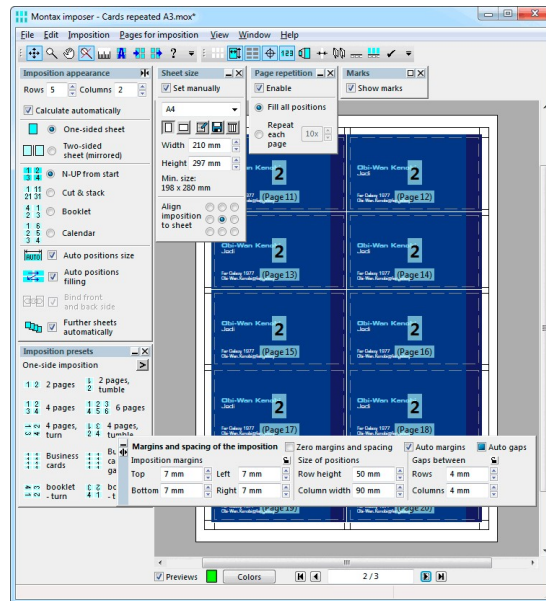


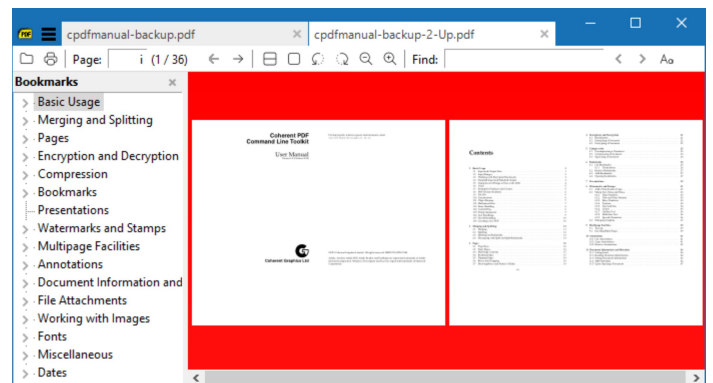
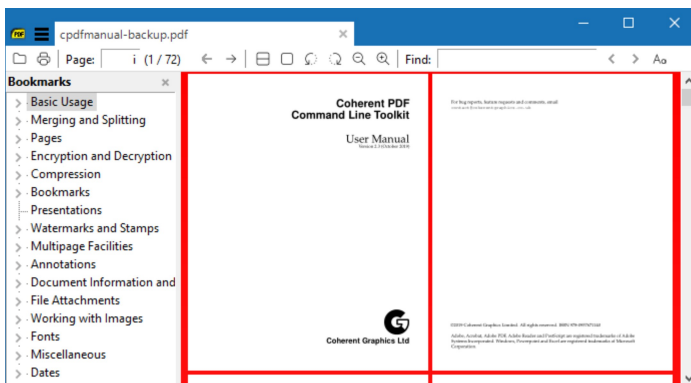
## SumatraPDF and N-Up

N-Up is one type of "imposition" which is the art of laying out multiple print pages onto a printed sheet.

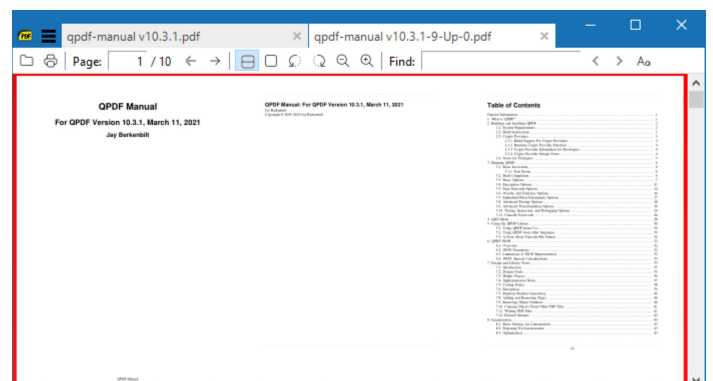
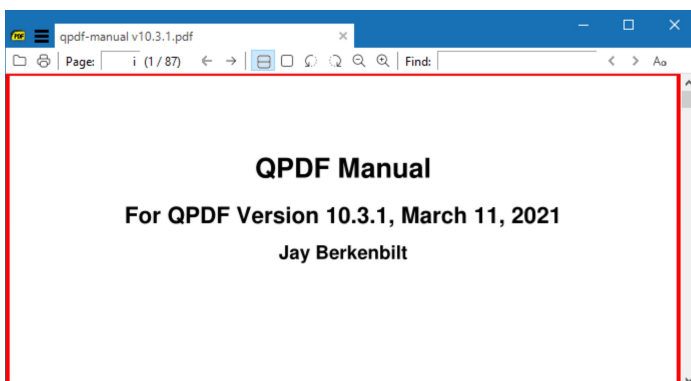
Normally used by printers or booklet designers to ensure back to back printing is suitable for slitting and folding into batches, or setting out greeting/business cards and labels.



