pyFloribotVision Documentation

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PYFLORIBOTVISION PACKAGE

1.1 pyfloribotvision Package

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

1.3 Subpackages

1.3.1 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 its Data into a Dictionary Structure. Each Section becomes a Key for the tob-level dict and serves the Option Values in an dict again

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

Parameters **configFileName** – 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

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** –

findPlugin(*item*, *_itemList=None*)
Find a Plugin and returns it if found, otherwise None

Parameters

- **item** – the Plugin to search for if item is an instance of str the format is according to a relative import in the plugin package. e.g.: 'opencv.cvDrawContours'
- **_itemList** – only for recursion purpose, should not be used due to cache mechanisms (default: None)

loadPlugins(*module=None*, *forceReload=False*)
Load Plugins from 'plugin' package and returns them as dict

Parameters

- **module** – Python-Module to search in (default: None)
- **forceReload** – True forces reload of cached PluginList (default: False)

1.3.2 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__()

1.3.3 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`)

executePlugins(*pluginDtoList=None*)

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

Parameters **pluginDtoList** – List of PluginDto's (default 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)

1.3.4 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()

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'outputFile': None, 'inputContourName': None, 'creat

postOptActions()

preOptActions()

writeCacheToFile()

opencv Package

opencv Package

CVBitwiseOr Module
class pyfloribotvision.plugins.opencv.CVBitwiseOr.**CVBitwiseOr**(***kwargs*)
Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'outputImageName': None, 'inputImageName1': None, 'inputImageName2': Nor

CVContourConstraint Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'contourFunctions': None, 'resultPlaceholderName': None, 'inputContourName'

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*)

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'inputContourIndexListName': None, 'inputContourN

postOptActions()

CVFindContours Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'cvMode': None, 'outputHierarchyName': None, 'cvM

postOptActions()

CVGaussBlur Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'sigmaY': None, 'outputImageName': None, 'sigmaX':

postOptActions()

CVInRange Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'cvValueListNames': None, 'outputMaskListNames': N

postOptActions()

CVMorphologyEx Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'cvOperation': None, 'outputImageName': None, 'inpu

postOptActions()

CVStructuringElement Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'outputElementName': None, 'cvKSize': None, 'cvShape': None}

postOptActions()

CVTransformColor Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

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

postOptActions()

CVValueList Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'runCycle': ['oneShoot', 'loop'], 'inputValues': None, 'outputNames': None, 'inpu

postOptActions()

DirectCVCamSource Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

initCam()

obligatoryConfigOptions = {'camId': None, 'outputImageName': None, 'frameHeight': None, 'frameWidth':

postOptActions()

timeBypassActions()

DirectCVImageSource Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'inputImageFile': None, 'outputImageName': None}

postOptActions()

FileCVImageOutput Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'inputImageName': None, 'outputImageFile': None}

postOptActions()

ScreenCVImageOutput Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'inputImageList': None}

postOptActions()

python Package

python Package

DeltaTimePerFrame Module

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

Bases: pyfloribotvision.plugins.BaseModule.BaseModule

__init__(***kwargs*)

externalCall()

obligatoryConfigOptions = {'startFrame': None, 'stopFrame': None, 'displayTime': ['True', 'False']}

postOptActions()

preOptActions()

printTime(*time*)

ros Package

ros Package

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