Maven PDF Plugin v.2.5.1

Project Documentation

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1.1 **About**

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Maven PDF Plug-in

This plug-in allows you to generate a PDF version of your project's documentation.

To enable PDF generation add the following to your maven.xml

```
<postGoal name="site">
  <attainGoal name="pdf"/>
</postGoal>
```

You can also add the PDF generation to your project.xml like this :

```
<reports>
  <report>maven-pdf-plugin</report>
<reports>
```

The links to the pdf file in the reports page and in the reports menu are correct only if the xdoc plugin 1.10 or above is used.

Take a look at goals, properties and the FAQ to see how to customize it.

Known issues

- There is a known problem with the PDF generation tool (Apache's FOP) in that it doesn't allow for table structures with automatic column widths to be generated. Widths are uniformly distributed.
- Due to several problems, it is actually impossible to reference the same file in different items in navigation.xml. You must define another navigation file (using the property "maven.pdf.navigationFile") which you'll use only with the PDF plug-in. This navigation cannot define several items with the same href.
- Identical id attributes within one document will lead to a build failure.
- Contrary to the xdoc plugin, the pdf plugin does not generate anchors from section or subsection names. If you want to reference a section or subsection you have to use the optional id tag.
- Other issues are available in Jira.

1.2 **Goals**

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Goals

Goal	Description
fo	This simply pre-requisites the `fo:fo` goal.
fo:fo	Generates an fo xml document from the `navigation.xml` file supplied as part of the documentation. Please note that as yet, no sanity check is done to make sure this file exists.
pdf	This is the default goal of the plugin and simply pre-requisites the `pdf:pdf` goal.
pdf:pdf	Generates a PDF document containing all project documentation. The PDF is generated from the .fo file generated in the `fo:fo` goal.
pdf:navigation-validate	Validates `${maven.pdf.navigationFile}`.
maven-pdf-plugin:register	Register the pdf generation after the site goal.
maven-pdf-plugin:deregister	Deregister the pdf generation.
maven-pdf-plugin:report	Called by xdoc to execute the pdf goal.

1.3 **Properties**

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Maven PDF Plugin Settings

This properties are used by the plugin and can be redefined by the user.

PDF content customization

Property name	Description	Optional?	Default value
maven.pdf.confidential	Add a confidential text to the footer of each page.	Yes	`false`
maven.pdf.paperType	Paper type for the generated PDF file. Available formats are : • `A4` : 8.25in x 11.70in • `US` : 8.5in x 14in • `USLetter` : 8.5in x 11in	Yes	`A4`
maven.pdf.companyIncName	The company name printed on each page footer beside the copyrigth.	Yes	`${pom.organization.name}`
maven.pdf.copyrightYear	The year for the copyright.	Yes	By default, gets constructed like: "`${pom.inceptionYear}-build_year`", or just "`build_year`" if the two are equal (or if `${pom.inceptionYear}` is undefined).
maven.pdf.imageDpi	Images resolution.	Yes	`75`
maven.pdf.createBookmarks	Add PDF bookmarks.	Yes	`false`
maven.pdf.navigationFile	Filename for the navigation file used to generate the PDF. It allows to separate the content of the site and the content of the PDF documentation.	Yes	`navigation.xml`
maven.pdf.navigationFilePath	The directory where the ${maven.pdf.navigationFile} can be found. This is useful to define it if this file is generated for example.	Yes	`${maven.xdoc.src}`
maven.pdf.projectLogo	Project logo URL (or relative path).	Yes	`${pom.url}${pom.logo}`
maven.pdf.companyLogo	Company logo URL (or relative path).	Yes	`${pom.organization.url}${pom.organization.logo}`
maven.pdf.cover.projectCompany	Company name printed on the cover.	Yes	`${pom.organization.name}`
maven.pdf.cover.projectName	Project name .	Yes	`${pom.name}`
maven.pdf.cover.type	Type of documentation.	Yes	`Project Documentation`
maven.pdf.cover.version	Project/Document version printed on the cover.	Yes	`${pom.currentVersion}`
maven.pdf.cover.date	The date printed on the cover.	Yes	`Empty`. The build date is used.
maven.pdf.cover.headerHeight	The height of the cover header.	Yes	Defaults to `0.5in`.
maven.pdf.cover.footerHeight	The height of the cover footer.	Yes	Defaults to `0.3in`.

