Compare

Description

Compare is a powerful tool based on ImageMagick and Ghostscript that will help you to spot differences between two files.

Features

- **Pixel Precision Analysis**:
  A detailed examination that identifies even the slightest differences between the two images.
- **Color Difference Highlighting:**
  Automatically highlights area discrepancies, making it easier to spot variations.
- **JSON or XML report:**
  Get a report, page per page, showing the difference between files
- **Compare file using different mode**
  - Similarity
  - Number of pixels
  - mean error per pixel
  - …
- **Multiple file format supported**
  - pdf
  - png
  - tiff
  - jpeg/jpg

Compatibility

Switch 2023 fall or higher.

Dependency

imageMagick: https://imagemagick.org/script/download.php
PitstopServer 2022 or higher (optional)

Flow element properties

- **Path to ImageMagick**
  If ImageMagick is defined as an environment variable (as it should be with a standard installation), you can use the "automatic" mode.
  If not, select the path to the ImageMagick executable.

- **Compare from**
  - File path
    Select the file path you want to compare your actual job file with.
  - Dataset
    Name of the opaque dataset you want to compare your actual job file with.

- **Compare method**
  - Structural similarity index
    Will return a percentage of similar pixels.
  - Structural dissimilarity index
    Will return a percentage of dissimilar pixels.
  - Number of different pixels
    Will return the number of dissimilar pixels.

- **Compare resolution**
  Select the resolution at which your files will be compared.
  Higher resolution will increase the calculation time.

- **Dataset name**
  Name of the opaque dataset where the graphic result file will be stored.

- **Dataset model**
  Model of dataset that will be used for the Log outgoing connection.

Example

Original	Compared file	Result

XML report

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<root>
    <job>Icon-template_200px.png</job>
    <comparedFile>Icon-template_200px modifed.png</comparedFile>
    <compareMethod>structural similarity index</compareMethod>
    <results>
        <result page="1">0.976507</result>
    </results>
</root>
```

JSON report

```json
{
    "job": "Icon-template_200px.png",
    "comparedFile": "Icon-template_200px modifed.png",
    "compareMethod": "structural similarity index",
    "results": {
        "result": [
            {
                "_": "0.976507",
                "$": {
                    "page": 1
                }
            }
        ]
    }
}
```