

SECTION 7. INFORMATION TECHNOLOGIES

7.1 Features of the pitstop module as a tool of information technologies

A more fundamental definition of information technology is that it is the application of technology to solve organizational problems on a large scale. Reviewing and refining printed publications prior to release will solve large and small quality problems in information technology. The software includes all data, programs and modules that allow you to operate and correct the publication in electronic form. Ultimately, the operating system or user editing tool will achieve an unconditional and error-free result.

The PitStop software tool or module is an essential tool for anyone working with PDF files in the print industry. This module is required at the stage of checking input files (preflighting) and has numerous interactive features, and also has such an option as Action Lists, which allows you to automatically make changes to several documents or orders at once.

The main program in PitStop Pro can be considered the Enfocus PDF Profile program, which allows up to 140 checks and 70 correction opportunities. PitStop allows you to build an Enfocus Certified PDF workflow based on task information (in XML format), running suggested checks, and monitoring their progress. The PDF Profile tool is embedded in the processed file, each preflight check has its place and order in it, and a comparison of the old and changed versions can also be created.

Characteristic PitStop Pro:

- Editing PDF files.
- Global changes in multiple or large PDF files.
- Setting up automatic changes throughout the document.
- Insert covers, page renumbering, color conversion.
- Prepress check of documents (fonts, colors, objects).
- Support for standards such as PDF/X format, Ghent PDF Workgroup specifications, user profiles.

- Generation of preflight reports containing a list of all issues.
- Error navigation followed by automatic correction.
- Display information about the authors and types of changes made to the document.

PitStop Pro allows the prepress worker to edit and modify fonts, perform color management, adjust image resolution and manage other attributes of the input file, the PitStop module allows you to check almost all properties of PDF documents and thus guarantees a quality printout. Part of an automated PDF workflow when used with other Enfocus products [307-309]. Text editing, for example, can occur on lines or paragraphs, copying and pasting objects, transferring between pages and documents in general is allowed.

If the PDF contains an RGB image, it may produce unexpected results after the PDF is processed. Images may be of poor quality, the final printed color may not be correct, and there may even be color shift. Colors may change and images may be displayed in poor quality. To prevent this, check PDF files for RGB images that should be converted to CMYK. To convert images from RGB to CMYK using the Show PitStop Inspector panel, certain settings have been made in Fig. 1, after which the CMYK colors of fig. 2.

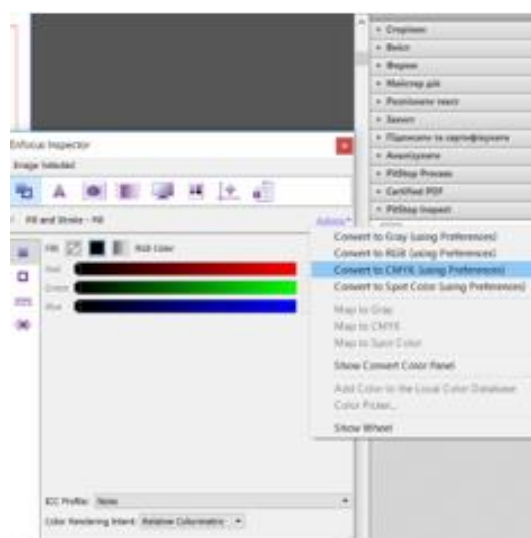


Figure. 1. Image setting in RGB

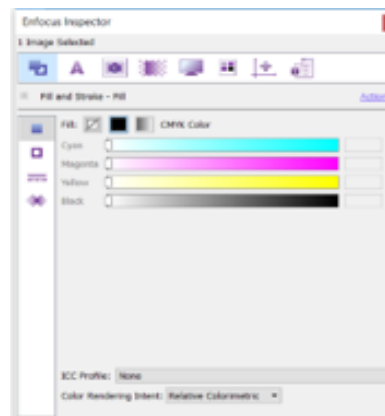


Figure. 2. Picture in CMYK

If the color is set incorrectly, you can change the color of images and the fill or stroke of graphic objects, as well as the color of path lines. You can also define a different color model for them. To do this, use the Enfocus Pitstop Inspector panel.

By activating the runners, the color of the selected image in fig. 3 and fig. 4.

