Customizing the FPR

VMs: amcamp_03.archivematica.org
to amcamp_11.archivematica.org

https://bit.ly/AMCampYork -> Slides ->
Customizing the FPR

Archivematica Format Policies

Format policies are essentially simple rules to be applied to digital objects of a particular format, for a particular preservation purpose

Format → applies to → **Rule** → is for a particular preservation → **Purpose**

Rule → **Command** (executes a)

Command → **Tool** (using a)
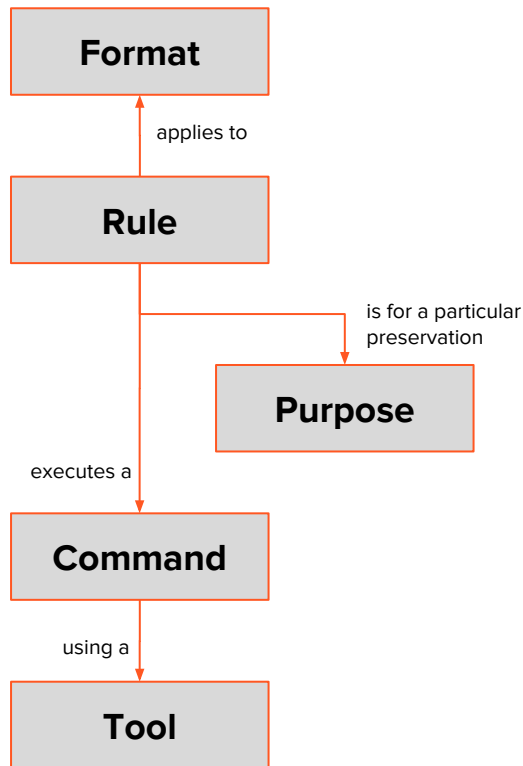
Formats:
- belong to Format Groups and can have format versions
- generally have an associated PRONOM ID
- have properties to indicate whether they are acceptable for preservation or access purposes

Rules:
- Define what command should be run against objects of a particular format for a particular preservation purpose

Preservation Purpose:
- Includes Identification, Extraction, Characterization, Normalization (for access or preservation), Transcription, Verification, Validation and Even Detail

Commands:
- Are scripts (can be unix, python etc.) that define variables (like output type, output location) and parameters to be used (e.g. for verbosity of output)
- Much of the critical detail of preservation tasks are found in the commands

Tools:
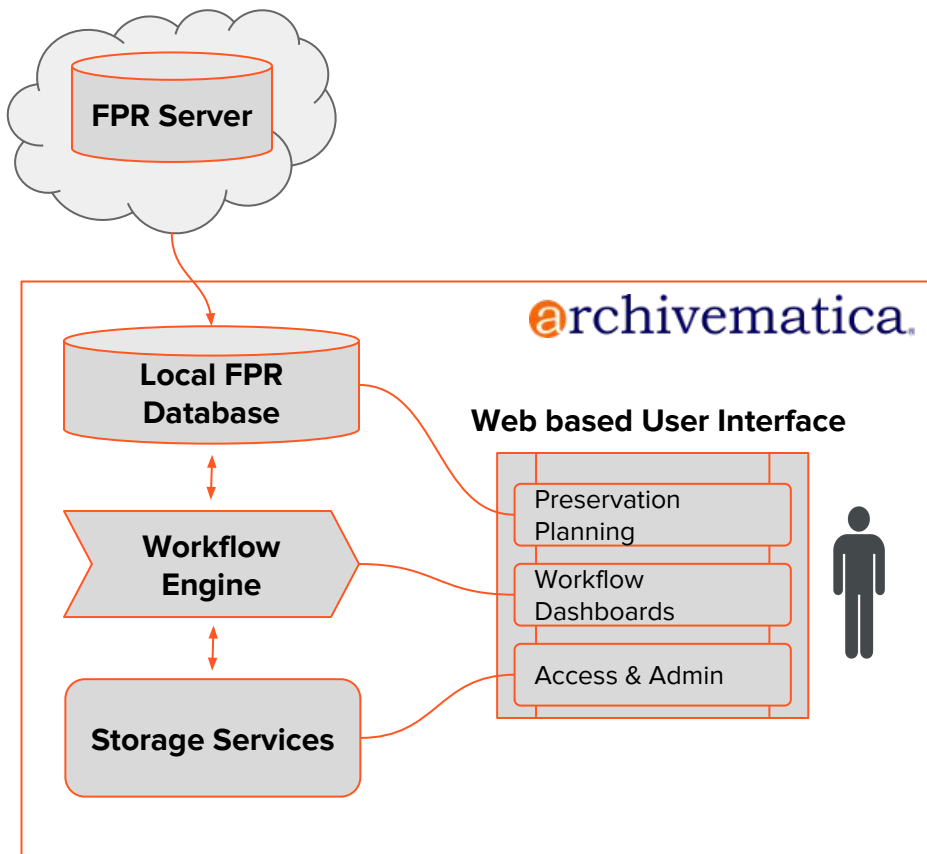- Refer to open source software programs that come embedded with Archivematica

