pyFloribotVision Documentation

Release 0.1

Björn Eistel

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CHAPTER

ONE

PYFLORIBOTVISION

1.1 Project-Page

The GitHub project page is located at: http://acuda.github.io/pyFloribotVision/

1.2 General

This student research project is designed to be a part of the FloribotProject (http://floribot.de/). Admittedly the stand-alone ability should be given.

The main goal is an high-grade configurable vision system. The vision process is described through configuration files whose sections are mapped to modules/plugins where the functionality is implied.

1.3 Advance notice

This project is in an early state. It's not recommended to use it due to the possibility of drastic changes. Furthermore there is no documentation of the project until now.

CHAPTER

TWO

CONTENTS

2.1 pyfloribotvision Package

2.1.1 pyfloribotvision Package

2.1.2 PyFloribotVision Module

class pyfloribotvision.PyFloribotVision.**PyFloribotVision**(*configFile*, *loggingConfig*, *relativePath=True*)

Bases: object

Application-Startup handling Startup-Parameters

__init__(*configFile*, *loggingConfig*, *relativePath=True*)
Object initialization

Parameters

- **configFile** – path to the plugin config
- **loggingConfig** – path to the logging config
- **relativePath** – if given paths not relative this should be set to False (default True)

checkConfigExist()
checks if config files are exists and readable

executeApplicationContext()
execute configured behavior (invoke plugin methods)

initApplicationContext(*pluginprefix*)
initializes the application context

Parameters **pluginprefix** – plugins should be relative under ./plugins if class invoked trough a startup-script or another application, the prefix have to point into the package where the plugin-package could be find

pyfloribotvision.PyFloribotVision.**main**(*name*, *argv*)
Startup entry point, parsing commandline parameter

Parameters

- **name** – Name of the script which was executed
- **argv** – the list of command line arguments passed to the Python script

2.1.3 Subpackages

controller Package

controller Package

ConfigController Module

class pyfloribotvision.controller.ConfigController.**ConfigController**(*configFileName*)
Bases: object

Simple Wrapper for the ConfigParser. Loads the Configuration-File and Convert it's Data into a Dictionary Structure. Each Section becomes a Key for the tob-level dict and serves the Option Values in an concatenated-dict saved as section-value

__init__(*configFileName*)
Load the rawConfig from Config-File with the ConfigParser and convert the rawConfig into a dict structure

Parameters **configFileName** (*str*) – Path to the Configuration-File

convertRawConfigToDict(*rawConfig=None*)
Converts the rawConfig into a dict structure and returns them

Parameters **rawConfig** – rawConfig from ConfigParser, if None the previously loaded

configuration will be converted (default None)

Returns converted configuration with sections on top level

Return type dict

getConfig()
simple getter for the converted configuration

Returns dictionary or None if no configuration was loaded

Return type dict

getOption(*sectionname*, *optionname*)
returns the value from the option which belongs to the given sectionname

Parameters

- **sectionname** (*str*) – name of the section
- **optionname** (*str*) – name of the option which value will be returned

Return type str

getSection(*sectionname*)
simple getter for a section (sub-dict) from the configuration (top-dict)

Parameters **sectionname** (*str*) – name of the section which will be returned

Returns sub-dictionary or None if no section found

Return type dict

DataLinkController Module

class pyfloribotvision.controller.DataLinkController.**DataLinkController**
Bases: object

Class for data-exchange between the plugins

__init__()
Creates internal dictionary

getValue(*item*)
Returns the value corresponding to key (item)

Parameters **item** (*object*) – key object in the square parenthesis

Returns entry of the dictionary

Return type object

keys()

setValue(*key*, *value*)
set value to the internal dictionary

Parameters

- **key** – key to set
- **value** – value to set for the given key

PluginController Module

class pyfloribotvision.controller.PluginController.**PluginController**(*pluginprefix*)
Bases: object

The PluginController handles loading and finding of the Plugins

__init__(*pluginprefix*)
Initializes the PluginController and load its Plugins

Parameters **pluginprefix** –

loadPluginClass(*item*)
Finds a PluginClass by Path and returns it if found, otherwise None

