

AsciiDoc & doc-as-code Best Practices

Version 1.18-SNAPSHOT

2018-11-21

Table of Contents

1. Editor	2
1.1. Graphviz	3
2. Inline icons	3
3. Custom code highlighter	3
4. init and closure	4
5. Generation using Maven	4
6. .doc to .adoc	8
7. Publish HTML & PDF to github	9
7.1. Initialize Github space	9
7.2. Configure Maven plugin	10
8. Use in pipelines	10
9. Reveal.js	10
9.1. Examples	11
9.2. Fullscreen on smartphone	11
9.3. Generation	11
9.4. Inline options	11
10. Appendix	13
10.1. Revision marks	13

Table 1. History

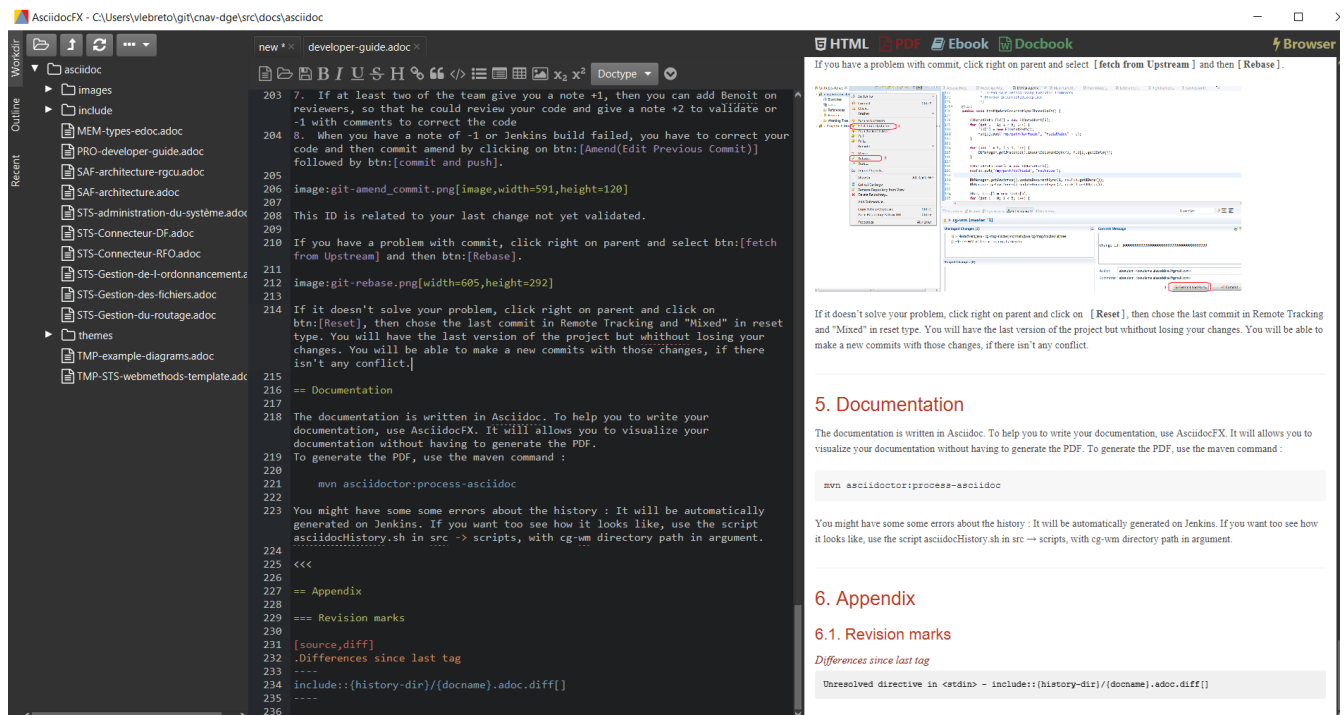
Date	Author	Detail
2018-11-13	bcouetil	- Updated sample project with Reveal.js generation - Duplicated Reveal.js execution to have multiple styles - Compromised layout between 4/3 and 16/9 - Minor changes in Reveal.js css - Added some web comics
2018-11-02	bcouetil	- reorganized asciidoc best practices - added some Geek & Poke images - reveal.js themes Zenika dark + light + parallax - updated asciidoc/reveal versions in pom.xml
2018-09-19	bcouetil	- Sample asciidoctor maven project published on Github - Github & LinkedIn links - Sample project tree - new images + resizing and positioning
2018-08-29	bcouetil	Asciidoc HTML look & feel changes
2018-08-24	bcouetil	Icones added for download + favicon added for webpage
2018-08-23	bcouetil	Initial commit