➔ **Over 850 file formats defined with suggested assessment for preservation & access purposes**

➔ **Over 1,000 predefined rules provided**

➔ **39 predefined commands provided**

➔ **18 different tools available to be used**

How the FPR works today

FPR Server

Local FPR Database

archivematica

Web based User Interface

Preservation Planning

Workflow Dashboards

Access & Admin

Workflow Engine

Storage Services

Artefactual maintains the current knowledgebase of formats, rules & commands. This represents a huge body of knowledge based on both in-house analysis and collaboration with users.

When Archivematica is installed, the latest rules (and commands etc.) are downloaded to a local FPR database, so users can start to use them immediately.

The Preservation Planning user interface provides an easy way to manage all of the rules, commands etc. (with search, sort & filter capabilities).

The rules are executed by the workflow engine. Users can see the status of workflow and perform manual worklow steps using the workflow dashboards.

Activity 1: change the access normalization format for raster images from JPG to PNG

- Go to *Preservation Planning > Normalization > Commands*
- Find the command *Transcoding to jpg with convert*
- Select Replace

Description	Usage	Tool	Enabled	Actions
Copying file to access directory	Normalization	cp	True	View	Replace	Disable
Transcoding maildir to mbox	Normalization	Archivematica Script	True	View	Replace	Disable
Transcoding to generic png using convert	Normalization	convert	True	View	Replace	Disable
Transcoding to jpg thumbnail with convert	Normalization	convert	True	View	Replace	Disable
Transcoding to jpg with convert	Normalization	convert	True	View	Replace	Disable
Transcoding to mkv with ffmpeg	Normalization	ffmpeg	True	View	Replace	Disable
Transcoding to mp3 with ffmpeg	Normalization	ffmpeg	True	View	Replace	Disable
Transcoding to mp4 with ffmpeg	Normalization	ffmpeg	True	View	Replace	Disable
Transcoding to pdf with inkscape	Normalization	inkscape	True	View	Replace	Disable
Transcoding to pdf with ps2pdf	Normalization	ps2pdf	False	View	Replace	Enable

Showing 1 to 10 of 16 entries

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Activity 1: steps

1. Change *Description* to refer to a png rather than a jpg
2. Change *Command* to the following:c
    convert "%fileFullName%" -quality 60
    "%outputDirectory%%prefix%%fileName%%postfix%.png"
3. Change the output format to *Image (Raster): Portable Network Graphics: Generic PNG*
4. Change the output location to
    %outputDirectory%%prefix%%fileName%%postfix%.png
5. Click save

Activity 2: Remove preservation normalization rule for GIF

1. Go to *Preservation Planning > Formats*
2. Search for Graphics Interchange Format
3. Click *View*
4. Click *1989a*, then *Replace*
5. Check the *Preservation Format box*
6. Click the *Replace* button

Activity 2: Remove preservation normalization rule for GIF, con't

7. Go to *Preservation Planning > Normalization > Rules*
8. Search for *1989a*
9. In the *Preservation* row, click *Disable*
10. Click the *Disable FPR Rule*

Did your changes work?

- In the transfer tab, browse to *archivematica-sampledata* and start the *Images* transfer
- At *normalization, select* 'Normalize for preservation and access'
- Check the normalization report. Was the gif file recognized as a preservation format? Are your access copies png images?
  - If yes: huzzah!
  - If no, return to step 1….

If you're stuck…

At the *Approve normalization* step, select the pencil-and-paper icon to review the normalization report.

- For the image *799px-Euroleague-LE_Roma_vs_Toulouse_IC-27.bmp*, click on "Yes" under *Access normalization attempted*. How was the file normalized?
- For the image *WFPC01.GIF*, check the column *Already in preservation format*. Is GIF considered a preservation format?

Back on the dashboard, click on *(review)* next to *Approve normalization*. Drill down into the folders until you find the DIP.

- Click on a png file to review it. Does it look okay?