

Java PDF generator showcase

Example Clause

Instructions

NOTE

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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
<i>Germany</i>	<i>3.95 USD</i>	<i>3.86 USD</i>	<i>3.80 USD</i>	<i>4.22 USD</i>	<i>4.26 USD</i>
<i>France</i>	<i>2.78 USD</i>	<i>2.72 USD</i>	<i>2.60 USD</i>	<i>2.94 USD</i>	<i>2.96 USD</i>
<i>United Kingdom</i>	<i>2.86 USD</i>	<i>2.83 USD</i>	<i>2.71 USD</i>	<i>3.13 USD</i>	<i>3.19 USD</i>
<i>Italy</i>	<i>2.07 USD</i>	<i>2.00 USD</i>	<i>1.89 USD</i>	<i>2.10 USD</i>	<i>2.12 USD</i>
<i>Spain</i>	<i>1.43 USD</i>	<i>1.39 USD</i>	<i>1.28 USD</i>	<i>1.43 USD</i>	<i>1.45 USD</i>

Countries in Europe

Country	Population	Size
<i>Monaco</i>	<i>36371</i>	<i>1.98</i>
<i>Gibraltar</i>	<i>29431</i>	<i>6.8</i>

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.

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

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 <http://asciidoctor.org> and <http://asciidoctor.org/docs/convert-asciidoc-to-pdf/> in combination with the <https://atom.io> editor.

Installation on MacOS and Linux

- Please follow the steps on <https://asciidoctor.org/#installation>.
- Install the bibtex extension: **gem install asciidoctor-bibtex**

Installation on Windows

We have made best experiences with the following steps:

- Install ruby for windows: <https://rubyinstaller.org/downloads/>. If you experience any issues, the following link may help: <https://stackoverflow.com/questions/18908708/installing-ruby-gem-in-windows>
- Open command prompt and install two gems:
- Execute: "gem install asciidoctor"

- Execute: "gem install asciidoctor-bibtex"
- Text your installation
- Open a folder that contains your Engineering Report asciidoc source files, including the **er.adoc** file.
- 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:

Code Example XML

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

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

Code Example JSON

```
{ "menu": {  
  "id": "file",  
  "value": "File",  
  "popup": {  
    "menuitem": [  
      { "value": "New", "onclick": "CreateNewDoc()" },  
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    ]  
  }  
}}
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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 <https://www.ogc.org/>. An endnote citation should still also be included (just in case the link stops working in the future).

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

-
- tertiary
- supernumerary
- supermassive
- apocalyptic

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

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which will create links in the compiled HTML/PDF that look as follows: , of for the second example given above, it results in

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 <http://www.bibtex.org/Format/>. The bibtex-style file shall remain untouched.

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

- The definition of the **bibtex-file** and the **bibtex-style** attributes. This is done in this template in file `<<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
:bibtex-style: resources/lncs.csl
```

- Adding a flag to the asciidoctor conversion command

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A full conversion command could look as in the following example:

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