THE HISTORY OF... GETTING CODERS TO DOCUMENT



1. Editor

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 <<<)

To show a in progress diagram to colleagues, you can generate a web link using [PlantUml generator](#).

1.1. Graphviz

Graphviz has to be installed to use PlantUML diagrams.

On Windows

- Download and install : <http://www.graphviz.org/download/>
- add bin directory to windows path
 - C:\Program Files (x86)\Graphviz\bin

2. 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

3. Custom code highlighter

- To use a custom code highlighter, see the maven configuration in next paragraphs
- Default highlight.js processor is too basic, instructions [here](#) to change
- [Highlight.js demo](#) with all languages and all styles



4. init and closure

Here are the sources of [init.adoc](#) and [closure.adoc](#) included in various sources in this documentation.

They are here for generic configuration and data accross files.

5. Generation using Maven

You will find a sample Maven project generating both PDF and HTML, with current doc's layout, on [my Github](#).



Figure 1. File system tree

AsciiDoctor maven plugin configuration

```

<!-- to generate asciidoc PDF + HTML documents -->
<!-- single usage : mvn generate-resources -Dadoc.skip=false [- -non-recursive] -->
<plugin>
  <groupId>org.asciidoctor</groupId>
  <artifactId>asciidoctor-maven-plugin</artifactId>
  <!-- to increment versions, see pom.xml examples on AsciiDoctor Github -->
  <!-- 1.5.7 and 1.5.7.1 show too many warnings on PDF -->
  <version>1.5.6</version>
  <!-- if we don't want to execute in modules (this would work though) -->
  <inherited>false</inherited>
  <dependencies>
    <dependency>
      <groupId>org.asciidoctor</groupId>
      <artifactId>asciidoctorj-pdf</artifactId>
      <version>1.5.0-alpha.16</version>
    </dependency>
    <dependency>
      <groupId>org.asciidoctor</groupId>
      <artifactId>asciidoctorj-diagram</artifactId>
      <version>1.5.9</version>
    </dependency>
    <!-- comment to use the default version -->
    <dependency>
      <groupId>org.jruby</groupId>
      <artifactId>jruby-complete</artifactId>
      <version>9.1.17.0</version>
    </dependency>
    <!-- comment to use the default version -->
    <!-- <dependency>
      <groupId>org.asciidoctor</groupId>
      <artifactId>asciidoctorj</artifactId>
      <version>1.5.7</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>
    </attributes>
  </configuration>
</plugin>

