
ADGen for AsciiDoc (v 2.0.0)

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Version française [asciidoc.fr.html] /

Introduction

AsciiDoc [<http://www.methods.co.nz/asciidoc/>] is a format text intended for the drafting of documents, articles, handbooks and of UNIX man pages.

The documents respecting the AsciiDoc [<http://www.methods.co.nz/asciidoc/>] format can be used same manner as a document normal text. So they can be visualized, published or be printed directly. The files, in conformity with the *AsciiDoc* format, can also be converted into various formats such as: PDF, HTML, DocBook or LinuxDoc.

Programmed in Python and based on XML configuration files, the application *ADGen* has the role to simplify the creation and the deployment of web pages written with the format AsciiDoc [<http://www.methods.co.nz/asciidoc/>]. In addition to the file conversion, *ADGen* makes it possible to internationalize the contents of a web site, to manage the hierarchy of the directories and to set up a side menu in a web page.

Moreover, it makes possible to automatically deploy the files generated by the means of a ftp transfer.

Structure before generation

Structure after generation

Downloads

All version are available on sourceforge.net [<http://sourceforge.net/projects/adgen4asciidoc>] or via links below.

Fichier	Description
ADGen-2.0.0.zip	ADGen version 2.0.0 [http://downloads.sourceforge.net/adgen4asciidoc/ADGen-2.0.0.zip]
	Documentation for the versoin 2.0.0 in PDF format
ADGen-1.2.2.zip	Latest release for <i>ADGen</i> version 1.0 [http://downloads.sourceforge.net/adgen4asciidoc/ADGen-1.2.2.zip]

Installation

Note

Just like *AsciiDoc*, *ADGen* requires **Python 2.3 or more recent** to work. If you do not have `Python` interpreter yet on your system, you can download it on the official site <http://www.python.org/>.

The current version was tested under `Linux (Gentoo)`, `Cygwin` and `Windows`.

There is not currently script of installation for *ADGen* that it is for *GNU/Linux* or for *Windows*. The procedure of installation remains however relatively simple.

GNU/Linux

Simple user

To install *ADGen* intended for a single user, it is enough to decompress the contents of the zip file in a new folder.

To start *ADGen*, move in the installation folder and launch the `adgen.py` command. You can also add the installation folder to your environment variable `PATH` in order to be able to launch the application on any folder.

Mutli-users

For an installation multi-users, decompress the zip as root mode in a new folder and create a symbolic link on the file `adgen.py` in `/usr/bin`.

Example

```
# cd /opt  
  
# unzip [dossier]/adgen-2.0.0.zip  
  
# ln -s /opt/adgen/adgen.py /usr/bin/adgen
```

Consequently, you will be able to launch *adgen* from any directory.

Windows

To install *ADGen* on Windows, it is enough to decompress the contents of the zip file in a new repertory.

To start *ADGen*, move in the installation folder and launch the `adgen.py` command. You can also add the installation folder to your environment variable `PATH` in order to be able to launch the application on any folder.

Configuration

ADGen configuration is carried out by the means of 3 files:

`adgen.conf`

Contains the general configuration of *ADGen*. This file is located in the `$HOME/.adgen` folder.

`ftp.conf`

Optional, this file makes it possible to configure the ftp access for an automatic transfer of web files. This file is located in the `$HOME/.adgen` folder.

`adgen.xml`

Contains the data of the web project to be generated. By default, *ADGen* uses the configuration file located in the folder used to launch the application, however you can specify it using the option `-c`.

Warning

During the first launch of *ADGen*, the files `adgen.conf` and `ftp.conf` are automatically created as example. To use *ADGen*, these files must **imperatively** be configured.

adgen.conf

This configuration file contains all necessary datas for *ADGen*.

```
<?xml version="1.0" encoding="UTF-8"?>
<adgen>
  <browser>
    <linux>/usr/bin/firefox-bin</linux>
    <windows>c:/Firefox/firefox.exe</windows>
  </browser>

  <asciidoc>
    <command>
      <linux>asciidoc</linux>
      <windows>c:/asciidoc/asciidoc.py</windows>

      <extensions layoutFile=".conf" textFile=".txt" webFile=".html"/>
    </command>
  </asciidoc>
</adgen>
```

Tags

browser

linux

Linux command to start a browser.

windows

Idem above for windows.

asciidoc

command

linux Linux *AsciiDoc* command. (*AsciiDoc* must be in the environment variable `PATH` or in your `/usr/bin` folder)

window Path who is located *AsciiDoc* under Windows.

extension Extensions list used by *AsciiDoc*. (by default: `textFile=".txt"`
`webFile=".html"` `layoutFile=".conf"`)

ftp.conf

This file is optional. It allow to define all parameters needed to connect and transfer files to the web server via ftp.

