

ARONDOR VIEWER: A NEW AND EASY-TO-USE SOFTWARE FOR DOCUMENT VIEWING. IT HAS BEEN DESIGNED TO HELP USERS TO READ AND WORK ON DOCUMENTS. PUBLISHED BY ARONDOR, IT HAS THE FOLLOWING FEATURES:

Technical

- 100% HTML : no client-side deployment
- 100% on-demand streaming :
 content is fetched when shown on
 a per-page basis (no client-side
 document download)
- On-the-fly document rendition
- PDF and Microsoft Office document formats supported
- More than 130 image formats supported
- IBM FileNet Integration

Features

- Clipboard support (copy text fragments)
- Thumbs view
- Table of contents view
- Scrollable reading (using the mouse wheel)
- Annotation support
- Zoom and quick navigation

More to Come

- PDF OCR
- Full-text dynamic search
 (...)

Web usability

- Easy to use and intuitive
- Compatible with on lots of browsers such as Internet Explorer, Mozilla Firefox, etc.
- Ergonomic and convenient



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1. INTRODUCTION:

STATE OF THE ART CLIENT-SIDE VIEWING

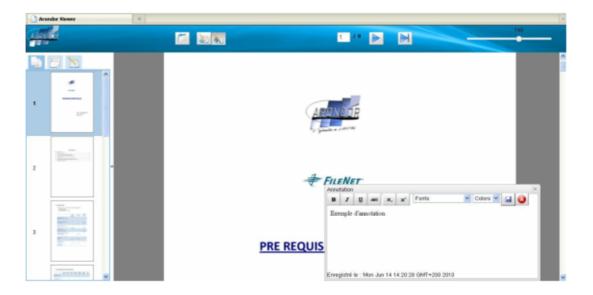
With the tremendous increase of digitized documents and contents, ECM solutions have quickly evolved over the last ten years, providing feature-full and ergonomic web-based solutions. However, content viewing and manipulation did not benefit from these revolutions, remaining restrained to thick client solutions, neither using legacy software solutions (Adobe © Acrobat) nor Java-based applets.

Arondor Viewer fills this gap, by providing feature-rich content viewing to end-users in a light and integrated way:

- 100% Web-based: using Google's GWT framework, ArondorViewer is designed to be seamlessly deployable, cross-browser compliant, and with no client-side installation
- Fully embeddable: being self-contained in a standard Web page, ArondorViewer can be easily integrated in all Web-based ECM solutions, leveraging ECM solutions by associating meta-data and contents in a single Web page.
- Multi-format and extensible: by using standard formats and technologies to carry document contents to end-users, Arondor Viewer can handle both document formats, including PDF and Microsoft Office documents, and more than 130 image formats, including JPEG, TIFF, BMP.



2. ARONDOR VIEWER: FEATURES



Arondor Viewer is designed to facilitate users to display, read and work on documents. This software has been made by our team with ease of use and ergonomy in mind. The main page is divided in 3 sections:

- A toolbar (on the top of the page) with basic functionalities such as a zoom on the page or arrows to go to another page. Easy to take it in hand, user can access to functionalities in one click.
- A panel with tabs (on the left) which contains lists of document pages, bookmarks and annotations.
- The document content, displayed on the rest of the page for the most comfortable display.

Arondor Viewer is designed to be compatible with the most prevailing Internet browsers. Indeed, the software works on the most used browsers like Internet Explorer (version 6, 7 and 8), Mozilla Firefox (2.x, 3.x), Google Chrome, Apple Safari, Opera and mobile-based browsers.



2.1. TOOLBAR FEATURES

On the toolbar features which is on the top of the viewer page, user can access to the following functionalities:

- Download a document using browser icon:
 By clicking on this icon, user can download the document he wants by searching in the local disk (e.g.: « My Computer »).
- Add an annotation to the document using the icon:
 By clicking on this icon, user can add an annotation on the document all over he wants. The software records the annotation on the page where it has been created. The position, the content and the typology (sized, color and style of

characters) are saved on the added annotation.

