Documentation style guide

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Introduction

The documentation of the RobotFramework AIO and also the documentation of every single component of the RobotFramework AIO is provided in PDF format. Most of the sources of the documentation (except the interface definitions of Python modules) are written in LaTeX. Parts of the LaTeX sources are written manually, other parts of the LaTeX sources are generated out of the interface definitions of Python modules automatically by a converter tool named Pandoc.

The layout of the PDF output is determined by certain LaTeX style files. These style files are e.g. responsible for the layout of code listings (syntax highlighting), the definition of LaTeX commands used by Pandoc and certain admonitions (like text boxes indicating e.g. a warning or an error).

In the context of RobotFramework AIO the documentation files in PDF format are available at two different levels, generated by two different tool chains. This is based on the fact that the code of the complete RobotFramework AIO is developed in several repositories (every component of the RobotFramework AIO has it's own repository).

- 1. The tool GenPackageDoc creates the documentation of a Python package within a single repository.
- 2. The tool GenMainDoc creates the main documentation of the RobotFramework AIO (including the documentation of it's components).

Both tool chains work with the same LaTeX style files:

```
    admonitions.sty
        Defines admonitions like: boxwarning , boxerror , boxgoodpractice , boxhint , boxtip
    common.sty
        Defines common commands like support for history.tex
```

- 3. pandoc.sty
 Defines commands used by Pandoc when computing code directives in rst sources
- 4. robotframeworkaio.sty
 Defines RobotFramework AIO specific elements like syntax highlighting for Robot Framework and Python code

All required style files are imported by preamble.tex. In case you plan to introduce LaTeX files outside the scope of GenPackageDoc and GenMainDoc, make sure to import the preamble in the following way (like in this LaTeX source file):

```
\input{./styles/preamble}
```

We recommend to use this preamble in all LaTeX files to give all resulting PDF files a unique look&feel.

Admonitions

admonitions.sty contains the definition of certain text boxes with certain symbols and background colors. The purpose is to highlight important parts of the documentation.

Warnings

\begin{boxwarning}{Warning}
This is a box which gives you a warning.
\end{boxwarning}



Warning

This is a box which gives you a warning.

Errors

\begin{boxerror}{Error}
This is a box which informs you about an error.
\end{boxerror}



Error

This is a box which informs you about an error.

Good practices

\begin{boxgoodpractice} {Good practice}
This is a box which informs you about a good practice.
\end{boxgoodpractice}



Good practice

This is a box which informs you about a good practice.

Hints

\begin{boxhint}{Hint}
This is a box which gives you a hint
\end{boxhint}



Hint

This is a box which gives you a hint

Tips

\begin{boxtip}{Tip}
This is a box which gives you a tip
\end{boxtip}



\mathbf{Tip}

This is a box which gives you a tip

Common styles

Every component repository contains a LaTeX file History.tex . A table containing the package history, can be written in the following way:

\begin{packagehistory}
\historyversiondate{0.1.0}{07/2022}
\historychange{Initial version}
\historyversiondate{0.2.0}{08/2021}
\historychange{- new feature\newline- another change}
\end{packagehistory}

0.1.0	07/2022
Initial ver	sion
0.2.0	08/2021
- new feat	

Pandoc

In the context of RobotFramework AIO the converter tool Pandoc is used to convert the interface definitions (that are the content of the docstrings of the corresponding Pythom modules) to LaTeX format. For this purpose Pandoc introduced some LaTeX commands that needs to be defined. A user writing documentation has no direct contact to this and can ignore the content of <code>pandoc.sty</code>.

RobotFramework AIO styles

Syntax highlighting is available for RobotFramework AIO code and for Python code. Also for console listings and file system informations (like file names) an own layout is available.

The common layout for RobotFramework AIO code and Python code is the same. Differences only belong to the keyords that are language specific.

The layouts are available in two different characteristics: complete text block and inline.

The main difference between code listings and console listings is the background color of the text boxes containing the listing:

- Code listings are indicated by a background color of light orange: code
- Console listings are indicated by a background color of light blue: console

5.1 Abbreviations

Framework names

To ease a unique typing of the frameworks the following LaTeX commands are available: rfw and rfwcode:

```
The \rfw\ is derived out of the \rfwcore.
```

The RobotFramework AIO is derived out of the Robot Framework.

Tabulators

The usage of tabulators should be avoided but it is possible to use the tab command to realize indentations (3 blanks):

```
\texttt{line 1}\\
\tab \texttt{line 2}\\
\tab \texttt{line 3}\\
\tab \texttt{line 4}\\

line 1
    line 2
    line 3
    line 4
```

Test results

The following commands can be used to type test results; it's not necessary to take care about the corresponding colors manually:

```
The result of the first test is \passed, the result of the second test is \failed. We also have one test with result \unknown\ and the last test is \aborted.
```

The result of the first test is passed, the result of the second test is failed. We also have one test with result unknown and the last test is aborted.

