
ADGen for AsciiDoc (v 2.2.0)

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Version française [adgen.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

Screenshots

Content tab

Preferences Tab

Add file

Downloads

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

Fichier	Description
ADGen-2.2.0.tar.gz	Independant platform [http://downloads.sourceforge.net/adgen4asciidoc/adgen-2.2.0.tar.gz]
ADGen_2.2.0_i386.deb	Linux Debian / Ubuntu package 32 bit [http://downloads.sourceforge.net/adgen4asciidoc/adgen_2.2.0_i386.deb]
ADGen_2.2.0_amd64.deb	Linux Debian / Ubuntu package 64 bit [http://downloads.sourceforge.net/adgen4asciidoc/adgen_2.2.0_amd64.deb]
ADGen-win-2.2.0.zip	Windows release (without setup) [http://downloads.sourceforge.net/adgen4asciidoc/adgen-win-2.2.0.zip]
Documentation for the version 2.2.0 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]

Tip

The creation of Debian packages from python source was done using the tutorial "creating a .deb package from a python setup.py" [<http://ghantoos.org/2008/10/19/creating-a-deb-package-from-a-python-setuppy>]

Installation

Note

Just like *AsciiDoc*, *ADGen* requires **Python 2.4 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 (Ubuntu)` and `Cygwin` (in command line) with `AsciiDoc 8.2.6` [<http://www.methods.co.nz/asciidoc/>].

GNU/Linux

Manual installation

To perform a manual installation of the application *ADGen* in a Linux environment, simply extract the archive `.tar.gz` then run the setup script.

Sample

```
$ tar xvfz adgen-2.2.0.tar.gz
$ cd adgen-2.2.0
$ sudo python setup.py install
```

Package Debian / Ubuntu

Since version 2.2.0 and above, you can install *ADGen* through a Debian package. These are available for a 32 bit (*i386*) or 64-bit (*amd64*) architecture.

Windows

There is currently no installation script for *ADGen Windows*. The installation procedure is still relatively simple since you just need to extract the zip file in a new directory.

To start *ADGen*, move in the installation folder and launch the `adgen.py` or `adgengui.py` depending on whether you want to work in command line or with the GUI. You can also add the installation folder to your environment variable `PATH` in order to be able to launch the application on any folder.

Warning

The graphical version requires `gtk`. Normally, it must be running on Windows however **no tests have been performed** in this configuration.

Configuration files

If you are not using the GUI or you have problems with configuration files. You will find in this chapter the organization and contents of all files used by *ADGen*.

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.adg` ou `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>
  <editor>
    <linux>gedit</linux>
    <windows>D:\Editra\Editra.exe</windows>
  </editor>
  <asciidoc>
    <command>
      <linux>asciidoc</linux>
      <windows>c:/asciidoc/asciidoc.py</windows>

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

Tags

`asciidoc`

`editor`

linux Text editor used in the Linux environment (it must be in the environment variable `PATH` or `/usr/bin`)

window Text editor used in Windows environment

`command`

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

windowPath who is located *AsciiDoc* under Windows.

extensions 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.adg (ou 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` in the command line create for a new empty 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&grave;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 Explorer 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 *AsciiDoc* 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 *work* (higher defined) in which the generated files will be saved.

`textFolder` Relative path to the tag *work* (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` *true* or *notoc* if sections of the document must be numbered, *toc* or *toc_X* (X indicates the level number of the contents (1..4)) to have table of content and numbered sections and *false* or *none* in contrary case. If this attribute is not present, the sections are not numbered (idem *false* or *none*). (optional)

`isSimulFrame` *true* to use the frame simulated layout and *false* 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
<code>asciidoc.en.txt</code>	<code># asciidoc.en.html</code>
<code>asciidoc.fr.txt</code>	<code># asciidoc.fr.html</code>
<code>defaultLanguage</code>	<code># asciidoc.html</code>

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 con
      </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          -->
<!-- ~~~~~ -->
ifdef::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[ ]
```

Using command line

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*.

/src	
/adgen	
/config	
adgenConfig.py	Management of the file 'adgen.conf'
adgenConstants.py	Applications constants
configHelper.py	Basic class for the management of the configuration f
ftpConfig.py	Management of the file 'ftp.conf'
projectConfig.py	Management of the file 'adgen.adg' or 'adgen.xml'
/core	
adgenCore.py	Common class used by command line and graphical mode
helper.py	Helper functions
/ftp	
ftpManager.py	Class for the management of ftp transfers
/gui	
/component	
contentTreeView.py	TreeView component used to manage the project file ('
logEvents.py	Component used to display all I/O
tocTreeView.py	Component used to manage translation of toc
/glade	
adgen.glade	Graphical interface for the application
adgen.svg	Logo used by glade
/icons	
	All icons used by the application
/widget	
aboutWidget.py	'About' dialog box
addContentWidget.py	Dialog box used to manage project file or section
addTocWidget.py	Dialog box used to add a new language for the toc tit
fileChooserWidget.py	Dialog box used for the 'file open/save'
messageWidget.py	Dialog box used to display messages
preferencesWidget.py	Dialog box used to manage 'ADGen' global preferences
adgen.desktop	Usefull for the creation of the Gnome launcher
/util	
adgenI18N.py	Manage the internationalization of the application
logTool.py	Allows you to centralize all I/O messages sent to std
adgen.py	Main application
adgenGui.py	Main application for the graphical mode
/bin	
adgen	Shell script to launch 'ADGen' in command line
adgenGui	Shell script to launch 'ADGen' in graphical mode
/debian	
	Contains files needed to create Debian / Ubuntu packag

/docs	
adgen.en.txt	English documentation
adgen.fr.txt	French documentation
CHANGELOG	Follow-up of the modifications (English)
COPYING	Terms of the GPL license
INSTALL	Installation procedure
Makefile	Make file to build Debian / Ubuntu package
MANIFEST.in	Manifest used by 'setup.py' during application packaging
README	
release.sh	Helper script to create the release
setup.py	Helper script for 'ADGen' installation
uninstall.sh	Helper script useful if you want to uninstall 'ADGen'

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`
- Direct call of *AsciiDoc* 8.4.2 new APIs (without using a sub-process)
- Support other *AsciiDoc* options
- Allow to transfer ftp files without AsciiDoc transformation