```

```

<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>themes/favicon.png</favicon>
        <!-- custom style if default is not suitable -->
        <!-- <stylesheet>rubygems.css</stylesheet> -->
        <!-- <stylesdir>themes</stylesdir> -->
      </attributes>
    </configuration>
  </execution>
  <execution>
    <id>asciidoc-to-revealjs-dark</id>
    <!-- after html because it's also an html -->
    <phase>generate-resources</phase>
    <goals>
      <goal>process-asciidoc</goal>
    </goals>
    <configuration>
      <backend>revealjs</backend>
      <sourceDocumentName>PRES-asciidoc.adoc</sourceDocumentName>
      <outputFile>${project.slides.directory}/PRES-asciidoc-dark.html</outputFile>
      <templateDir>${project.build.directory}/asciidoctor-reveal.js-${asciidoctor-
revealjs.version}/templates</templateDir>
      <attributes>
        <source-highlighter>highlightjs</source-highlighter>
        <revealjsdir>reveal.js-${revealjs.version}</revealjsdir>
        <!-- default closest to Zenika's graphic chart : -->
        <!-- <revealjs_theme>blood</revealjs_theme> -->
        <revealjs_customtheme>themes/reveal-zenika-dark.css</revealjs_customtheme>
        <!-- none, fade, slide, convex, concave, zoom -->
        <!-- dynamic : PRES-asciidoc.html?transition=convex -->
        <revealjs_transition>slide</revealjs_transition>
        <revealjs_slideNumber>true</revealjs_slideNumber>
        <!-- does not work T_T only solution is put a favicon.ico in the root folder of the website -->
        <!-- <favicon>themes/favicon.png</favicon> -->
        <revealjs_width>1100</revealjs_width>
        <revealjs_height>700</revealjs_height>
      </attributes>
    </configuration>
  </execution>
  <execution>
    <id>asciidoc-to-revealjs-light</id>
    <phase>generate-resources</phase>
    <goals>
      <goal>process-asciidoc</goal>
    </goals>

```



```

<configuration>
  <backend>revealjs</backend>
  <sourceDocumentName>PRES-asciidoc.adoc</sourceDocumentName>
  <outputFile>${project.slides.directory}/PRES-asciidoc-light.html</outputFile>
  <templateDir>${project.build.directory}/asciidoc-reveal.js-${asciidoc-revealjs.version}/templates</templateDir>
  <attributes>
    <source-highlighter>highlightjs</source-highlighter>
    <revealjsdir>reveal.js-${revealjs.version}</revealjsdir>
    <revealjs_customtheme>themes/reveal-zenika-light.css</revealjs_customtheme>
    <revealjs_transition>slide</revealjs_transition>
    <revealjs_slideNumber>true</revealjs_slideNumber>
    <revealjs_width>1100</revealjs_width>
    <revealjs_height>700</revealjs_height>
  </attributes>
</configuration>
</execution>
<execution>
  <id>asciidoc-to-revealjs-dark-parallax</id>
  <phase>generate-resources</phase>
  <goals>
    <goal>process-asciidoc</goal>
  </goals>
  <configuration>
    <backend>revealjs</backend>
    <sourceDocumentName>PRES-asciidoc.adoc</sourceDocumentName>
    <outputFile>${project.slides.directory}/PRES-asciidoc-dark-parallax.html</outputFile>
    <templateDir>${project.build.directory}/asciidoc-reveal.js-${asciidoc-revealjs.version}/templates</templateDir>
    <attributes>
      <source-highlighter>highlightjs</source-highlighter>
      <revealjsdir>reveal.js-${revealjs.version}</revealjsdir>
      <revealjs_customtheme>themes/reveal-zenika-dark.css</revealjs_customtheme>
      <revealjs_transition>slide</revealjs_transition>
      <revealjs_slideNumber>true</revealjs_slideNumber>
      <revealjs_parallaxBackgroundImage>themes/tshirt-zenika-wide.jpg</revealjs_parallaxBackgroundImage>
      <revealjs_parallaxBackgroundSize>2100px 900px</revealjs_parallaxBackgroundSize>
      <revealjs_width>1100</revealjs_width>
      <revealjs_height>700</revealjs_height>
    </attributes>
  </configuration>
</execution>
<execution>
  <id>asciidoc-to-revealjs-light-parallax</id>
  <phase>generate-resources</phase>
  <goals>
    <goal>process-asciidoc</goal>
  </goals>
  <configuration>
    <backend>revealjs</backend>
    <sourceDocumentName>PRES-asciidoc.adoc</sourceDocumentName>
    <outputFile>${project.slides.directory}/PRES-asciidoc-light-parallax.html</outputFile>
    <templateDir>${project.build.directory}/asciidoc-reveal.js-${asciidoc-revealjs.version}/templates</templateDir>
    <attributes>
      <source-highlighter>highlightjs</source-highlighter>
      <revealjsdir>reveal.js-${revealjs.version}</revealjsdir>
      <revealjs_customtheme>themes/reveal-zenika-light.css</revealjs_customtheme>
      <revealjs_transition>slide</revealjs_transition>
      <revealjs_slideNumber>true</revealjs_slideNumber>
      <revealjs_parallaxBackgroundImage>themes/tshirt-zenika-wide.jpg</revealjs_parallaxBackgroundImage>
      <revealjs_parallaxBackgroundSize>2100px 900px</revealjs_parallaxBackgroundSize>
      <revealjs_width>1100</revealjs_width>
      <revealjs_height>700</revealjs_height>
    </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 --non-recursive
```