Parameters **item** – the Plugin to search for str of the format according to a relative import in the plugin package. e.g.: 'opencv.cvDrawContours'

dto Package

dto Package

PluginDTO Module

class pyfloribotvision.dto.PluginDTO.**PluginDTO**
Bases: object

Plugin-Data-Object for compact access to all Plugin - no logic

__init__()

guicontrol Package

guicontrol Package

Subpackages

qt4 Package

qt4 Package

Subpackages

ui Package

ui Package

ConfigControl Module

class pyfloribotvision.guicontrol.qt4.ui.ConfigControl.**ConfigControl**

Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_ConfigControl.Ui_Conf

__init__()

MainWindow Module

class pyfloribotvision.guicontrol.qt4.ui.MainWindow.**MainWindow**

Bases: PyQt4.QtGui.QMainWindow, pyfloribotvision.guicontrol.qt4.ui.Ui_MainWindow.Ui_Mai

__init__()

handle()

initTypeHandleDict()

itemClicked(*item*)

loadList()

ParameterBase Module

class pyfloribotvision.guicontrol.qt4.ui.ParameterBase.**ParameterBase**

Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_ParameterBase.Ui_Para

__init__()

PluginList Module

class pyfloribotvision.guicontrol.qt4.ui.PluginList.**PluginList**

Bases: PyQt4.QtGui.QWidget, pyfloribotvision.guicontrol.qt4.ui.Ui_PluginList.Ui_PluginL

__init__()

Ui_ConfigControl Module

class pyfloribotvision.guicontrol.qt4.ui.Ui_ConfigControl.**Ui_ConfigControl**

Bases: object

retranslateUi(*ConfigControl*)

setupUi(*ConfigControl*)

Ui_MainWindow Module

class pyfloribotvision.guicontrol.qt4.ui.Ui_MainWindow.**Ui_MainWindow**

Bases: object

retranslateUi(*MainWindow*)

setupUi(*MainWindow*)

Ui_ParameterBase Module

class pyfloribotvision.guicontrol.qt4.ui.Ui_ParameterBase.**Ui_ParameterBase**
Bases: object

retranslateUi(*ParameterBase*)

setupUi(*ParameterBase*)

Ui_PluginList Module

class pyfloribotvision.guicontrol.qt4.ui.Ui_PluginList.**Ui_PluginList**
Bases: object

retranslateUi(*PluginList*)

setupUi(*PluginList*)

manager Package

manager Package

ContextManager Module

class pyfloribotvision.manager.ContextManager.**ContextManager**(*contextName=None*)
Bases: object

Prepare Application-Context and give the ability to access the Context trough normal initialisation for a given Pseudo-Namespace. The ContextManager provides the Plugins-, Configuration- and DataLink-Controller as well as the ProcessManager.

__init__(*contextName=None*)
Initialize a new instance per given contextName. Every new init for a known contextName returns previously initialized instance for corresponding context.

Parameters **contextName** – specifies the context (default None)

executeContext()
Triggers the executePlugins Method from the ProcessManager

initContext(*configFileName*, *loggingConfigFileName*, *pluginprefix*)
Initializes the Controller, Manager and Logger for given configuration data.

Parameters

- **configFileName** – Configuration-File for the ConfigController
- **loggingConfigFileName** – Configuration-File for the Logger
- **pluginprefix** – Prefix where the Plugin-Package can be found

ProcessManager Module

class pyfloribotvision.manager.ProcessManager.**ProcessManager**(*pluginController*, *configController*, *dataLinkController*)
Bases: object

Manages the Process and is responsibly for the runtime behavior

__init__(*pluginController*, *configController*, *dataLinkController*)
Gets the 'GENERAL' section from the ConfigController and acquires and instantiate the Plugins specified by the 'pluginSequence' Option in the Configuration

Parameters

- **pluginController** – Instance of the `PluginController`
- **configController** – Instance of the `ConfigController`
- **dataLinkController** – Instance of the `DataLinkController`

acquirePlugins (*generalConfigSection=None*)
Acquire the Plugins specified by the 'pluginSequence' Option in the Configuration given by the dict generalConfigSection or internal config if generalConfigSection is None. Furthermore returns a list of PluginDto for each loaded Plugin whose Name in the pluginSequence Option don't start with an exclamation mark

Parameters **generalConfigSection** – Config for 'GENERAL' section (default `None`)

attachToDependencyIOList (*para*, *dstList*)

executePlugins (*pluginDtoList=None*)

instantiatePlugins (*pluginDtoList=None*)
Instantiate the Plugins in the list of PluginDto's

Parameters **pluginDtoList** – List of PluginDto's (default None)

registerDependency (*pluginDtoList=None*)

triggerPluginMethods (*methodName*, *pluginDtoList=None*)
Triggers the corresponding methods of the active Plugins in the pluginDtoList