Project parameters

Property name	Description	Optional?	Default value
maven.docs.src	The source directory for the user xml documentations files.	Yes	`${basedir}/xdocs`
maven.docs.dest	The destination directory for PDF documentation. Images are also retreived from this directory.	Yes	`${maven.build.dir}/docs/`
maven.gen.docs	The directory for generated xdocs used to create the pdf document.	Yes	`${maven.build.dir}/generated-xdocs/`
maven.pdf.pdfName	The name of the generated pdf file.	Yes	`${pom.artifactId}.pdf`

Technical parameters

Property name	Description	Optional?	Default value
maven.pdf.debug	Debug the pdf generation process.	Yes	`false`
maven.jar.jimi	Jimi OR Jai libraries must be declared if you want to use PNG images in your pdf document. Jimi and Jai cannot be distributed via ibiblio, so you must add the path to one of these libraries in your project properties. For example : `maven.jar.jimi=${maven.repo.local}/jimi/jars/jimi-X.Y.Z.jar`	Yes	`Empty.`
maven.jar.jaicore maven.jar.jaicodec	Jimi OR Jai libraries must be declared if you want to use PNG images in your pdf document. Jimi and Jai cannot be distributed via ibiblio, so you must add the path to one of these libraries in your project properties. For example : `maven.jar.jaicore=${maven.repo.local}/jai/jars/jai_core-X.Y.Z.jar` `maven.jar.jaicodec=${maven.repo.local}/jai/jars/jai_codec-X.Y.Z.jar`	Yes	`Empty.`

1.4 **FAQ**

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Frequently Asked Questions

Plugin Usage

1. How do I use the PDF Plugin ?
2. How do I use the PDF Plugin with a multiproject ?
3. Which types of images can I use in my documents ?
4. How can I insert png images in my pdf ?

Plugin Usage

How do I use the PDF Plugin ?

- First you must call the maven target `site` to generate all the xdocs files and the image ressources.
- Then you can call the `pdf` target to generate the pdf documentation for your project.

To automate the pdf creation you can add a post goal to the site like this :

```
<postGoal name="site">
  <attainGoal name="pdf"/>
</postGoal>
```

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How do I use the PDF Plugin with a multiproject ?

To generate a PDF from documentations defined in several sub-projects, you must copy all the xdocs files from these projects.

Here is an example on how to do it :

```
<attainGoal name="multiproject:site"/>
<maven:reactor
  basedir="${basedir}"
  postProcessing="true"
  includes="**/project.xml"
  collectOnly="true"
  ignoreFailures="false"
  collectionVar="multiprojects"/>
<!-- We copy the generated files to use them in the pdf -->
<j:forEach var="reactorProject" items="${multiprojects}">
  <j:set var="fromDir"
value="${reactorProject.context.getVariable('maven.gen.docs')}"/>
  <ant:copy
todir="${maven.build.dir}/pdf/${maven.multiproject.aggregateDir}${reactorProject.artifactId}">
    <ant:fileset dir="${fromDir}" force="true">
```

```
      <ant:include name="**/*.*"/>
    </ant:fileset>
  </ant:copy>
</j:forEach>
<attainGoal name="pdf"/>
```

You can also createa dynamic menu using Velocity macro in your navigation.xml file. For example :

```
<project name="$pom.name">
  <body>
    <links/>
    <menu name="Overview">
        #if ($overviewPageCreate == "true" )
        <item name="${overviewPageLinkTitle}"
href="${overviewPageLink}.html"/>
        #end
    </menu>
    <menu name="Sub-Projects">
        #foreach ($reactorProject in $multiprojects)
        <item name="$reactorProject.name"
href="/${aggregateDir}${reactorProject.artifactId}/index.html"/>
        <item name="$reactorProject.name test"
href="/${aggregateDir}${reactorProject.artifactId}/test.html"/>
        #end
    </menu>
  </body>
</project>
```

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Which types of images can I use in my documents ?

You can use images types that FOP can use.

The table below summarizes the *theoretical* support for graphical formats within FOP.

Format	Type	Support Thru
BMP (Microsoft Windows Bitmap)	bitmap	FOP native
EPS (Encapsulated PostScript)	metafile (both bitmap and vector), probably most frequently used for vector drawings	FOP native (limited support, see restrictions below)
GIF (Graphics Interchange Format)	bitmap	FOP native
JPEG (Joint Photographic Experts Group)	bitmap	FOP native
PNG (Portable Network Graphic)	bitmap	JIMI (using the property "maven.jar.jimi") or JAI (using properties "maven.jar.jaicore" and "maven.jar.jaicodec")

Format	Type	Support Thru
SVG (Scalable Vector Graphics)	vector (with embedded bitmaps)	Batik
TIFF (Tag Image Format File)	bitmap	FOP native or JAI (using properties "maven.jar.jaicore" and "maven.jar.jaicodec"), depending on the subformat. See TIFF for more details.(JIMI also supports TIFF, but this has not been implemented within FOP).

