pyFloribotVision Documentation

Release 0.1

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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 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

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

 $\textbf{class} \ \texttt{pyfloribotvision.controller.DataLinkController.DataLink$

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.: 'opency.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.quicontrol.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.quicontrol.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_PluginI
    __init__()
Ui_ConfigControl Module
class pyfloribotvision.guicontrol.qt4.ui.Ui_ConfigControl.Ui_ConfigControl
    Bases: object
    retranslateUi(ConfigControl)
    setupUi (ConfigControl)
Ui_MainWindow Module
class pyfloribotvision.quicontrol.qt4.ui.Ui_MainWindow.Ui_MainWindow
    Bases: object
    retranslateUi (MainWindow)
    setupUi (MainWindow)
```

Ui_ParameterBase Module

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

Bases: object

Manages the Process and is responsibly for the runtime behavior

 $\verb|__init|_(pluginController, configController, dataLinkController)|$

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.NameType.NameType object at 0x44005d0>, <pyfloribotvision.types.NameType.NameType object at 0x44005d0>, <pyfloribotvision.types.NameType.NameType object at 0x44005d0>, <pyfloribotvision.types.NameType.NameType object at 0x44005d0>, <pyfloribotvision.types.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameTyp
                        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()
opency Package
opency Package
ApplyColorMap Module
class pyfloribotvision.pluqins.opencv.ApplyColorMap.ApplyColorMap(**kwargs)
                       Bases: pyfloribotvision.plugins.BaseModule.BaseModule
                        ___init___(**kwargs)
                        configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3e56790>, <pyfloribotvision.types.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.Name
                       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.NameType.NameType.nameType.object at 0x4628350>, <pyfloribotvision.types.NameType.nameType.object at 0x4628350>, <pyfloribotvision.types.NameType.nameType.object at 0x4628350>, <pyfloribotvision.types.NameType.nameType.object at 0x4628350>, <pyfloribotvision.types.NameType.object at 0x4628350>, <pyfloribotvision.types.NameType.object at 0x4628350>, <pyfloribotvision.types.NameType.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.o
                       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.NameType.NameType.
               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.NameType.NameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.name
               externalCall()
CVFindContours Module
class pyfloribotvision.pluqins.opencv.CVFindContours.CVFindContours(**kwargs)
              Bases: pyfloribotvision.plugins.BaseModule.BaseModule
               ___init___(**kwargs)
               configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x3cc4fd0>, <pyfloribotvision.types.NameType.NameType.
              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.NameType.
               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.NameType.NameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.name
               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.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.NameType.Name
                     externalCall()
                    postOptActions()
CVValueList Module
class pyfloribotvision.plugins.opencv.CVValueList.CVValueList (**kwargs)
                     Bases: pyfloribotvision.plugins.BaseModule.BaseModule
                     ___init___(**kwargs)
                      \verb|configParameter| = [ < pyfloribot vision.types.IntNestedListType.IntNestedListType object at 0x4803a10>, < pyfloribot vision.types.IntNestedListType.IntNestedListType object at 0x4803a10>, < pyfloribot vision.types.IntNestedListType.IntNestedListType object at 0x4803a10>, < pyfloribot vision.types.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListType.IntNestedListTy
                      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.NameType.NameType.nameType.object at 0x4741290>, <pyfloribotvision.types.NameType.nameType.object at 0x4741290>, <pyfloribotvision.types.NameType.nameType.object at 0x4741290>, <pyfloribotvision.types.NameType.nameType.object at 0x4741290>, <pyfloribotvision.types.NameType.object at 0x4741290>, <pyfloribotvision.types.NameType.object at 0x4741290>, <pyfloribotvision.types.NameType.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.object.o
                     externalCall()
DirectCVCamSource Module
class pyfloribotvision.plugins.opencv.DirectCVCamSource(**kwargs)
                     Bases: pyfloribotvision.plugins.BaseModule.BaseModule
                      ___init___(**kwargs)
                      configParameter = [<pyfloribotvision.types.NameType.NameType object at 0x4828b90>, <pyfloribotvision.types.l
                     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
{\bf class} \; {\tt 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.NameType.NameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.name
                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.NameType.NameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.nameType.name
                externalCall()
ScreenCVImageOutput Module
class pyfloribotvision.plugins.opencv.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.NameType.NameType.
                externalCall()
python Package
python Package
```

```
DataToStdout Module
class pyfloribotvision.plugins.python.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 (**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 (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,
    Bases: pyfloribotvision.types.BaseNestedListType.BaseNestedListType
     __init___(name=None, **kwargs)
IntType Module
class pyfloribotvision.types.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,
    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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