SumatraPDF users may also find this useful, for viewing more PDF pages on a screen at a time. Thus using 2-Up layout we can view PDF double page spreads as if they are 4 pages wide. The method used here nicely retains the Bookmarks. (Note the cpdf license does NOT allow for unpaid commercial use)



One alternative to view 3-Up pages wide is to use single pages in a 9-Up (3x3) layout however although this method using qpdf allows for free commercial use it currently removes any bookmarks.



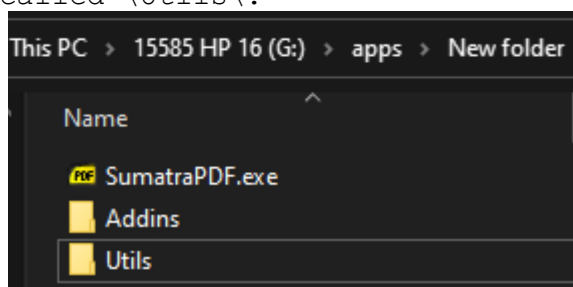
Either method could be adapted using your choice of other tools

How to addin these features ?

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**This file as a PDF** can be downloaded from <https://github.com/GitHubRulesOK/MyNotes/blob/master/AppNotes/SumatraPDF/Addins/N-Up-PDF/N-Up-PDF.pdf>

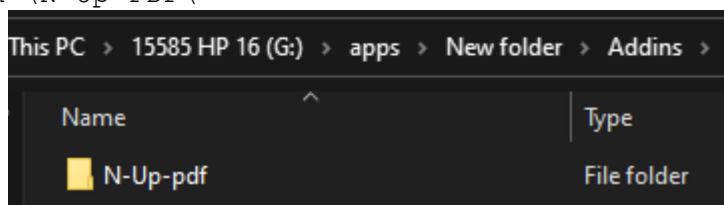
The addins were written to be used with a portable copy of SumatraPDF (but will also work with an installed copy). Some will eventually depend on features only available in a pre-release version so I recommend 64 bit users download the zip from <https://www.sumatrapdfreader.org/dailybuilds.html> whereas 32 bit users will need the 32bit portable version: SumatraPDF-prere1-####.exe from <https://www.sumatrapdfreader.org/prerelease.html>

In either case place in a folder name of your own choice on any drive (avoid cloud drives) HOWEVER rename the binary file to SumatraPDF.exe (or else you would need to edit all the scripts). Addins expect to be placed in subfolders below that location, so make a subfolder called \Addins\ and the Utils are expected to be in a separate folder called \Utils\.

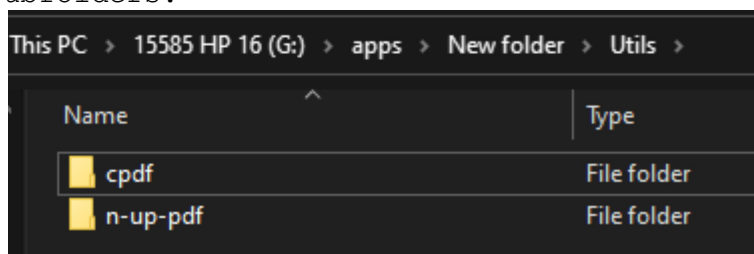


The necessary scripts 2-Up-PDF.cmd and N-Up-PDF.cmd are located at <https://github.com/GitHubRulesOK/MyNotes/tree/master/AppNotes/SumatraPDF/Addins/N-Up-PDF>

