# Java PDF generator showcase

# **Example Clause**

#### Instructions

NOTE

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# **Figures**

If you want to reference a figure by using a figure number, it is important to use the following syntax. The figure identifier for <<img\_mindMap>> is the first statement of the header. Please adapt the width as appropriate, but generally a width of 800 is good for landscape-shaped figures and 400 is good for portrait-shaped ones.

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### **Tables**

Tables are easy to deal with as long as you keep them simple! To add a table, please use the following syntax.

#### GDP of selected countries in trillions

Country	2018	2019	2020	2021	2022
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France	2.78 USD	2.72 USD	2.60 USD	2.94 USD	2.96 USD
United Kingdom	2.86 USD	2.83 USD	2.71 USD	3.13 USD	3.19 USD
Italy	2.07 USD	2.00 USD	1.89 USD	2.10 USD	2.12 USD
Spain	1.43 USD	1.39 USD	1.28 USD	1.43 USD	1.45 USD

#### **Countries in Europe**

Country	Population	Size
Monaco	36371	1.98

The first line is used for referencing. You can reference <<table\_countries>> in your text. The only thing you should change in that line is the table id, which is "table\_countries" in this case. Please do not remove the "#", please do not change anything else in that line.

You can define the style and width of each column. In our example, the first column takes 50% of the entire width, the second and third column take 25% each. The total width of the table is 75% of the text width. The letters after the width percentage indicate if the column is e=emphasis, m=monospaced, a=asciidoc, s=strong. The d=default does not need to be set.

Cell alignment: If you need to align a column, you may indicate this by setting \(^{,<}\), or >. Examples:

- ^25m = centered, 25% width, monospaced.
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- <25 = aligned left, 25% width, asciidoc</li>

In any case, please make sure that your table fit on a piece of A4 or letter-size paper!!

#### **Recommended Asciidoc Environment**

We recommend to use asciidoctor and asciidoctor-pdf in combination with the Atom editor.

#### Installation on MacOS and Linux

- 1. Please follow the steps on https://asciidoctor.org/#installation.
- 2. Install the bibtex extension: gem install asciidoctor-bibtex

#### **Installation on Windows**

We have made best experiences with the following steps:

- 1. Install ruby for windows: <a href="https://rubyinstaller.org/downloads/">https://rubyinstaller.org/downloads/</a>. If you experience any issues, the following link may help: <a href="stackoverflow">stackoverflow</a>
- 2. Open command prompt and install two gems:
  - a. Execute: "gem install asciidoctor"
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  - a. Open a folder that contains your Engineering Report asciidoc source files, including the *er.adoc* file.
  - b. Execute the following command: asciidoctor -r asciidoctor-bibtex er.adoc

#### **Using Asciidoctor with Atom**

In Atom, you should install the following packages:

- · asciidoc-preview
- · autocomplete-asciidoc

- language-asciidoc
- markdown-writer: requires changing of key-map to allow for keyboard shortcuts such as e.g. bold
- · platformio-IDE-terminal

This environment allows you to use keyboard shortcuts, autocomplete, syntax highlighting and a rendered preview for asciidoc; and provides you an terminal window within the editor to convert your asciidoc to html and pdf.

## **Asciidoc Conversion**

In order to achieve a uniform look-and-feel of all ERs in both HTML and PDF, we have provided a css and theme file. The following commands can be used to convert the ER:

**Command for PDF output:** asciidoctor-pdf -r asciidoctor-bibtex -a pdf-stylesdir=resources -a pdf-style=ogc -a pdf-fontsdir=resources/fonts er.adoc

Command for HTML output: asciidoctor -r asciidoctor-bibtex -a linkcss -a stylesheet=rocket-panda.css -a stylesdir=./stylesheets er.adoc

#### **Source Code**

You can add code snippets using the following syntax:

```
<section>
<title>Section Title</title> <!--1-->
</section>
```

<1> This notation allows to reference particular sections within the code.

You can alternatively use line numbers to reference a specific section in your code.

As shown in line 2, the value of "id" is "File".

# Asciidoc(tor) Syntax Help

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#### **Use of Citations**

For citations that also have an associated URL, the URL should be inserted inline as in this example. An endnote citation should still also be included (just in case the link stops working in the future).

Please use the following syntax to insert citations anywhere in the text:

The hail-and-rainbow protocol can be initiated at five levels:

- 1. doublefootnote:[The double hail-and-rainbow level makes my toes tingle.]
- 2. tertiary
- 3. supernumerary
- 4. supermassive
- 5. apocalyptic

```
cite:[VanZyl2009]
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or, if it is more than one citation that should be added at the same location, use

```
cite:[Pross2018,0GCTechTrends2018]
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which will create links in the compiled HTML/PDF that look as follows: cite:[VanZyl2009], of for the second example given above, it results in cite:[Pross2018,OGCTechTrends2018]

Then you need to provide all citation information in the file resources/bibtex-file.bib. This file uses the bibtex file format, which is defined in full detail here. The bibtex-style file shall remain untouched.

The conversion of *cite:*[FooBar] takes place at the time of asciidoc-to-pdf/html conversion and requires two things:

1. The definition of the *bibtex-file* and the *bibtex-style* attributes. This is done in this template in file <<bi>bibtexAttributes,er.adoc>>. Please make sure that both files are available at their defined locations.

```
Examples of bibtex attributes as set in file er.adoc

:bibtex-file: resources/bibtex-file.bib

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1. Adding a flag to the asciidoctor conversion command

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