



zenika  
<animés par la passion>

# AsciiDoc & doc-as-code Best Practices

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*Table 1. History*

Date	Author	Detail
2018-08-27	bcouetil	Asciidoc HTML look & feel changes
2018-08-24	bcouetil	Icones added for download + favicon added for webpage
2018-08-23	bcouetil	Initial commit

# 1. Documentation-as-code with AsciiDoc

All documentations on the project, including this one, are written as part of DevOps principle Documentation-As-Code using AsciiDocFX and compiled with AsciiDoctor under maven to produce PDF.

To help you to write your documentation, use AsciiDocFX. It will allows you to visualize your documentation without having to generate the PDF. You can consider Visual Studio Code too, it has a nice plugin but with less features.



Download and install :

- AsciiDocFX, to create and edit your documents
- Graphviz, to add the extension for your AsciiDocFX installation

*Rules to produce AsciiDoc files :*

- file names are in kebab-case, except the type at the beginning
- use **kbd:[myShortcut]** for keyboard shortcuts
- use **\btn[myButton]** for buttons
- High level title should be on new pages (use <<<)
- don't forget init/closure includes at beginning/end of the adoc
- For STS, use TMP-STS-webmethods-template.adoc as a template

To show a in progress diagram to colleagues, you can generate a link using this page : <http://www.plantuml.com/plantuml/uml/SyfFKj2rKt3CoKnELR1Io4ZDoSa70000>

## 1.1. Inline icons

- See <https://asciidoctor.org/docs/user-manual/#icons>
- Font Awesome 4.6.3 Class Explorer : <https://lab.artlung.com/font-awesome-sample/>
  - no need for :icons: font to use font awesome-font for icons

## 1.2. Custom highlighter

- See the maven configuration below, it speaks for itself
- Highlight.js demo with all languages and all styles (current theme is : darcula)
- Default highlight.js processor is too basic, instructions here to change : <https://asciidoctor.org/docs/user-manual/#highlight-js>

## 1.3. Generation using Maven

*AsciiDoctor plugin configuration*

```
<!-- to generate asciidoc pdf documents -->
<!-- single usage : mvn generate-resources -Dadoc.skip=false [- -non-recursive] -->
<plugin>
  <groupId>org.asciidoctor</groupId>
  <artifactId>asciidoctor-maven-plugin</artifactId>
  <version>1.5.6</version>
  <dependencies>
    <dependency>
      <groupId>org.asciidoctor</groupId>
      <artifactId>asciidoctorj-pdf</artifactId>
      <!-- alpha 15+16 have an annoying message on multiple lines : -->
      <!-- warning: already initialized constant XXXX -->
      <version>1.5.0-alpha.14</version>
    </dependency>
    <dependency>
      <groupId>org.asciidoctor</groupId>
      <artifactId>asciidoctorj-diagram</artifactId>
      <version>1.5.9</version>
    </dependency>
  </dependencies>
  <configuration>
    <skip>${adoc.skip}</skip>
    <sourceDirectory>src/docs/asciidoc</sourceDirectory>
    <requires>
      <require>asciidoctor-diagram</require>
    </requires>
    <attributes>
      <icons>font</icons>
      <idseparator>-</idseparator>
      <idprefix />
      <!-- custom -->
      <source-dir>../../main/java</source-dir>
      <test-dir>../../test/java</test-dir>
      <project-version>${project.version}</project-version>
      <root-project-dir>${user.dir}</root-project-dir>
      <history-dir>${project.build.directory}/generated-docs/history</history-dir>
      <project-images-dir>${project.basedir}/src/main/resources/images</project-images-dir>
    </attributes>
  </configuration>
  <executions>
    <execution>
      <id>asciidoc-to-html</id>
```

```

<phase>generate-resources</phase>
<goals>
  <goal>process-asciidoc</goal>
</goals>
<configuration>
  <backend>html5</backend>
  <!-- coderay, highlight.js, prettify -->
  <!-- coderay/prettify have only a bright theme -->
  <!-- prettify is nice but comments are red -->
  <!-- pygments/rouge is not integrated yet : https://github.com/asciidoctor/asciidoctor/issues/1040 -->
  <sourceHighlighter>highlight.js</sourceHighlighter>
  <attributes>
    <!-- local version to go beyond basic languages (for ex groovy) -->
    <highlightjsdir>highlight</highlightjsdir>
    <!-- explore here https://highlightjs.org/static/demo/ -->
    <highlightjs-theme>gruvbox-dark</highlightjs-theme>
    <imagesdir>./images</imagesdir>
    <toclevels>5</toclevels>
    <sectanchors>true</sectanchors>
    <docinfo1>true</docinfo1>
    <favicon>images/zenika-logo.png</favicon>
    <!-- custom style if default is not suitable -->
    <!-- <stylesheet>rubygems.css</stylesheet> -->
    <!-- <stylesdir>themes</stylesdir> -->
  </attributes>
</configuration>
</execution>
<execution>
  <id>asciidoc-to-pdf</id>
  <phase>generate-resources</phase>
  <goals>
    <goal>process-asciidoc</goal>
  </goals>
  <configuration>
    <backend>pdf</backend>
    <sourceHighlighter>rouge</sourceHighlighter>
    <attributes>
      <imagesdir>${project.build.directory}/generated-docs/images</imagesdir>
      <toc />
      <toclevels>3</toclevels>
      <pdf-style>${user.dir}/src/docs/asciidoc/themes/cg-theme.yml</pdf-style>
      <pagenums />
    </attributes>
  </configuration>
</execution>
</executions>
</plugin>

```

To generate the PDF locally, use the maven command :

```
mvn generate-resources -Dasciidoc.skip=false --non-recursive
```

You might have some errors about the history : It will be automatically generated on Jenkins. If you want to see how it looks like, use the script `asciidocHistory.sh` in `src` → `scripts`, with `cg-wm` directory path in argument.

## 1.4. .doc to .adoc

If the initial documentation is of Microsoft Word, you have to first migrate it to AsciiDoc file.

Download and install pandoc.

To migrate a document, use it in command line

```
pandoc --from=docx --to=asciidoc --wrap=none --atx-headers --normalize --extract-media=images monDoc.docx > monDoc.adoc
```

## 1.5. Publish HTML & PDF to github

### 1.5.1. Initialize Github space

```
mkdir docs
cd docs
git init
git checkout --orphan gh-pages
```

Copy a first version of the site in the directory, then :

```
git add *
git commit -m "initial site content"
git remote add origin "https://github.com/NeVraX182/docs.git"
git push --set-upstream origin gh-pages
```

### 1.5.2. Configure Maven plugin

*Maven SCM plugin configuration*

```
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-scm-publish-plugin</artifactId>
  <version>3.0.0</version>
  <inherited>>false</inherited>
  <configuration>
    <scmBranch>gh-pages</scmBranch>
    <!-- token generated from github > settings > Developer settings > Personal access tokens > public_repo -->
    <pubScmUrl>scm:git:https://USER:TOKEN@github.com/USER/docs.git</pubScmUrl>
    <content>target/generated-docs</content>
  </configuration>
</plugin>
```

### 1.5.3. Use in pipelines

To use in Jenkins Pipelines, see [Jenkins Best Practices](#)

To use in Gitlab Pipelines, see [Gitlab Best Practices](#)

## 2. Appendix

### 2.1. Revision marks

*Differences since last tag*