Parameters

- **methodName** – Name of the Plugin-Method to trigger
- **pluginDtoList** – List of PluginDto's (default None)

plugins Package

`plugins` Package

`BaseModule` Module

class `pyfloribotvision.plugins.BaseModule.`**BaseModule** (***kwargs*)
Bases: `object`

__init__ (***kwargs*)

externalCall ()

loadOptions ()

obligatoryConfigOptions = {}

postOptActions ()

preOptActions ()

timeBypassActions ()

Subpackages

floribot Package

`floribot` Package

FilePickleSegmentOutput Module

class pyfloribotvision.plugins.floribot.FilePickleSegmentOutput.**FilePickleSegmentOutput**(**

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

appendOutputDataToCache()

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x44005d0>, <pyfloribotvision.types.N

externalCall()

postOptActions()

preOptActions()

writeCacheToFile()

kinect Package

kinect Package

DirectKinectSource Module

class pyfloribotvision.plugins.kinect.DirectKinectSource.**DirectKinectSource**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'outputDepthImageName': None, 'camId': None, 'outputImageName': None, 're

postOptActions()

opencv Package

opencv Package

ApplyColorMap Module

class pyfloribotvision.plugins.opencv.ApplyColorMap.**ApplyColorMap**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3e56790>, <pyfloribotvision.types.N

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'outputImageName': None, 'colorMapCode': None}

postOptActions()

CVBitwiseOr Module

class pyfloribotvision.plugins.opencv.CVBitwiseOr.**CVBitwiseOr**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4628350>, <pyfloribotvision.types.N

externalCall()

CVContourConstraint Module

class pyfloribotvision.plugins.opencv.CVContourConstraint.**CVContourConstraint**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3cbfe90>, <pyfloribotvision.types.N

externalCall()

postOptActions()

CVDrawContours Module

class pyfloribotvision.plugins.opencv.CVDrawContours.**CVDrawContours**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

if inputContourIndexListName is empty, then draw all contours

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x42438d0>, <pyfloribotvision.types.N

externalCall()

CVFindContours Module

class pyfloribotvision.plugins.opencv.CVFindContours.**CVFindContours**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3cc4fd0>, <pyfloribotvision.types.N

externalCall()

postOptActions()

CVGaussBlur Module

class pyfloribotvision.plugins.opencv.CVGaussBlur.**CVGaussBlur**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x45a7590>, <pyfloribotvision.types.N

externalCall()

CVInRange Module

class pyfloribotvision.plugins.opencv.CVInRange.**CVInRange**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3cc9410>, <pyfloribotvision.types.N

externalCall()

CVMorphologyEx Module

class pyfloribotvision.plugins.opencv.CVMorphologyEx.**CVMorphologyEx**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.StringType.StringType object at 0x47b69d0>, <pyfloribotvision.types.

externalCall()

postOptActions()

CVStructuringElement Module

class pyfloribotvision.plugins.opencv.CVStructuringElement.**CVStructuringElement**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.StringType.StringType object at 0x3ccd690>, <pyfloribotvision.types.

externalCall()

postOptActions()

CVTransformColor Module

class pyfloribotvision.plugins.opencv.CVTransformColor.**CVTransformColor**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4803250>, <pyfloribotvision.types.N

externalCall()

postOptActions()

CVValueList Module

class pyfloribotvision.plugins.opencv.CVValueList.**CVValueList**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.IntNestedListType.IntNestedListType object at 0x4803a10>, <pyflorib

externalCall()

CreateContourBinaryImage Module

class pyfloribotvision.plugins.opencv.CreateContourBinaryImage.**CreateContourBinaryImage**(**

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4741290>, <pyfloribotvision.types.N

externalCall()

DirectCVCamSource Module

class pyfloribotvision.plugins.opencv.DirectCVCamSource.**DirectCVCamSource**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4828b90>, <pyfloribotvision.types.I

externalCall()

initCam()

postOptActions()

timeBypassActions()

DirectCVImageSource Module

class pyfloribotvision.plugins.opencv.DirectCVImageSource.**DirectCVImageSource**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.StringType.StringType object at 0x47b6c50>, <pyfloribotvision.types.

externalCall()

FileCVImageOutput Module

class pyfloribotvision.plugins.opencv.FileCVImageOutput.**FileCVImageOutput**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4863d50>, <pyfloribotvision.types.S

externalCall()

HuMoments Module

class pyfloribotvision.plugins.opencv.HuMoments.**HuMoments**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3cca710>, <pyfloribotvision.types.N

externalCall()

