Cukedoctor Documentation

Version 3.8.0

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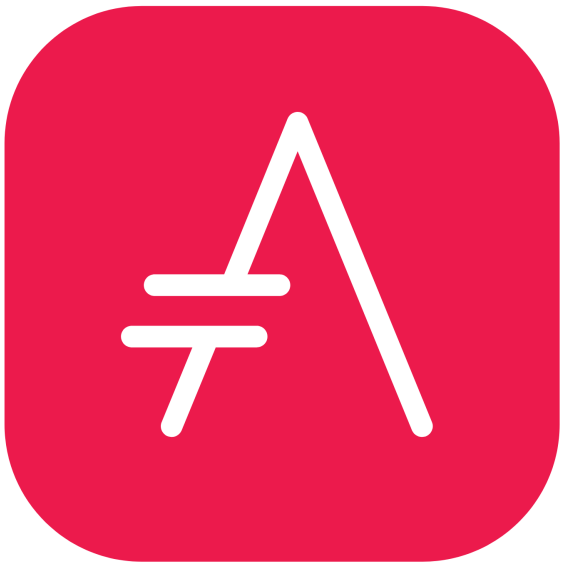
Chapter 1. Introduction

Cukedoctor is a **Living documentation** tool which integrates Cucumber and Asciidoctor in order to convert your *BDD* tests results into an awesome documentation.



Here are some design principles:

- Living documentation should be readable and highlight your software features;
  - Most bdd tools generate reports and not a truly documentation.
- Cukedoctor **do not** introduce a new API that you need to learn, instead it operates on top of cucumber json output files;
  - In the 'worst case' to enhance your documentation you will need to know a bit of asciidoc markup.

In the subsequent chapters you will see a documentation which is generated by the output of Cukedoctor's BDD tests, **a real bdd living documentation**.

Chapter 2. Features

2.1. Cukedoctor Converter

> In order to have awesome *living documentation*
> As a bdd developer
> I want to use **Cukedoctor** to convert my cucumber test results into `readable` living documentation.

2.1.1. Convert features test output into documentation

Given

The following two features: 👍

```
Feature: Feature1

  Scenario: Scenario feature 1

    Given scenario step

Feature: Feature2

  Scenario: Scenario feature 2

    Given scenario step
```

When

I convert their json test output using cukedoctor converter 👍

To generate cucumber .json output files just execute your *BDD* tests with **json** formatter, example:

```
@RunWith(Cucumber.class)
@CucumberOptions(plugin = {"json:target/cucumber.json"} )
```

plugin option replaced **format** option which was deprecated in newer cucumber versions.

Then

I should have awesome living documentation 👍

Documentation

Summary

Scenarios			Steps							Features: 2	
Passed	Failed	Total	Passed	Failed	Skipped	Pending	Undefined	Missing	Total	Duration	Status
Feature1											
1	0	1	1	0	0	0	0	0	1	647ms	passed
Feature2											
1	0	1	1	0	0	0	0	0	1	000ms	passed
Totals											
2	0	2	2	0	0	0	0	0	2	647ms	

Features

Feature1

Scenario: Scenario feature 1

Given
scenario step (647ms)

Feature2

Scenario: Scenario feature 2

Given
scenario step (000ms)

2.2. Ordering

> In order to have features ordered in living documentation
> As a bdd developer
> I want to control the order of features in my documentation

2.2.1. Default ordering

Given

The following two features: 👍

```
Feature: Feature1

  Scenario: Scenario feature 1

    Given scenario step

Feature: Feature2

  Scenario: Scenario feature 2

    Given scenario step
```

When

I convert them using default order 👍

Then

Features should be ordered by name in resulting documentation 👍

Features

Feature1

Scenario: Scenario feature 1

Given

scenario step 👍 (647ms)

Feature2

Scenario: Scenario feature 2

Given

scenario step 👍 (000ms)

2.2.2. Custom ordering with tags

Ordering is done using feature tag **@order-**

Given

The following two features: 👍

```
@order-2
Feature: Feature1

  Scenario: Scenario feature 1

    Given scenario step

@order-1
Feature: Feature2

  Scenario: Scenario feature 2

    Given scenario step
```

When

I convert them using tag order 👍

Then

Features should be ordered respecting order tag 👍

Features

Feature2

Scenario: Scenario feature 2

Given

scenario step 👍 (000ms)

Feature1

Scenario: Scenario feature 1

Given

scenario step 👍 (001ms)

2.3. Enrich features

> In order to have awesome *living documentation*
> As a bdd developer
> I want to render asciidoc markup inside my features.