5.2 Code listings

RobotFramework AIO code block

```
\begin{robotcode}
*** Test Cases ***
Hello World
   FOR
                       IN RANGE
          ${index}
                                         11
      Log Hello world ${index}
   END
\end{robotcode}
*** Test Cases ***
Hello World
   FOR ${index}
                    IN RANGE
                                     11
      Log Hello world ${index}
```

RobotFramework AIO code block (extended)

It is possible to give the listing a caption. It is also possible to highlight certain lines within the listing. The highlighting can be realized by a list of numbers of all lines, that shall be highlighted (hlcode):

```
*** Test Cases ***

Hello World

FOR ${index} IN RANGE 1 11

Log Hello world ${index}

END
```

Listing 5.1: Robot code example

RobotFramework AIO inline code

```
The variable is set in this way: \rcode{$\{prev\}\ \ \ Set Variable\ \ \ \$\{0\}}

The variable is set in this way: $\{prev\} Set Variable $\{0\}
```

Consider that inside rcode the brackets { and } and also the blanks have to be masked!

Python code block

\begin{pythoncode}

```
def print_pattern():
    values = ("A", "B", "C")
    for value in values:
        print(f"value : {value}")

\end{pythoncode}

def print_pattern():
    values = ("A", "B", "C")
    for value in values:
        print(f"value : {value}")
```

Python code block (extended)

It is possible to give the listing a caption. It is also possible to highlight certain lines within the listing. The highlighting can be realized by a list of numbers of all lines, that shall be highlighted (hlcode):

```
def print_pattern():
    values = ("A", "B", "C")
    for value in values:
        print(f"value : {value}")
```

Listing 5.2: Python code example

Python inline code

```
The variable is set in this way: \pcode{values = ("A", "B", "C")}

The variable is set in this way: \text{values = ("A", "B", "C")}
```

5.3 Console listings

Because of the console output of RobotFramework AIO test executions contains a lot of RobotFramework AIO specific keywords, the console listing layout is adapted to RobotFramework AIO. An own individual layout for console listings of pure Python scripts is not available (and also not really required in the context of RobotFramework AIO).

Therefore for console listings of both RobotFramework AIO and Python the corresponding RobotFramework AIO commands can be used.

To keep this layout stuff simple, the console listings layout is also used for all informations related to the file system (e.g. paths and file names).

Console listing

```
HelloWorld

HelloWorld | PASS |

HelloWorld | PASS |

1 test, 1 passed, 0 failed, 0 unknown

Output: C:\RobotTest\testcases\output.xml

Log: C:\RobotTest\testcases\log.html

Report: C:\RobotTest\testcases\report.html
```

Console listing (extended)

It is possible to give the listing a caption. It is also possible to highlight certain lines within the listing. The highlighting can be realized by a list of numbers of all lines, that shall be highlighted (hllog):

```
\begin{robotlog}[caption=Robot log example,
         linebackgroundcolor=\hllog{7,11}]
______
HelloWorld
______
Hello World
                                      | PASS |
     ______
HelloWorld
                                      I PASS I
1 test, 1 passed, 0 failed, 0 unknown
 -----
Output: C:\RobotTest\testcases\output.xml
    C:\RobotTest\testcases\log.html
Report: C:\RobotTest\testcases\report.html
\end{robotlog}
```

```
HelloWorld

HelloWorld

I PASS |

HelloWorld

I test, 1 passed, 0 failed, 0 unknown

Citronia C:\RobotTest\testcases\output.xml

Log: C:\RobotTest\testcases\log.html

Report: C:\RobotTest\testcases\report.html
```

Listing 5.3: Robot log example

Inline console output

```
The test results are shown like this: \rlog{1 test, 1 passed, 0 failed, 0 unknown}

The test results are shown like this: 1 test, 1 passed, 0 failed, 0 unknown

The results of the test execution can be found in the following files: \begin{robotlog}
C:\RobotTest\testcases\output.xml
C:\RobotTest\testcases\log.html
C:\RobotTest\testcases\report.html
\end{robotlog}
```

The results of the test execution can be found in the following files:

```
C:\RobotTest\testcases\output.xml
C:\RobotTest\testcases\log.html
C:\RobotTest\testcases\report.html
```

The file \rlog{log.html} contains the log file in html format.

The file log.html contains the log file in html format.