Moments Module

class pyfloribotvision.plugins.opencv.Moments.**Moments**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3ccc190>, <pyfloribotvision.types.N

externalCall()

ScreenCVImageOutput Module

class pyfloribotvision.plugins.opencv.ScreenCVImageOutput.**ScreenCVImageOutput**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.StringListType.StringListType object at 0x4940210>]

externalCall()

Watershed Module

class pyfloribotvision.plugins.opencv.Watershed.**Watershed**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x48aaf10>, <pyfloribotvision.types.N

externalCall()

python Package

python Package

DataToStdout Module

class pyfloribotvision.plugins.python.DataToStdout.**DataToStdout**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.StringListType.StringListType object at 0x41a2fd0>]

externalCall()

DeltaTimePerFrame Module

class pyfloribotvision.plugins.python.DeltaTimePerFrame.**DeltaTimePerFrame**(***kwargs*)

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

configParameter = [<pyfloribotvision.types.BoolType.BoolType object at 0x4230790>, <pyfloribotvision.types.Int

externalCall()

postOptActions()

preOptActions()

printTime(*time*)

ros Package

ros Package

types Package

types Package

BaseListType Module

class pyfloribotvision.types.BaseListType.**BaseListType**(*name=None*, ***kwargs*)

Bases: pyfloribotvision.types.BaseType.BaseType

__init__(*name=None*, ***kwargs*)

dataUpdateCallback(*name*, *data*)

invokeCallbacks(*data*)

setDataValue(*key*, *value*)

value

BaseNestedListType Module

class pyfloribotvision.types.BaseNestedListType.**BaseNestedListType**(*name=None*, ***kwargs*)

Bases: pyfloribotvision.types.BaseListType.BaseListType

__init__(*name=None*, ***kwargs*)

value

BaseType Module

class pyfloribotvision.types.BaseType.**BaseType**(*name*, ***kwargs*)
Bases: object

__init__(*name*, ***kwargs*)

data

dataUpdateCallback(*name*, *data*)

getConvertedValue(*converter*, **args*)

initLog()

invokeCallbacks(*data*)

registerDataUpdate(*callback*)

value

BoolType Module

class pyfloribotvision.types.BoolType.**BoolType**(*name=None*, ***kwargs*)
Bases: pyfloribotvision.types.BaseType.BaseType

__init__(*name=None*, ***kwargs*)

FloatType Module

class pyfloribotvision.types.FloatType.**FloatType**(*name=None*, ***kwargs*)
Bases: pyfloribotvision.types.BaseType.BaseType

__init__(*name=None*, ***kwargs*)

IntListType Module

class pyfloribotvision.types.IntListType.**IntListType**(*name=None*, ***kwargs*)
Bases: pyfloribotvision.types.BaseListType.BaseListType

__init__(*name=None*, ***kwargs*)

IntNestedListType Module

class pyfloribotvision.types.IntNestedListType.**IntNestedListType**(*name=None*, ***kwargs*)
Bases: pyfloribotvision.types.BaseNestedListType.BaseNestedListType

__init__(*name=None*, ***kwargs*)

IntType Module

class pyfloribotvision.types.IntType.**IntType**(*name=None*, ***kwargs*)
Bases: pyfloribotvision.types.BaseType.BaseType

__init__(*name=None*, ***kwargs*)

NameListType Module

class pyfloribotvision.types.NameListType.**NameListType**(*name=None*, ***kwargs*)
Bases: pyfloribotvision.types.BaseListType.BaseListType

__init__(*name=None*, ***kwargs*)

NameType Module

class pyfloribotvision.types.NameType.**NameType**(*name*, ***kwargs*)
Bases: pyfloribotvision.types.StringType.StringType

__init__(*name*, ***kwargs*)

StringListType Module

class pyfloribotvision.types.StringListType.**StringListType**(*name=None*, ***kwargs*)
Bases: pyfloribotvision.types.BaseListType.BaseListType

__init__(*name=None*, ***kwargs*)

StringNestedListType Module

class pyfloribotvision.types.StringNestedListType.**StringNestedListType**(*name=None*, *value=None*)
Bases: pyfloribotvision.types.BaseNestedListType.BaseNestedListType

__init__(*name=None*, *value=None*)

StringType Module

class pyfloribotvision.types.StringType.**StringType**(*name*, ***kwargs*)
Bases: pyfloribotvision.types.BaseType.BaseType

__init__(*name*, ***kwargs*)

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