6. .doc to .adoc

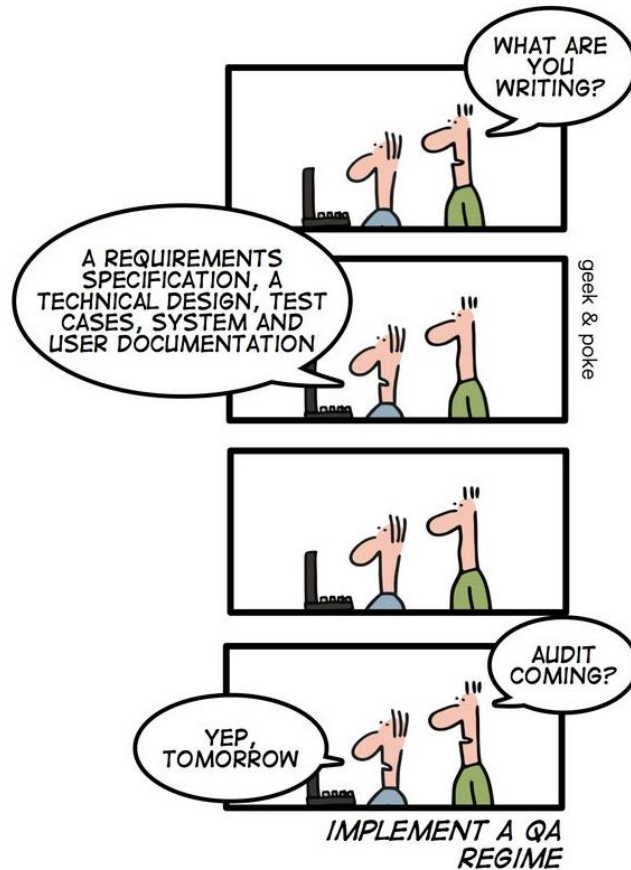
If the initial documentation is of Microsoft Word, you have to first migrate it to AsciiDoc file.