Asciidoc markup can be used in feature **DocStrings**. To do so you can enable it by using **@asciidoc** tag at `feature` or `scenario` level.

Adding @asciidoc tag at **feature level** will make cukedoctor interpret `all features docstrings` as Asciidoc markup.

Adding @asciidoc at **scenario level** will make cukedoctor interpret `all steps docstrings` as asciidoc markup.

To enable asciidoc markup in a **single step** you can use `asciidoc` as docstring content type.

Feature and scenario descriptions are automatically interpreted as Asciidoc markup without the need for adding the feature tag.

2.3.1. DocString enrichment activated by the content type

Asciidoc markup can be used in feature **DocStrings**. To do so you can enable it by using the content type **[asciidoc]** in the DocString.

Given

The following two features: 👍

```
Feature: Discrete class feature

  Scenario: Render source code

    Given the following source code in docstrings
"""asciidoc
  [source, java]
  -----
  public int sum(int x, int y){
  int result = x + y;
  return result; (1)
  }
  -----
  <1> We can have callouts in living documentation
"""

  Scenario: Render table

    Given the following table
 """asciidoc
  |===

  | Cell in column 1, row 1 | Cell in column 2, row 1
  | Cell in column 1, row 2 | Cell in column 2, row 2
  | Cell in column 1, row 3 | Cell in column 2, row 3

  |===
"""
```

When

I convert enriched docstring with asciidoc content type using cukedoctor converter 👍

Then

DocString asciidoc output must be rendered in my documentation 👍

Features

Discrete class feature

Scenario: Render source code

Given

the following source code in docstrings 👍 (002ms)

```
public int sum(int x, int y){
    int result = x + y;
    return result; (1)
}
```

① We can have callouts in living documentation

Scenario: Render table

Given

the following table 👍 (000ms)

Cell in column 1, row 1	Cell in column 2, row 1
Cell in column 1, row 2	Cell in column 2, row 2
Cell in column 1, row 3	Cell in column 2, row 3

2.3.2. DocString enrichment activated by a feature tag

Asciidoc markup can be used in feature **DocStrings**. You can enable this by applying the tag [@asciidoc] to the feature. Note this enables the enrichment for all DocStrings within the feature.

Given

The following two features: 👍

```
@asciidoc
Feature: Discrete class feature

  Scenario: Render source code

    Given the following source code in docstrings
"""
  [source, java]
  -----
  public int sum(int x, int y){
  int result = x + y;
  return result; (1)
  }
  -----
  <1> We can have callouts in living documentation
"""

  Scenario: Render table

    Given the following table
 """
  |===

  | Cell in column 1, row 1 | Cell in column 2, row 1
  | Cell in column 1, row 2 | Cell in column 2, row 2
  | Cell in column 1, row 3 | Cell in column 2, row 3

  |===
"""
```

When

I convert enriched docstring with asciidoc feature tag using cukedoctor converter 👍

Then

DocString asciidoc output must be rendered in my documentation 👍

Features

Discrete class feature

Scenario: Render source code

Given

the following source code in docstrings 👍 (011ms)

```
public int sum(int x, int y){
    int result = x + y;
    return result; (1)
}
```

① We can have callouts in living documentation

Scenario: Render table

Given

the following table 👍 (000ms)

Cell in column 1, row 1	Cell in column 2, row 1
Cell in column 1, row 2	Cell in column 2, row 2
Cell in column 1, row 3	Cell in column 2, row 3

2.3.3. DocString enrichment activated by a scenario tag

Asciidoc markup can be used in feature **DocStrings**. You can enable this by applying the tag [@asciidoc] to the scenario. Note this enables the enrichment for all DocStrings within the scenario.

Given

The following two features: 👍

```
Feature: Discrete class feature

  @asciidoc
  Scenario: Render source code

    Given the following source code in docstrings
"""
  [source, java]
  -----
  public int sum(int x, int y){
  int result = x + y;
  return result; (1)
  }
  -----
  <1> We can have callouts in living documentation
"""

  @asciidoc
  Scenario: Render table

    Given the following table
 """
  |===

  | Cell in column 1, row 1 | Cell in column 2, row 1
  | Cell in column 1, row 2 | Cell in column 2, row 2
  | Cell in column 1, row 3 | Cell in column 2, row 3

  |===
"""
```

When

I convert enriched docstring with asciidoc scenario tag using cukedoctor converter 👍

