

Java PDF generator showcase

Example Clause

Instructions

NOTE

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Figures

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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.

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

- ^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 [asciidocctor](#) and [asciidocctor-pdf](#) in combination with the [Atom](#) editor.

Installation on MacOS and Linux

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

Installation on Windows

We have made best experiences with the following steps:

1. Install ruby for windows: <https://rubyinstaller.org/downloads/>. If you experience any issues, the following link may help: [stackoverflow](#)
2. Open command prompt and install two gems:
 - a. Execute: "gem install asciidocctor"
 - b. Execute: "gem install asciidocctor-bibtex"
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: `asciidocctor -r asciidocctor-bibtex er.adoc`

Using Asciidocctor 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.

```
{ "menu": {
  "id": "file",
  "value": "File",
  "popup": {
    "menuitem": [
      { "value": "New", "onclick": "CreateNewDoc()" },
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```

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

Asciidoc(tor) Syntax Help

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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]
```

or, if it is more than one citation that should be added at the same location, use

```
cite:[Pross2018,OGCTechTrends2018]
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which will create links in the compiled HTML/PDF that look as follows: cite:[VanZyl2009], or 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 <<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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