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How can I insert png images in my pdf ?

You must download and put somewhere on your disk JAI or JIMI (on your repository is a good place for it).

Then you must register the one you installed with for JIMI :

```
maven.jar.jimi=${maven.repo.local}/jimi/jars/jimi-X.Y.Z.jar
```

Or for JAI :

```
maven.jar.jaicore=${maven.repo.local}/jai/jars/jai_core-X.Y.Z.jar
maven.jar.jaicodec=${maven.repo.local}/jai/jars/jai_codec-X.Y.Z.jar
```

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1.5 **Downloads**

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Downloads

Maven PDF Plugin v2.0	2.0
Maven PDF Plugin v2.1	2.1
Maven PDF Plugin v2.2	2.2
Maven PDF Plugin v2.2.1	2.2.1
Maven PDF Plugin v2.3	2.3
Maven PDF Plugin v2.4	2.4
Maven PDF Plugin v2.5	2.5
Maven PDF Plugin v2.5.1	2.5.1

1.6 **History**

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Release History

Version	Date	Description
2.5.1	2007-03-28	
2.5	2006-07-21	
2.4	2005-09-05	
2.3	2005-06-16	
2.2.1	2004-10-30	
2.2	2004-09-27	
2.1	2004-05-15	
2.0	2004-03-10	Beta Release.
1.2	2003-09-29	
1.1	Unknown	

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Release 2.5.1 - 2007-03-28

Type	Changes	By
	Unable to remove cover type and version. Fixes MPPDF-57.	ltheussl

Release 2.5 - 2006-07-21

Type	Changes	By
	Upgrade to Xalan 2.7.0. Fixes MPPDF-55.	aheritier
	Upgrade to Xerces 2.8.0. Replace the deprecated xmlParserAPIs by xml-apis 1.3.03. Add the xml-resolver dependency for xerces. Fixes MAVEN-1753.	aheritier
	An icon is added to the report entry in the navigation. Works only with the xdoc plugin 1.10 and above.	aheritier

Type	Changes	By
	The links generated in the reports list are wrong. Works only with the xdoc plugin 1.10 and above.	aheritier
	New property `maven.pdf.createBookmarks` to create PDF bookmarks. Thanks to Greg Ludington.	ltheussl
	Title and dates are incorrect when used with Maven 1.0.2. Fixes MPPDF-53.	ltheussl
	Identical ids in tables in different documents caused a build failure. Fixes MPPDF-54.	ltheussl
	Update dependencies to match ones in maven 1.1 core and to unify them between plugins. Fixes MAVEN-1712.	aheritier
	An error occurs if the project logo or the company logo aren't defined. Fixes MPPDF-47.	aheritier
	Page numbering not correct with more than 10 items in menu. Fixes MPPDF-37.	ltheussl
	New goal `pdf:navigation-validate` to validate the pdf navigation file. Fixes MPPDF-48.	ltheussl
	Fix `maven.pdf.cover.projectCompany`. Fixes MPPDF-50.	ltheussl
	Make cover header- and footer-height configurable.	ltheussl
	Use optional id tag for sub/section anchors to avoid problems with identical names. Fixes MPPDF-40.	ltheussl

Release 2.4 - 2005-09-05

Type	Changes	By
	Make the plugin compatible with maven 1.0 and jdk 1.3/1.4/1.5 or with maven 1.1 and jdk 1.4/1.5.	aheritier
	sub-/superscripts do not work. Fixes MPPDF-43. Thanks to Lukas Theussl.	aheritier
	Error when logo locations are not set. Fixes MPPDF-42. Thanks to Lukas Theussl.	aheritier
	Suppress verbose output by default. Fixes MPPDF-41. Thanks to Lukas Theussl.	aheritier