Click on one or each .cmd file in turn to read them and if happy to download then Right Click the Raw button on that page(Raw). Save the .cmd files in a folder below Addins\ called \N-Up-PDF\

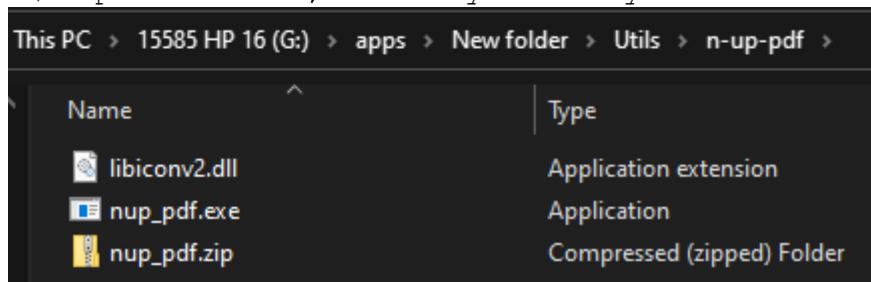


Depending on your intended usage, you will also need their working binary files in relevant Utils subfolders.

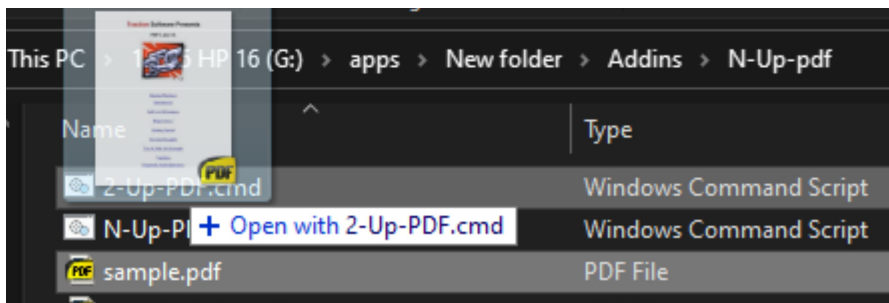


For 2-Up-PDF you will need **cpdf.exe** (community free ware) from <https://community.coherentpdf.com/> where you can click on [Download pre-built cpdf tool](#) the zip file, once unpacked, includes the PDF manual and two windows folders. You only need to extract the more universal cpdf.exe from the Windows32bit folder, but if using 64bit windows may prefer to use the 64bit version from the "windows" sub folder. Place your choice of cpdf.exe (and any other files like the manual) in the subfolder named **Utils\cpdf\**

For N-Up-PDF you will need **nup\_pdf.zip** (free ware) from <https://soft.rubypdf.com/software/pdf-n-up-maker> that contains two files so copy them to the Utils\N-Up-PDF folder, and If you wish you can delete the zip.



At this stage you should have almost all you need to start testing (and should in fact be able to drop a PDF on either of the Addins scripts to test Stand-Alone functioning),



**There is just one thing missing for running from inside SumatraPDF** and that is how do all the addins know where they are?

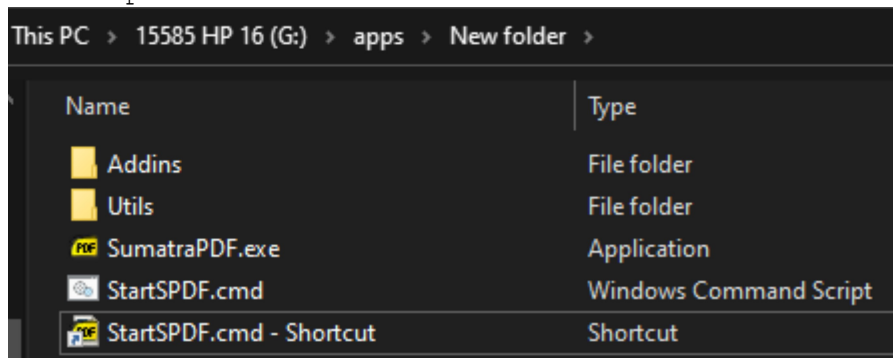
The simplest way is to set the location in the PC start up sequence, and for **always installed** users that's easily done using SETX addins G:\apps\New folder \Addins or whatever your folder is (you will need to restart OR log off and on, for a SETX to be saved), however, for portable use we just need a variable that in this point in time is G:\apps\New folder\Addins but may be different tomorrow.

