Java PDF generator showcase

Example Clause

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Tables

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GDP of selected countries in trillions

Country	2018	2019	2020	2021	2022
Germany	*3.95 USD*	*3.86 USD*	*3.80 USD*	*4.22 USD*	*4.26 USD*
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*

Gibraltar	29431	6.8

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.

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- ^25m = centered, 25% width, monospaced.
- >25e = aligned right, 25% width, emphasised
- <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 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.
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   a. Execute: "gem install asciidoctor"
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3. Text your installation
   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-->
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```

<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.

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

Asciidoc(tor) Syntax Help

Is available e.g. here: http://asciidoctor.org/docs/

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:

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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: 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:

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