Then

DocString asciidoc output must be rendered in my documentation 👍

Features

Discrete class feature

Scenario: Render source code

Given
the following source code in docstrings 👍 (002ms)

```
public int sum(int x, int y){
    int result = x + y;
    return result; (1)
}
```

① We can have callouts in living documentation

Scenario: Render table

Given
the following table 👍 (000ms)

Cell in column 1, row 1	Cell in column 2, row 1
Cell in column 1, row 2	Cell in column 2, row 2
Cell in column 1, row 3	Cell in column 2, row 3

2.3.4. Whitespace in descriptions

Features and Scenarios can have multi-line descriptions. In a feature file, these may be indented. Cukedoctor uses the indentation of the first line non-blank line of the description to determine the difference
between the indentation *of* the description in a feature file and your desired indentation *within* the the
description itself.

Given

the feature: 👍

```
  Feature: Feature One


    This is the description for Feature One. The first non-blank line of this
description in the feature file began with four whitespace characters.
      Therefore, cukedoctor will ignore up to the first four
whitespace characters
  in all other lines in the same description,
    if any are present.


This includes
  further lines
    in a different
      paragraph
        in the same description.



    Scenario: Scenario One

    This is the description for Scenario One. The first non-blank line of this
description in the feature file began with four whitespace characters.
      Therefore, cukedoctor will ignore up to the first four
whitespace characters
  in all other lines in the same description,
    if any are present.


This includes
  further lines
    in a different
      paragraph
        in the same description.



    Scenario: Scenario Two
This scenario has no indentation. You don't have to use it, after all.
      Indentation in subsequent lines is therefore fully preserved.
```

When

I convert it 👍

Then

it should be rendered in AsciiDoc as 👍

Features

Feature One

This is the description for Feature One. The first non-blank line of this description in the feature file began with four whitespace characters.

```
Therefore, cukedoctor will ignore up to the first four
```

whitespace characters

in all other lines in the same description,

if any are present.

This includes

further lines

in a different

```
paragraph
```

```
in the same description.
```

Scenario: Scenario One

This is the description for Scenario One. The first non-blank line of this description in the feature file began with four whitespace characters.

```
Therefore, cukedoctor will ignore up to the first four
```

whitespace characters

in all other lines in the same description,

if any are present.

This includes

further lines

in a different

```
paragraph
```

```
in the same description.
```

Scenario: Scenario Two

This scenario has no indentation. You don't have to use it, after all.

```
Indentation in subsequent lines is therefore fully preserved.
```

2.4. Documentation introduction chapter

> In order to have an introduction chapter in my documentation
> As a bdd developer
> I want to be able to provide an asciidoc based document which introduces my software.

2.4.1. Introduction chapter in classpath

The introduction file must be named **intro-chapter.adoc** and can be in any package of your application,

By default Cukedoctor will look into application folders but you can make Cukedoctor look into external folder by setting the following system property:

```
System.setProperty("INTRO_CHAPTER_DIR","/home/some/external/folder");
```

Given

The following two features: 👍

```
Feature: Feature1

  Scenario: Scenario feature 1

    Given scenario step

Feature: Feature2

  Scenario: Scenario feature 2

    Given scenario step
```

And

The following asciidoc document is on your application classpath 👍

Introduction

Cukedoctor is a **Living documentation** tool which integrates Cucumber and Asciidoctor in order to convert your *BDD* tests results into an awesome documentation.

Here are some design principles:

- Living documentation should be readable and highlight your software features;
  - Most bdd tools generate reports and not a truly documentation.
- Cukedoctor **do not** introduce a new API that you need to learn, instead it operates on top of cucumber json output files;
  - In the 'worst case' to enhance your documentation you will need to know a bit of asciidoc markup.

When

Bdd tests results are converted into documentation by Cukedoctor 👍

Then

Resulting documentation should have the provided introduction chapter 👍

Documentation

Introduction

Cukedoctor is a **Living documentation** tool which integrates Cucumber and Asciidoctor in order to convert your *BDD* tests results into an awesome documentation.