If your portable start up sequence is relative to the drive, so for example you have a start.bat in G:\, you can add into that a line such as SET Addins=%~d0 \apps\New folder\Addins and if the USB is next time seen as F: it will be corrected.

Otherwise you need to manually include a similar command before starting SumatraPDF.exe, and the easiest way would be to place a start-up script in the SumatraPDF folder. It needs be just as simple as saving the following: -

```
@Set addins=%~dp0Addins & SumatraPDF.exe %*
```

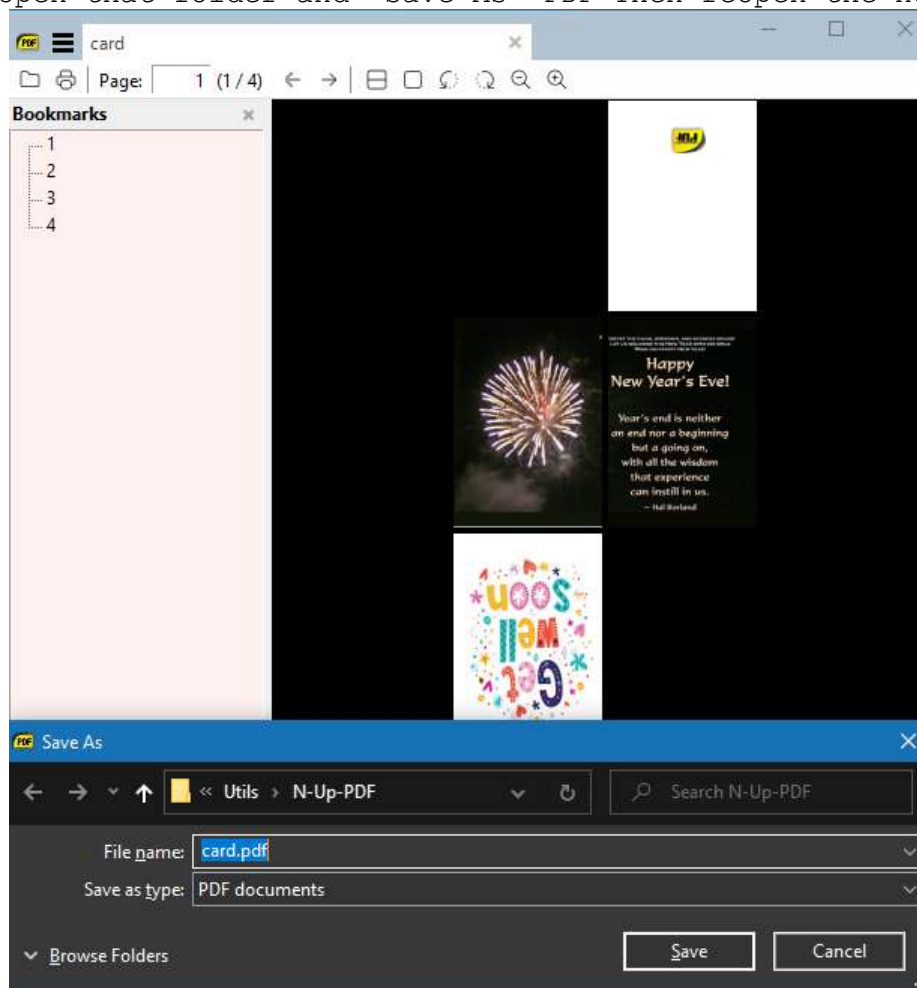
For example save that as StartSPDF.cmd and Right Click create shortcut, you can use SumatraPDF.exe to provide the icon