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
```

HOW TO ENSURE QUALITY



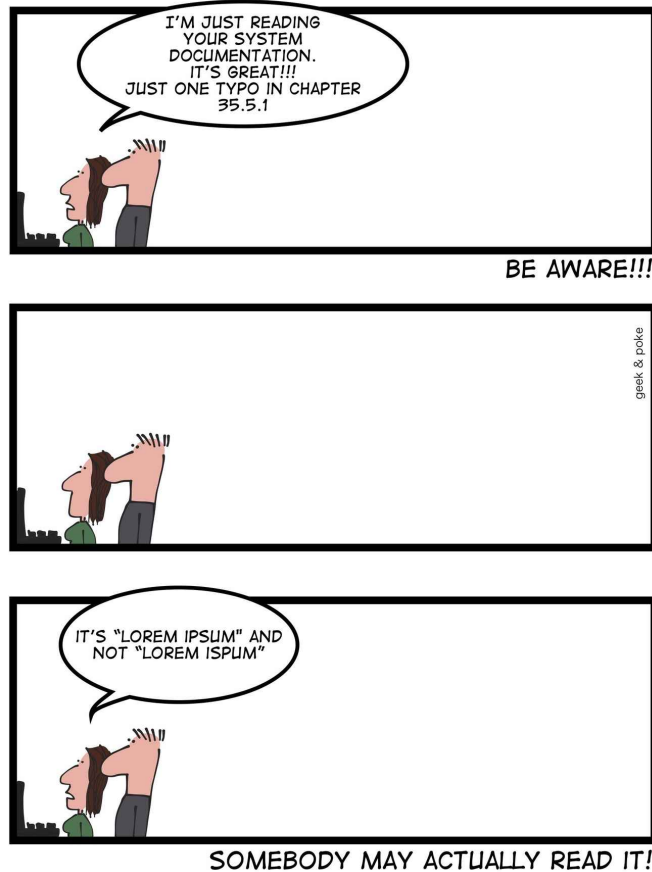
7. Publish HTML & PDF to github

7.1. 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
```



7.2. 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>
```

8. Use in pipelines

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

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

9. Reveal.js

See [official documentation](#) on AsciiDoctor website.

9.1. Examples

Official examples [here](#), especially [the G2 Scoring one](#).

Personnal examples : see at the end of the homepage.

9.2. Fullscreen on smartphone

On Android, common browsers have adress bar preventing reveal.js sites to go fullscreen. To get a real fullscreen, install **Full Screen Browser**.

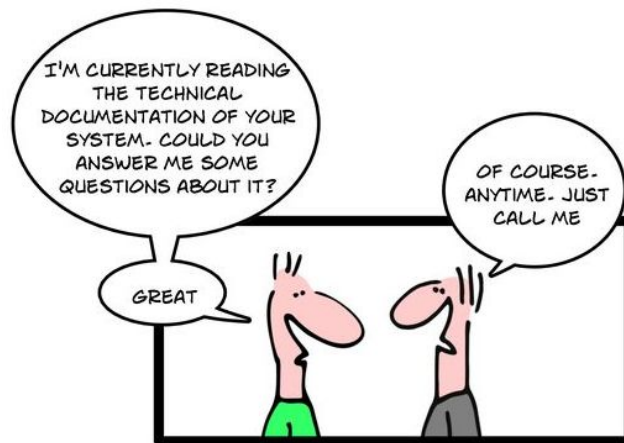
9.3. Generation

Maven plugin showed above include a reveal.js generation.

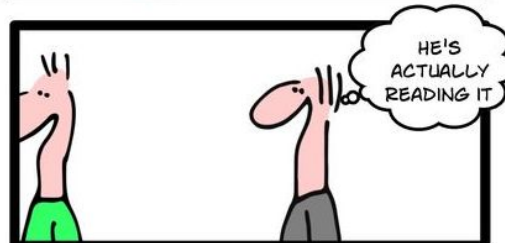
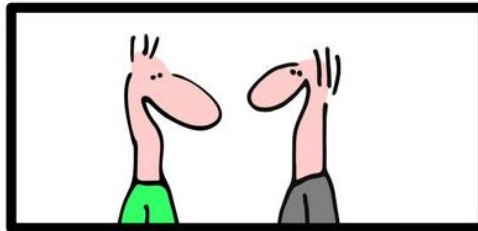
9.4. Inline options

Some options can be added in HTTP address :

- [PRES-asciidoc.html?transition=convex](#)
- [PRES-asciidoc-light.html?slideNumber=false](#)
- <https://revealjs.com/?parallaxBackgroundImage=https%3A%2F%2Fs3.amazonaws.com%2Fhakim-static%2Freveal-js%2Freveal-parallax-1.jpg¶llaxBackgroundSize=2100px%20900px>



geek & poke



10. Appendix

10.1. Revision marks

Differences since last tag

