PiCs2PDF

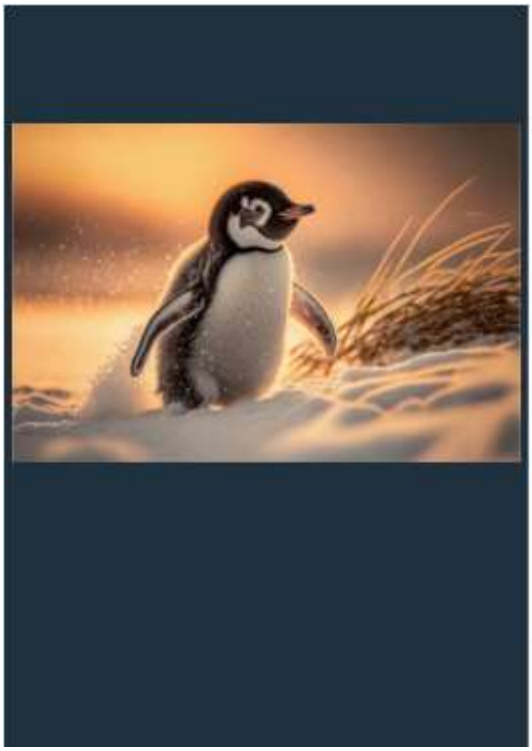
Windows multiple image to PDF conversion
(work in progress)

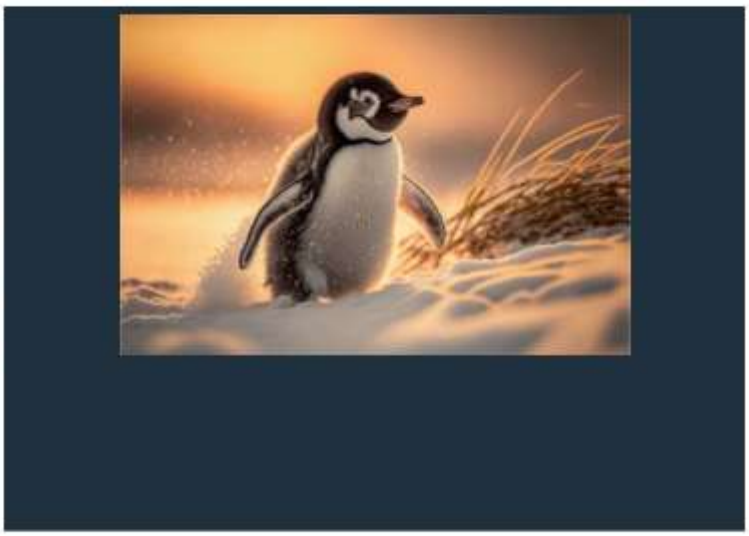
1. Introduction

This utility converts compatible image files into PDF documents using only native Windows code. It requires no external libraries and produces efficiently compressed PDFs.

Key Features:

- Supports normal BMP, GIF, JPG, PNG, TIFF single or first page of such formats.
- Pure plain text C# 5, compiled with Win10/11 4.net onboard csc.exe.
- PDF image compression via import DCT or convert to efficient Deflate with checksums.
- Options for page size, margins and background colour.
- Optional auto-orientation for landscape images.
- Auto centering in the image zone.
- Marginal offsets control the Image zone (which may not be as expected in some other apps). Here the lower margin is set to 70 mm minimum, all others are 4 mm minimum.



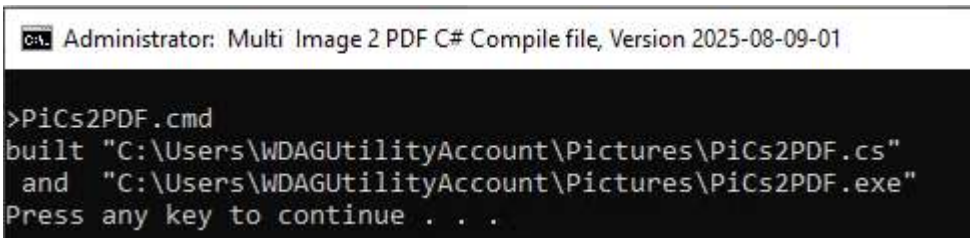


2. Installation

Save the source file (**PiCs2PDF.Cmd**).

Run the cmd file and it will convert the text to C# file **PiCs2PDF.cs** then it should compile that using the built-in Windows.net cs compiler:

C:\Windows\Microsoft.NET\Framework\v4.0.30319\csc.exe **PiCs2PDF.cs**



Run the resulting **PiCs2PDF.exe** from the command line.

