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ITPS - Image to PDF Conversion Shell Tool

(Executable for Win32 and UNIX Systems)

User's Manual

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Introduction

The Image to PDF Conversion Shell Tool is a command line tool to convert image documents to PDF documents. Options like page dimensions, resolution of the image or size of the border can be adjusted. Also the PDF attributes such as Title can be set.

Installation

The retail version of the Image to PDF Conversion Shell Tool comes as a ZIP or TAR archive containing various files including runtime binary executable code, documentation and license terms. Extract the files to a directory on your harddisk. For further operating system specific information see the readme.txt file in the installation kit.

Usage

The Image to PDF Converter Shell Tool is based on parameters. The syntax is as following:

img2pdf [options] image1 [image2] [image3] [..] output.pdf

Parameteres

By providing no parameters, the usage of img2pdf is displayed:
```
img2pdf
img2pdf: Version 2.36, May  6 2004
Usage:  img2pdf [-j] [-w width] [-h height] image1.bmp image2.tif image3.gif
... output.pdf
  -j                 use JPEG compression
  -c                 use CCITT Group 4 compression
  -r                 use standard image format
  -w page width      set absolute size for page
  -h page height
  -a                 set page area automatically to image size plus border
  -d dpi             scale image to specified DPIs
  -f                 enlarge or reduce large images to fit page (default)
  -t                 true size (inverts -f option)
  -z                 center image on page
  -b border          set border size (default 10)
  -o owner-password
  -u user-password
  -p permissions
  -i attr=value      set document attribute (e.g. Title)
  -@control.txt
```

Compression Types Parameters

The Image to PDF Conversion Shell Tool supports three compression types: JPEG, CCITT and Flate. Only one of these can be applied at a time.

JPEG compression

```
Option –j
```

This option uses JPEG Compression. JPEG is a lossy compression algorithm. This option can only be used for color images.

CCITT Group 4 compression

```
Option –c
```

CCITT Group 4 Fax Compression is for 1bit images only.

Flate compression

```
Option –r
```

Flate compression uses the Z-Lib that is also used in the ZIP compression.

Layout Parameters

Set page dimensions

```
Option –w PageWidth
Option –h PageHeight
```

Set the absolute size of the page dimensions in points. Default is A4 (595 x 842 points).

Set page area automatically to image size plus border

```
Option –a
```

This options calculates the page dimensions automatically. When this option is applied, the values for the options –h and –w are ignored.

Scale image to specified DPIs

```
Option -d dpi
```

This option sets the DPI (dots per inch) value of the image. A high DPI value generates a smaller, but sharper image.

Enlarge or reduce large images to fit page (default)

```
Option -f
```

The fit mode scales the image to fit the page. Which means the DPI value is changed, so that the image fits the page in either width or height. This option stands in conflict with the option –d. If –d is set, -f is ignored.

True size

```
Option –t
```

Places the image in true size. This option inverts the option –f.

Center image on page

```
Option -c
```

Center the image horizontally and vertically.

Set border size

```
Option -b border
```

This option can be used to set a white border, the default value is 10 points.

Security Parameters

Set an owner password

```
Option -o owner-password
```

This option sets an owner password. The owner password is required to change the scurity flags.

Set a user password

```
Option -u user-password
```

This option sets the user password. The user password is required to open the PDF document.

Set the security flags

```
Option -p permissions
```

The security flags determine what operation are allowed with the PDF. Here is a list of the security flags:

p   do not print the document from Acrobat

c   changing the document is denied in Acrobat

s   selection and copying of text and graphics is denied

a   adding or changing annotations or form fields is denied

The following flags are defined for 128 bit encryption (PDF 1.4, Acrobat 5.0):

I   disable editing of form fields

e   disable extraction of text and graphics

d   disable document assembly

q   disable high quality printing

The flag "5" can be used in combination with one of the "old" flags to force 128 bit encryption without setting any of the i, e, d, or q flags. Note that using any of these Acrobat 5 related flags will produce a file that cannot be opened with older versions of Acrobat.

Other Parameters

Set document attribute

```
Option -i attr=value
```

This option can be used to set the document attributes, such as title or producer.

Use a control file

```
Option -@control.txt
```

A control file can be used to provide a list of input files and/or parameters. Every parameter in the control file stands on a new line.

Examples

How to use CCITT compression

```
img2pdf -c image.tiff output.pdf
```

How to set the page dimensions to Letter size (8.5 x 11 inch)

```
img2pdf –w 612 –h 792 image.jpg output.pdf
```

How to create an encrypted PDF file

```
img2pdf –owner mypwd –p psca5 image.jpg output.pdf
```

How to use a control file

A control file could contain options like these:
```
-i Title=This is my title
-i Author=William Shakespear
```

The corresponding command could look like this:
```
img2pdf -@control.txt image.jpg output.pdf
```

How to use wildcards

img2pdf itself does not support wildcards. To use wildcards, there are two work-arounds:

1. Use a shell that supports wildcards.

2. Use a control file. To add all JPEG images in a folder to a PDF using for example the cmd shell from Windows, do the following two steps:
```
dir *.jpg /B > control.txt
img2pdf -@control.txt output.pdf
```