Type	Changes	By
	Missing patch for MPPDF-24 (it defines a missing attribute for < code style="indent" > tags and cleans up some layout issues with definition lis ts). Fixes MPPDF-39. Thanks to Lukas Theussl.	aheritier
	Standardize copyright notices. Fixes MPPDF-35. Thanks to Lukas Theussl.	aheritier
	Fix some "contents overflows area" errors. Fixes MPPDF-33. Thanks to Valerie Nyre.	aheritier
	Cannot use SVG images. (batik: java.lang.NoSuchMethodError.) Fixes MPPDF-32. Thanks to Lukas Theussl.	aheritier
	Can't insert the logo image described in the POM if its path begins with a slash (as it works for the xdoc plugin). Fixes MPPDF-31. Thanks to Lukas Theussl.	aheritier
	Allow copy and paste from pdf to text editor. Fixes MPPDF-22. Thanks to Lukas Theussl.	aheritier
	Allow the pdf plugin to be added as a project's report. Fixes MPPDF-9. Thanks to Fabrizio Giustina.	aheritier
	Add support for external imaging libraries like jimi and jai to use PNG images in generated pdf files. Fixes MPPDF-8. Thanks to Fabio Franco Uechi.	aheritier
	PDF generation doesn't use proxy settings for external resources. Fixes MPPDF-7.	aheritier

Release 2.3 - 2005-06-16

Type	Changes	By
	Use the ant task for the xsl transformation and remove xerces and xalan dependencies. People using java 5 will have to use this release with maven 1.1 or maven 1.0 with at the most the PDF plugin 2.2.X. Fixes MPPDF-38.	aheritier
	Use the ant task for the fop transformation and remove xalan dependency.	aheritier
	maven pdf fails with footer in navigation.xml. Fixes MPPDF-36. Thanks to Lukas Theussl.	aheritier
	The first row of table is not rendered. Fixes MPPDF-30. Thanks to Lukas Theussl.	aheritier
	Internal links failed. Fixes MPPDF-24. Thanks to Lukas Theussl.	aheritier

Type	Changes	By
	img src attributes are not made relative to the xdoc source. Fixes MPPDF-13. Thanks to Lukas Theussl.	aheritier

Release 2.2.1 - 2004-10-30

Type	Changes	By
	The content of style tag was printed on the PDF file. Fixes MPPDF-21.	aheritier
	JDK 5.0 incompatibility. XSLT is now called from Jelly. Fixes MPPDF-16. Thanks to Archimedes Trajano.	aheritier

Release 2.2 - 2004-09-27

Type	Changes	By
	PRE tag support added. Fixes MPPDF-14.	aheritier
	Show "v." in cover only when version is not empty.	carlos
	The new property "maven.pdf.navigationFilePath" allows you to define a different directory from ${maven.xdoc.src} for the navigation file. From now, the PDF plugin can be used in a multiproject environment with a navigation file dynamically generated. Fixes MPPDF-12.	aheritier
	Add USLetter (8.5"x11") as a paper type. Fixes MPPDF-10. Thanks to M. Sean Gilligan.	aheritier

Release 2.1 - 2004-05-15

Type	Changes	By
	Add xml-apis and xalan dependencies for JDK 1.3.	brett

Release 2.0 - 2004-03-10

Type	Changes	By
	- The PDF generation works if paths used in navigation.xml don't begin with a '/'. - The date on the cover worked for all projects (not only maven). Fixes MPPDF-6. Thanks to Arnaud Heritier.	evenisse
	- Tables management XSL code cleaned (duplications removed) and simplified. - Tables with THEAD/TBODY and tables with a first row compound of th have the same look : They use a table header which is copied on each page. - The cover is improved. - Internal and external links are differently colored. - XSL styles are extracted in a single file. Fixes MPPDF-5. Thanks to Arnaud Heritier.	evenisse
	Upgraded to xerces 2.4.0, fop 0.20.5, batik 1.5	evenisse
	A new plugin property (maven.pdf.navigationFile) is added to allow the users to have a different navigation file for the site and for the pdf doc. Fixes MPPDF-3. Thanks to Arnaud Heritier.	evenisse
	The use of links inside xdocs don't lead to crash the PDF generation. Fixes MPPDF-2. Thanks to Arnaud Heritier.	evenisse
	MAVEN-MPPDF-1. Completely re-write of the PDF plug-in. It solves most of the thorniest issues, such as table formatting, more levels in the table of contents, and image sizing. The graphic design is also dramatically improved. Fixes MPPDF-1. Thanks to Andrew Jaquith.	evenisse

Release 1.2 - 2003-09-29

Type	Changes	By
	update to use maven.docs.*/maven.gen.docs	dion

Release 1.1 - Unknown

Type	Changes	By
	Upgraded to xerces 2.3.0, xalan 2.4.1 and fop 0.20.5rc2	dion

Type	Changes	By
	Added more documentation	dion
	Fix plugin and fo stylesheet to get plugin working again	dion
	Added table support. Thanks to Kai Runte.	evenisse

1.7 **PDF Documentation**