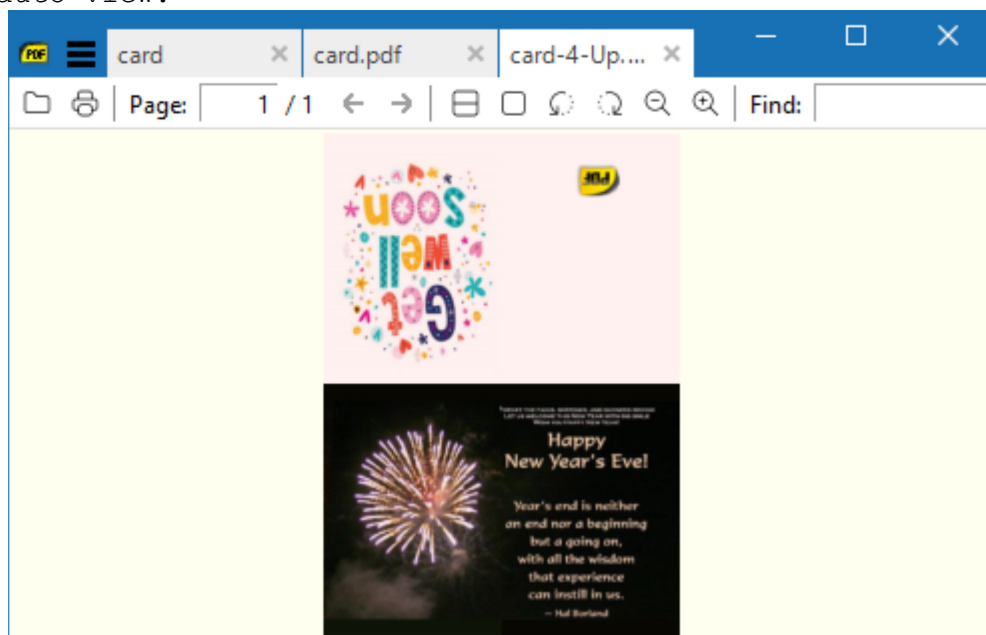
You can right click, send to, desktop (create shortcut), then you can drop files on the desktop shortcut and they should know where both SumatraPDF and its Addins are to be found.

Tip 1 = You want to print a Greetings Card from 3 / 4 page PDF or 3 / 4 images

There are several ways to do this such as use the N-UP addin Ratio = B & 2 to pair page 1 and 4 and pair page 2 with 3 then print them back to back, that is no different to a simple one sheet A5 Booklet. Here is another suggestion, using images as source, first place them numbered 1-4 in a folder, Note it is best to store the back page as page 1 and cover as 4 both rotated by 180 degrees. Use SumatraPDF to open that folder and "Save As" PDF Then reopen the new PDF.



We are now aiming for 4-Up PDF pages on one sheet to print and fold as A6 or if printed to A3 then fold to A5. So use N-Up Addin with Ratio = B and 4-Up to convert and auto-view.



Now you can print and fold as many copies as you need.

Tip 2 = With 12 x single A4 pages, you want an A5 Booklet on 3 stapled sheets

So we need to first N-Up in booklet mode

Run N-Up-PDF with Ratios B & 2 (will call nup\_pdf with 2 -k 1)

Now pages will be re ordered and merged 2 per rotated page

new 1st : 2nd

12 & 1 , 2 & 11

10 & 3 , 4 & 9

8 & 5 , 6 & 7

First print ONLY the new ODD pages 1,3,5

Flip the paper over and re-use in printer as EVEN 2,4,6

You should now have 3 sheets that can be stapled in the middle as a booklet.

Other Notes

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For more complex layouts you could use scripted PDF imposition tools such as those from

Commercial (there are many)

Traction Software (PDFnUP v1.15) has trial limitations

Freeware

PoDoFo (podofoimpose) this can produce very detailed imposition layouts by mixing rotations within easy to script plate sets. However they are expected to be used with well scaled source files (usually cropped so as to then add variable margins) so are not well suited to a viewer.