
pyFloribotVision Documentation

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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.

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 through 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 (default None)

getConfig ()

Returns the config as dict

getOption (*sectionname, optionname*)

Returns the value from the option which belongs to the given sectionname

Parameters

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

getSection (*sectionname*)

Returns the whole section from the dict-config

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

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 through 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 responsible for the runtime behavior

```
__init__ (pluginController, configController, dataLinkController)
```

Gets the 'GENERAL' section from the ConfigController and acquires and instantiates 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 (**kwargs)
```

```
    Bases: pyfloribotvision.plugins.BaseModule.BaseModule
```

```
    __init__ (**kwargs)
```

```
    appendOutputDataToCache ()
```

```
configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x2cdb1d0>, <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 0x28bc750>, <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 0x2968710>, <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 0x28d58d0>, <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 0x2c40f10>, <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 0x1ed3510>, <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 0x3249b50>, <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 0x2778f50>, <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 0x3298a50>, <pyfloribotvision.types.N  
    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 0x2782bd0>, <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 0x32e6110>, <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 0x32e6990>, <pyflorib
    externalCall ()
```

CreateContourBinaryImage Module

```
class pyfloribotvision.plugins.opencv.CreateContourBinaryImage.CreateContourBinaryImage (**
    Bases: pyfloribotvision.plugins.BaseModule.BaseModule
    __init__ (**kwargs)
    configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x277b610>, <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 0x324c710>, <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 0x2c33bd0>, <pyfloribotvision.types.S
    externalCall ()
```

FileCVImageOutput Module

```
class pyfloribotvision.plugins.opencv.FileCVImageOutput.FileCVImageOutput (**kwargs)
    Bases: pyfloribotvision.plugins.BaseModule.BaseModule
    __init__ (**kwargs)
    configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x32495d0>, <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 0x277ca90>, <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 0x3230610>, <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 0x3421290>]
    externalCall ()
```

Watershed Module

```
class pyfloribotvision.plugins.opencv.Watershed.Watershed (**kwargs)
    Bases: pyfloribotvision.plugins.BaseModule.BaseModule
    __init__ (**kwargs)
    configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x324c490>, <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 0x3099690>]
    externalCall ()
```

DeltaTimePerFrame Module

```
class pyfloribotvision.plugins.python.DeltaTimePerFrame.DeltaTimePerFrame (**kwargs)
    Bases: pyfloribotvision.plugins.BaseModule.BaseModule
    __init__ (**kwargs)
    configParameter = [<pyfloribotvision.types.BoolType.BoolType object at 0x2db3310>, <pyfloribotvision.types.IntType.IntType object at 0x2db3310>]
    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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