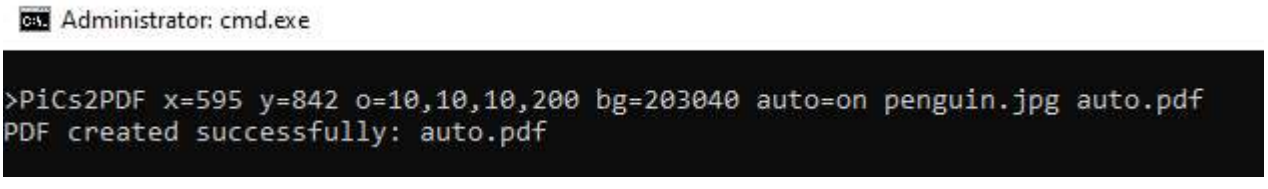
3. Usage

Usage syntax:

PiCs2PDF x=mm **y=**mm **p=**NN **o=**L,T,R,B **bg=**RRGGBB **auto=**on|mm <**file|folder**> [**output.pdf**]

Parameters:

x=WIDTH	(or w=)	Page millimetres (**Default: 210**) if = 0 the other is the one dimension
y=HEIGHT	(or h=)	Page millimetres (**Default: 297**) if = 0 the other is the one dimension
p=NNN		This is an alternative to x,y scaling to use one fixed PPI value
o=L,T,R,B		Minimal Margins, in millimeters (left, top, right, bottom). **Default: 0**
bg=RRGGBB		Optional background colour (hex e.g. White=ffffff) **Default: none**
auto=on | mm		Auto rotate Media page for wider images. **Default: off**
[file | folder]		Input image or folder. **Needs at least one**
[output.pdf]		Output file name (**default: output.pdf**).

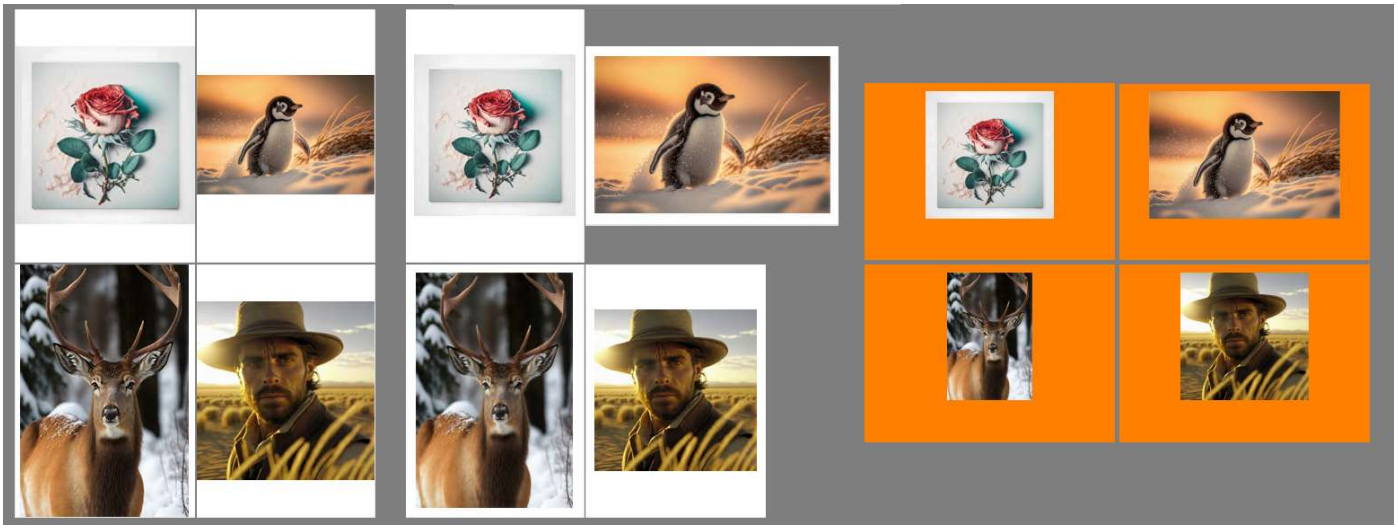


4. Examples

Basic conversion: showing some different settings

For custom page size (e.g. USA Letter) use: PiCs2PDF x=215.9 y=279.4

PiCs2PDF.exe images album.pdf
PiCs2PDF o=10,10,10,10 images out.pdf
PiCs2PDF x=297 y=210 o=10,10,10,50 bg=ff7f00 images



5. Advanced Notes

Supported formats: JPG (import), BMP, GIF, PNG, TIFF (single page or first image).

Unsupported formats (HEIC, WebP) are skipped. You can loose the text with **>nul** for silent use.

Compression: Flate (Deflate + Adler32).

Auto-centering and minimum margins; seperate margins allow for custom voids (whitespace).

6. Troubleshooting

File not found	Check spelling and naming of paths.
Unsupported file skipped	Check extensions.You can remove the warning line for silent use.

Skipped unsupported format: images\PiCs2PDF.exe
Failed to load image: images\wild-deer.jpg (Parameter is not valid.)

PDF created successfully: 96.pdf

Large PDFs	Reduce image pixel size before conversion (PDFs do NOT use DPI).

“don’t use image filenames for output PDFs”)?

7. Appendix

Notes on PDF internal objects:

/MediaBox	Defines page size.in points converted from mm
/XObject	Embedded image streams.
/Filter /FlateDecode	Optimally compressed image data.