The annotation pop-up is displayed as represented below on the screen shot:



The pop-up contains itself a toolbar with formatting options. Amongst the available options, it is possible to change the characters, the color, the style or underline a text. When user records the created annotation by clicking on this button , the date of the last update appears on the bottom of the pop-up. User can also delete the annotation by clicking on . A window will be opened with a message to confirm or not the deletion. A list of all annotations in the document is contained in the left panel. For more details, see 3.2 Left panel features.



Show and hide annotations by clicking on :

All annotations from all pages could be hidden and shown thanks to this button. User can choose to see the document without annotation by clicking on the icon. This is convenient to visualize the original document as user does not have to close each annotation one by one. If the button is selected, he will see all annotations.

· Go everywhere on the document

To read the document, user can:

- Click on the arrow located on the top toolbar like . Then, user can go to the first, last, previous or next page with only one click.
- Enter a page number on this textbox: 1 7 135. This is convenient if the document has lots of pages. User does not have to see each page.
- Turn the mouse wheel to go to the previous and next page
- Click on the thumb picture on the left panel

Zoom on the page with the scroll bar :

User can zoom or zoom out the document thanks to the scroll bar which contains a graduation (from -5 to 5).



2.2. LEFT PANEL FEATURES

The panel on the left is composed of 3 parts:

• 🔲 : The list of pages

This part is composed of miniature pictures of the pages' document which allows user to navigate on the document by clicking on the small picture. The display has a scrollbar to find a page quickly.

The document's table of contents

This software can also recognize the document's chapters. If user clicks on one of them, the current page of this bookmark will be displayed.

The list of annotations

This is a list of all annotations of the current document. If user clicks on one of them, the page of the current annotation will be displayed.

2.3. PAGE FEATURES

Optimization of the screen space to display the document

The software has been designed to optimize the document space. The document is displayed on a spacious part of the screen in order to have a best view on the document. Moreover, if user considers it useful to make the document larger, a double-click between the left panel and the page hides the left panel.



Text selection

The text of the PDF can be reused. Arondor Viewer allows to select the text on the document and to copy the selected text in the clipboard. From now on, user can just select a text with the mouse and copy it to any application, such as a MS Office Document.

Below, an example of special fonts which demonstrate the selected text works for all characters and even if it is not a latin font:

Scrollable page

The current page is scrollable, so user has just to move the mouse wheel to see the beginning or the end of the document.



3. PRE-REQUISITES

Arondor Viewer has the following pre-requisites:

At client side:

A Javascript-enabled Browser such as: Internet Explorer (6.0 or newer),
 Mozilla Firefox (2.0 or newer), Apple Safari

At server side:

- Supported operating systems are: Microsoft Windows and GNU/Linux (any distribution)
- A J2EE compatible Application Server running JVM 1.5 or newer (tested on WebSphere 6.0 or newer and JBoss 4.1 or newer)
- A running installation of ImageMagick (including GhostScript), version (6.5.9 or newer)



4. ARONDOR VIEWER: ROADMAP

ArondorViewer Roadmap:

Technology Preview (2010 – March) :

- PDF viewing and browsing
- See functionalities described above

Version 1 (2010 – June) :

- IBM FileNet integration, including :
 - Content fetching from Content Engine,
 - Annotation persistence from/to Content Engine
 - ArondorViewer embedded in IBM FileNet Workplace
- Microsoft Office document viewing
- TIFF, Jpeg, PNG and other miscelaneous image formats support
- Adaptative zoom: automatic content quality increase while zooming (larger, more detailed image appears at higher zoom factors)

Version 2 (2011 – 1st quarter) :

- Other ECM solutions integration (to be defined)
- In-document full-text search
- OCR seamless integration, when PDF is image-only
- Various E-mail formats support
- Document manipulation
 - Page re-ordering
 - Multi-documents split and merge features



5. ABOUT ARONDOR

Specialized in ECM (Electronic Content Management), Arondor was founded by ECM specialists. This company provides services and ranged solutions corresponding to client's needs. From projects designed for lots of users to solutions designed for few users, from huge structures to SMEs, Arondor fits the suggestions by building solutions thanks to recognized business software.

For more details, see the website www.arondor.com