Note

The ftp transfer reproduce **exactly** the same tree structure as that of your local hard disk. For this reason, the web folder, defined in the the project configuration file `adgen.xml`, will be the start point to deploy all files.

```
<?xml version="1.0" encoding="UTF-8"?>
<adgen>
  <ftpConfig>
    <host>[host_name]</host>
    <user>[user_name]</user>
    <password>[user_password]</password>

    <deploy>all</deploy>
  </ftpConfig>
</adgen>
```

Tags

ftpConfig

host

Ftp host address

user

Connexion user (can't be *anonymous*).

password

Connexion password. If you don't want to put your password in the configuration file, you can give it in the command line with the `-p` option. However the password is not optional if you want to transfer

files with ftp.

deploy

Indicate the elements to be transferred on the ftp server. This key can be overridden during launch with the option -d.

all Transfer all files (*web* and *text*)
text Transfer only text files
web Transfer only web files (default option)

adgen.xml

This file makes it possible to configure your project.

It is divided into two sections; `project` which contains the general data of the project and `webContent` which contains the list of the files to be converted.

Tip

In order to simplify the creation of this file, the option -N creates a new configuration file in the current directory.

```
<?xml version="1.0" encoding="UTF-8" ?>
<adgen>
  <project>
    <version>2.0.0</version>

    <folder>
      <work>
        <linux>/home/spytux/web/infra</linux>
        <windows>c:/web/infra</windows>

        <web>/web/infra</web>

        <rootText>text</rootText>
        <rootHtml>..</rootHtml>
      </work>

      <icons>images/icons</icons>
    </folder>

    <layout>
      <tableBased>layout1</tableBased>
      <simulFrame>layout2</simulFrame>
    </layout>

    <tocTitle>
      <title lang="en">Table of content</title>
      <title lang="fr">Table des mati&egrave;res</title>
    </tocTitle>
  </project>

  <webContent backend="xhtml11" defaultLanguage="fr">
    ...

    <!-- ~~~~~ -->
    <!--          SAMPLE PROJECT SECTION          -->
    <!-- ~~~~~ -->
    <section webFolder=".." textFolder="opensource" treeNode="opensource">
      <fileName isNumbered="true" isSimulFrame="true">opensource</fileName>
      <fileName isNumbered="true" isSimulFrame="true">internet</fileName>
```

```
<fileName isNumbered="true" isSimulFrame="true">tools</fileName>
</section>

<section webFolder=".." textFolder="opensource/tools" treeNode="opensource">
  <fileName isNumbered="toc" isSimulFrame="true" lang="fr">AsciiDoc</fileName>
  <fileName isNumbered="toc" isSimulFrame="true" lang="en">AsciiDoc</fileName>
</section>

<section webFolder=".." textFolder="opensource/internet" treeNode="opensource">
  <fileName isNumbered="false" isSimulFrame="true">firefox</fileName>
</section>

...
</webContent>

...
</adgen>
```

Tags

project

This tag contains general information of the project.

version

Allows to specify the version of the generated files.

folder

Allows to configure the sources and destinations folders used by the generator.

work

linux Absolute directory used as root folder when generating under linux.

window Idem above but for Windows.

web Absolute folder used as root for the web deployment via ftp. This folder must exist on the server ftp.

rootText This folder is used as root to find the `.txt` to be converted. It must be given relatively to the directory defined above.

rootHtml This folder is used as root to write the files generated by *AsciiDoc*. It must be given relatively to the directory defined above.

icons

Folder of the Web site containing the icons. This tag is used to inform the option `"iconsdir="` of *AsciiDoc*.

layout

tableBased

Division table based layout

simulFrame

Simulated frames using CSS. (This kind of layout is not supported by Internet Explores 6)

tocTitle

Allow to internationalize the table of content title.

webContent

This tag contains the list of documents to be converted via *AsciiDoc*.

webContent

Its attributes are as follows:

backend	indicate the backend used by <i>AsciiDoc</i> for the generation of the files. (optional)
defaultLanguage	Allows to specify the default language of the generated pages. This attribute can be overridden for each document.

section

Allows to configure the documents to be converted. It is necessary to define a tag section by folder.