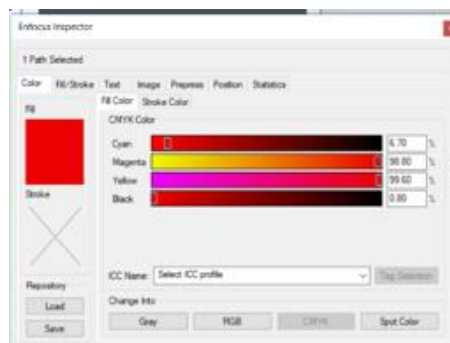


Figure. 3. Image before editing

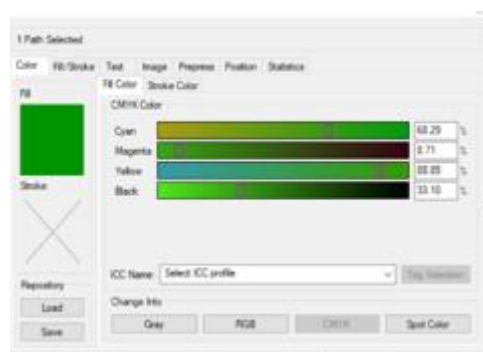


Figure. 4. Image after editing

Enfocus PitStop Profesional allows you to edit individual text rulers. This is especially useful for minor corrections in the form of correcting spelling errors.

By selecting the desired text using certain tools in Fig. 5.

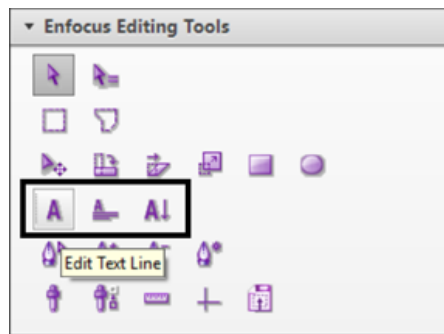


Figure. 5. Text editing tools

Certain corrections are made (replacing the font in Fig. 6, changing the color of the font in Fig. 7. and editing the color in Fig. 8.).

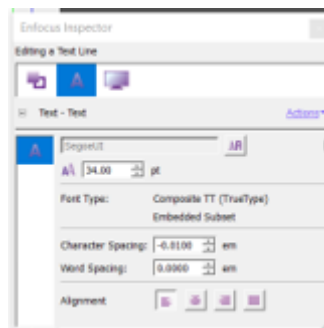


Figure. 6. Text change

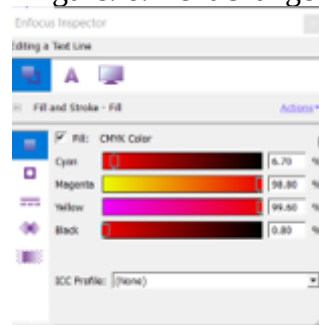


Figure. 7. Changing the font color

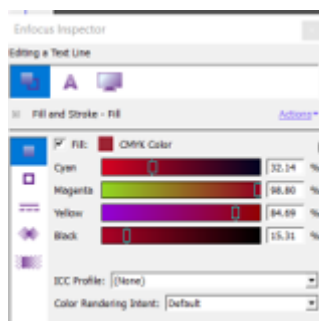


Figure. 8. Edited color

The PitStop module makes it easy to resize PDF files. This can be done in one of two ways: manually or automatically.

Manual method (inspector).

If you need to edit a specific document or page, follow these steps: Go to the **Position** icon and select **Edit Page Boxes**. Next, you need to select the page block that you want to change, and in the **Size W** and **H** fields fill in the new desired value (Fig. 9).

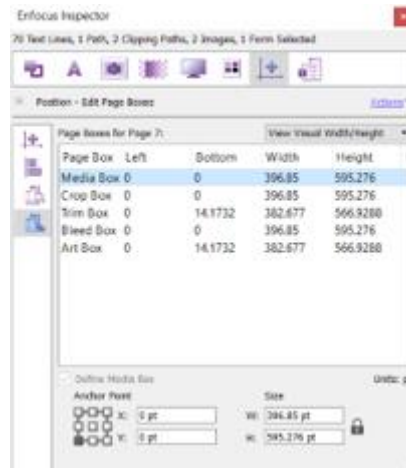


Figure. 9. Change the page size

In this way, you can determine all the fields that need to be changed. Also, the **Anchor Point** selector allows you to select a reference point for calculations.

