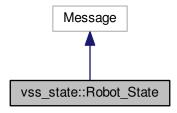
- void protobuf_AddDesc_command_2eproto ()
- void protobuf AssignDesc command 2eproto ()
- void protobuf_ShutdownFile_command_2eproto ()

The documentation for this class was generated from the following files:

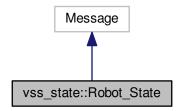
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/command.pb.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/command.pb.cc

3.10 vss_state::Robot_State Class Reference

Inheritance diagram for vss_state::Robot_State:



Collaboration diagram for vss_state::Robot_State:



Public Member Functions

- Robot_State (const Robot_State &from)
- Robot_State & operator= (const Robot_State &from)
- const ::google::protobuf::UnknownFieldSet & unknown_fields () const
- inline::google::protobuf::UnknownFieldSet * mutable_unknown_fields ()
- void Swap (Robot_State *other)
- Robot_State * New () const
- void CopyFrom (const ::google::protobuf::Message &from)
- void MergeFrom (const ::google::protobuf::Message &from)
- void CopyFrom (const Robot_State &from)
- void MergeFrom (const Robot_State &from)
- · void Clear ()
- bool IsInitialized () const
- int ByteSize () const
- bool MergePartialFromCodedStream (::google::protobuf::io::CodedInputStream *input)
- void SerializeWithCachedSizes (::google::protobuf::io::CodedOutputStream *output) const
- ::google::protobuf::uint8 * SerializeWithCachedSizesToArray (::google::protobuf::uint8 *output) const

- int GetCachedSize () const
- ::google::protobuf::Metadata GetMetadata () const
- bool has_x () const
- void clear_x ()
- float x () const
- void set x (float value)
- bool has_y () const
- void clear_y ()
- · float y () const
- void set_y (float value)
- bool has_color () const
- · void clear color ()
- const ::vss state::RGB & color () const
- inline::vss_state::RGB * mutable_color ()
- inline::vss_state::RGB * release_color ()
- void set_allocated_color (::vss_state::RGB *color)
- bool has_yaw () const
- · void clear_yaw ()
- · float yaw () const
- void set_yaw (float value)

Static Public Member Functions

- static const ::google::protobuf::Descriptor * descriptor ()
- static const Robot_State & default_instance ()

Static Public Attributes

- static const int kXFieldNumber = 1
- static const int kYFieldNumber = 2
- static const int kColorFieldNumber = 3
- static const int kYawFieldNumber = 4

Friends

- · void protobuf AddDesc state 2eproto ()
- void protobuf_AssignDesc_state_2eproto ()
- void protobuf ShutdownFile state 2eproto ()

The documentation for this class was generated from the following files:

- · /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.cc

3.11 SQLite Class Reference

Public Member Functions

- SQLite (string, string)
- void open ()
- void close ()
- void insert_calibration ()
- void select_calibration (string s="")

Protected Member Functions

• void clean_query ()

Static Protected Member Functions

• static int callback (void *NotUsed, int argc, char **argv, char **azColName)

Protected Attributes

- sqlite3 * db
- string path_database
- · string password
- · stringstream query
- int status_db
- char * error_query
- · const char * data

The documentation for this class was generated from the following files:

- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/sqlite.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/sqlite.cpp

3.12 vss_command::StaticDescriptorInitializer_command_2eproto Struct Reference

The documentation for this struct was generated from the following file:

• /home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/command.pb.cc

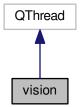
3.13 vss_state::StaticDescriptorInitializer_state_2eproto Struct Reference

The documentation for this struct was generated from the following file:

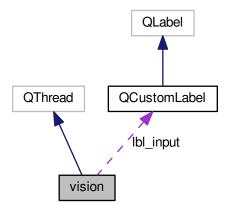
/home/johnathan/Repositories/SIRLab/VSS-Vision/src/protos/state.pb.cc

3.14 vision Class Reference

Inheritance diagram for vision:



Collaboration diagram for vision:



Public Member Functions

- void run ()
- void search_color (int)
- void alloc_calibration (Calibration *)
- void alloc_state (State *)
- void alloc_label_input (QCustomLabel *)
- void alloc_colors (vector< int > *)
- void alloc_execution_config (ExecConfiguration *)
- void alloc_label_plots (vector< QLabel * > *)
- void set_device (int)
- void **set_id_camera** (int)
- void set_path_image (string)

- void set_vision_reception (bool)
- void set_path_video (string)
- int get_device ()
- int get_id_camera ()
- string get_path_image ()
- bool get_vision_reception ()
- string get_path_video ()
- · void finish ()

Protected Member Functions

- vector< Rect > orderByArea (vector< Rect >)
- Rect expandRect (Point)
- bool itsALabel (Rect)
- bool itsAwayFromLimits (Point)
- void recognizeObjects ()
- bool isValidPoint (Point)
- void updatePlot ()

Protected Attributes

- bool run it
- · bool start finish
- int device_used
- int id_camera
- bool vision_reception
- string path_image
- · string path_video
- int side_cut
- · float area_min
- float area_max
- · float distc_min
- float distc_maxfloat propc_min
- floot means may
- float propc_maxCalibration * calib
- State * state
- ExecConfiguration * exec_config
- TableColor table color
- Mat in
- Mat out
- Mat saved
- Mat raw_out
- Mat raw_in
- Mat storage
- · VideoCapture cap
- vector< vector< Point >> coordinate_old
- vector< vector< Point >> labels
- vector< vector< Point >> contours
- vector< Vec4i > hierarchy
- vector< Point > vol_coordinate
- vector< int > * colors
- bool find_old_labels [13]

- KalmanFilter kfs [13]
- $\bullet \ \ \mathsf{QCustomLabel} * \ \textbf{Ibl_input} \\$
- vector< QLabel * > * Ibl_plots

The documentation for this class was generated from the following files:

- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/vision.h
- /home/johnathan/Repositories/SIRLab/VSS-Vision/src/vision.cpp

Index