The attributes are as follows:

webFolder	Relative path to the tag <i>work</i> (higher defined) in which the generated files will be saved.
textFolder	Relative path to the tag <i>work</i> (higher defined) containing the files to be converted.
treeNode	Allows to specify the node to be used in the side menu of the web page.

fileName

Name of the file to be converted (without the extension)

The attributes are as follows:

isNumbered	<i>true</i> or <i>notoc</i> if sections of the document must be numbered, <i>toc</i> or <i>toc_X</i> (X indicates the level number of the contents (1..4)) to have table of content and numbered sections and <i>false</i> or <i>none</i> in contrary case. If this attribute is not present, the sections are not numbered (idem <i>false</i> or <i>none</i>). (optional)
isSimulFrame	<i>true</i> to use the frame simulated layout and <i>false</i> to use the traditional layout.
lang	Allows to specify the language of the current document. (optional)

Note

The documents translated in several languages will have to be saved with initial language before the file extension:

Source	Destination
asciidoc.en.txt	-> asciidoc.en.html
asciidoc.fr.txt	-> asciidoc.fr.html
defaultLanguage	-> asciidoc.html

Menus and Attributes

Some attributes as been added to manage new ADGen functionalities. These attributes can be used in the layouts configuration file

{baseFolder}

The variable {baseFolder} is replaced by the webFolder tag content.

```
<link rel="stylesheet"
      href="{stylesdir={baseFolder}stylesheets}/{theme={backend}}.css"
      type="text/css" />
```

{iconsdir}

The attribute {iconsdir} is replaced by the tag icons. This attribute can be used to indicate the web site icons folder.

```
<link rel="shortcut icon" href="{iconsdir}/mini_logo.png" />
<link rel="icon" href="{iconsdir}/mini_logo.png" />
```

{language}

The tag {language} can be defined to set the variable Content-Language.

```
<meta http-equiv="Content-Language" content="{language}" />
```

{tocTitle}

This tag allow to internationalize the title used during table of content generation.

```
ifdef::toc[]
  <script type="text/javascript"
        src="{scriptsdir={baseFolder}scripts}/toc.js">
  </script>
endif::toc[]

...

ifdef::toc[]
  <div id="toc">
    <div id="toctitle">{tocTitle}</div>
    <noscript>
      <p><b>
        JavaScript must be enabled in your browser to display the table of contents.
      </b></p>
    </noscript>
  </div>
endif::toc[]
```

The management of the menus is carried out on the level of the file of parameter setting of the layouts. The state of a menu can either be opened, or closed; this is determined by the tag treeNode in the

configuration file (*XML*).

```
<!-- ~~~~~ -->
<!--                               SAMPLE MENU                               -->
<!-- ~~~~~ -->
ifndef::opensource[]
  
  <a href="{baseFolder}opensource/opensource.html">OpenSource</a>
endif::opensource[]
ifdef::opensource[]
  
  <a href="{baseFolder}opensource/opensource.html">OpenSource</a>
  <div id="sub-menu">
    <div><a href="{baseFolder}opensource/internet.html">Internet</a></div>
  </div>
  <div id="sub-menu">
    <div><a href="{baseFolder}opensource/tools.html">Outils</a></div>
  </div>
endif::opensource[]
```

Use

By default, the *adgen.py* application treats the entirety of the file of configuration. It is however possible to personalize the execution using the options described below.

Options

- h, --help
Show help message and exit
- N, --newproject
Create a new project configuration file *adgen.xml* in the current directory
- b, --browse
Open the browser to visualize the page. If the option *-f* is not specified, the *index.html* page is open.
- c XMLCONFIGFILE, --config=XMLCONFIGFILE
Allows to specify the file of configuration XML to be used (by default: *ADGenConf.xml*)
- d, --deploymode
Allows to override the ftp deployment mode (values: *text*, *web* or *all*)
- f FILE(S), --file=FILE(S)
Allows to specify files to be treated (without the extension). Multi-files can be separated with comma.
- o, --output
Allows to overload the *rootHtml* value during execution
- p, --password
Allows to specify the password used to access to the ftp server if it isn't specified in the *XML* configuration file.

-t, --transfer

Transfer generated files on the ftp server.

-v, --verbose

Display all commands and their parameters.

-V, --Version

ADGen Version and copyright

Development

Architecture

This chapter presents the architecture of the application *ADGen* such as you will find it in the release zip file.

```
adgen
  /docs
    adgen.en.txt      English documentation
    adgen.fr.txt      French documentation
    changelog.txt     Follow-up of the modifications (English)

  /config
    configHelper.py   Basic class for the management of the configuration files xml
    adgenConfig.py     Management of the file 'adgen.conf'
    ftpConfig.py       Management of the file 'ftp.conf'
    projectConfig.py  Management of the file 'adgen.xml'

  /ftp
    ftpManager.py     Class for the management of ftp transfers

  /util
    adgenDebug.py     'debug' methods for the application
    adgenI18N.py       Manage the internationalization of the application

  adgen.py            Main application
```

Todo

Below, the list of the various functionalities having to be developed for the deliveries to come:

- Simplify the management of the side menu by taking of account information of the project configuration file `adgen.xml`
- Create a graphic user interface
- Direct call of *AsciiDoc* methods (without using a sub-process)
- Support other *AsciiDoc* options