If you want to apply the specified page boxes to all pages, this can easily be done by clicking **Actions** in the inspector panel and selecting **Apply these Page Boxes to All Pages** Fig.10.

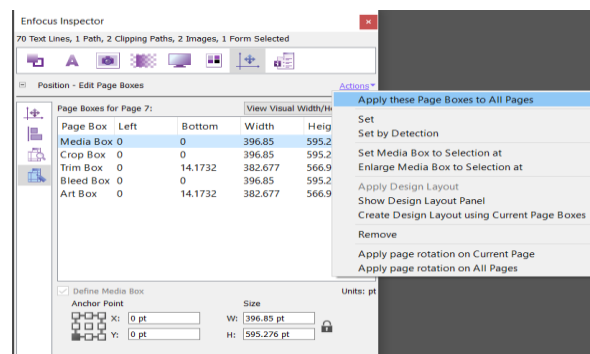


Figure. 10. Changes to all pages

Automation batch method. If you need to fix many documents in one click, follow these steps to create a list of actions that can be run in PitStop Pro or fully automated using Enfocus PitStop Server.

Open the **Action List** panel by going to the PitStop Pro menu in Acrobat > Action

Lists and click New. In the search field at the top left, enter a field to filter all actions associated with the field, and select the necessary actions. After that, we add them to the list of actions in Fig. 11.

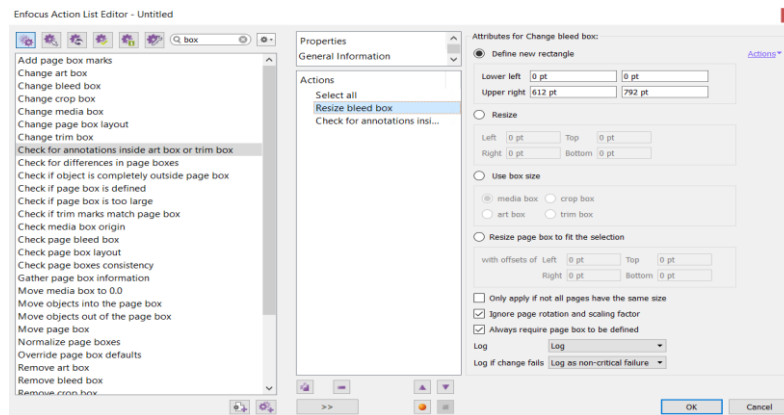


Figure.11. Setting up the action list

Starting with PitStop Pro 12, the Image – Curve Editing tab has appeared in the Enfocus Inspector window, which is very convenient when working with images.

The Curves tool is one of the most powerful and flexible methods for color grading and image adjustment. With Curves, you can measure any shade of brightness from 0 to 255 and add additional breakpoints to make better corrections, or refine input and output breakpoint values. Curves can be created by adding points and dragging them to the desired location, or by entering values in the boxes below the curve.

The image curve editing mode allows you to work with the entire image or part of it, it all depends on the desired color correction. Highlights, midtones, or shadows can be adjusted. The change in the balance of the curve can be influenced by changing the shape of the curve, this is shown in Fig. 12., fig. 13., fig. 14., fig. 15. and fig. sixteen.

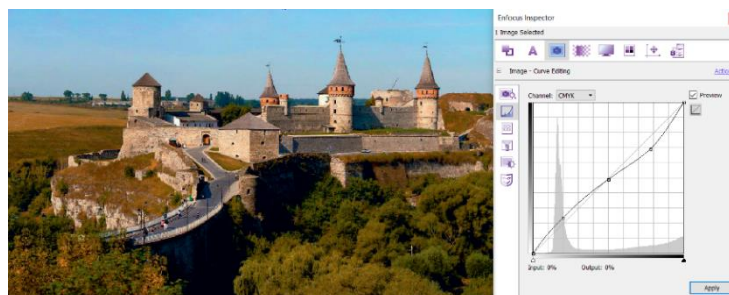


Figure. 12. Curve setting CMYK



Figure. 13. Curve setting Cyan



Figure. 14. Curve setting Magenta



Figure. 15. Curve setting Yellow



Figure. 16. Curve setting Black

The features of the PitStop module, namely the editing of font characteristics and colors, are analyzed. Using the PitStop module, you can easily resize PDF files, two options are described. An example of adjusting the tone of images and their color correction is presented.