Here are some design principles:

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Summary

Scenarios			Steps							Features: 2	
Passed	**Failed**	Total	**Passed**	**Failed**	**Skipped**	**Pending**	**Undefined**	**Missing**	Total	Duration	Status
Feature1											
1	0	1	1	0	0	0	0	0	1	647ms	**passed**
Feature2											
1	0	1	1	0	0	0	0	0	1	000ms	**passed**
Totals											
2	0	2	2	0	0	0	0	0	2	647ms	

Features

Feature1

Scenario: Scenario feature 1

Given

scenario step 👍 (647ms)

Feature2

Scenario: Scenario feature 2

Given

scenario step 👍 (000ms)

2.5. Tag rendering

2.5.1. Render feature tags in that feature’s scenarios

Given

The following two features: 👍

```
@someTag
Feature: Feature1

  @otherTag
  Scenario: Scenario feature 1

    Given scenario step

  @someTag @otherTag
  Scenario: Scenario feature 2

    Given scenario step
```

When

I render the feature 👍

Then

the tags displayed under each scenario should not have duplicates 👍

Features

Feature1

Scenario: Scenario feature 1

tags: @someTag,@otherTag

Given

scenario step 👍 (001ms)

Scenario: Scenario feature 2

tags: @someTag,@otherTag

Given

scenario step 👍 (000ms)

2.5.2. Ignore cukedoctor tags in resulting documentation

Cukedoctor specific tags like `@asciidoc` and `@order` **should not** be rendered in resulting documentation.

Given

The following two features: 👍

```
@someTag @asciidoc @order-99
Feature: Feature1

  @otherTag @asciidoc
  Scenario: Scenario feature 1

    Given scenario step

  @someTag @otherTag
  Scenario: Scenario feature 2

    Given scenario step
```

When

I render the feature 👍

Then

Cukedoctor tags should not be rendered in documentation 👍

Features

Feature1

Scenario: Scenario feature 1

tags: @someTag,@otherTag

Given

scenario step 👍 (001ms)

Scenario: Scenario feature 2

tags: @someTag,@otherTag

Given

scenario step 👍 (000ms)

2.6. Attachments

> In order to capture dynamically-generated content from my tests
> As a bdd developer
> I want to render attachments from my Cucumber tests in my living documentation

2.6.1. Logging a string in Cucumber-JVM 6.7.0

Given

a Step has logged a string in Cucumber-JVM 6.7.0 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Cucumber JVM 6.7.0 scenario.log(String)

Given

a Step that performs scenario.log(String) 👍

```
She sells sea shells on the sea shore
```

2.6.2. Attaching plain text as a string with name in Cucumber-JVM 6.7.0

Given

a Step has attached plain text as a string with a title in Cucumber-JVM 6.7.0 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Cucumber JVM 6.7.0 scenario.attach(String, String, String)

Given

a Step that performs scenario.attach(String, String, String) 👍

String plain text

```
She sells sea shells on the sea shore
```

2.6.3. Attaching plain text as a byte array with name in Cucumber-JVM 6.7.0

Given

a Step has attached plain text as a byte array with a title in Cucumber-JVM 6.7.0 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Cucumber JVM 6.7.0 scenario.attach(ByteArray, String, String)

Given

a Step that performs scenario.attach(ByteArray, String, String) 👍

Byte[] plain text

```
She sells sea shells on the sea shore
```

2.6.4. Attaching a string CucumberJS 6.0.5

Given

a Step has attached a string in CucumberJS 6.0.5 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Cucumber JS 6.0.5 attach String

Given

a Step that performs attach String 👍

Attachment 1

```
She sells sea shells on the sea shore
```

2.6.5. Attaching a plain text string CucumberJS 6.0.5

Given

a Step has attached plain text as a string in CucumberJS 6.0.5 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Cucumber JS 6.0.5 attach String, String

Given

a Step that performs attach String, String 👍

Attachment 1

She sells sea shells on the sea shore

2.6.6. Attaching a plain text buffer CucumberJS 6.0.5

Given

a Step has attached plain text as a buffer in CucumberJS 6.0.5 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Cucumber JS 6.0.5 attach Buffer, String

Given

a Step that performs attach Buffer, String 👍

Attachment 1

She sells sea shells on the sea shore

2.6.7. Logged text should appear before attachments

Given

a Step has logged a string and attached a plain text string with a title 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Log and attach

Given

a Step that logs and attaches 👍

```
Peter Piper picked a peck of pickled peppers
```

String plain text

She sells sea shells on the sea shore

2.6.8. Multiple attachments

Given

a Step has three plain text attachments, two without a title 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Multiple attachments

Given

a Step that has multiple attachments 👍

Attachment 1

```
First attachment
```

Second

```
Second Attachment
```

Attachment 2

```
Third attachment
```

2.6.9. Do not render attachments that are not plain text

Given

a Step has logged an image/png attachment 👍

And

I am hiding step timings 👍

And

all Cukedoctor extensions are disabled 👍

When

I convert the Feature 👍

Then

it will be rendered as 👍

Features

Attachments

Scenario: Attaching an image

Given

a Step that attaches an image 👍