

# Neevia PDF*compress*

user's manual  
version 4.0

<http://neeviaPDF.com/PDFcompress>

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## Introduction

Neevia PDFcompress is a software product that can be used to reduce the actual size of PDF files by compressing text and graphics. It comes as a command line tool, a graphic interface application and COM object.

Supported platforms are: Windows XP, 2003, Vista, 7, 2008, 2012, 8, 10 - 32 and 64 bit.

## Installing and Uninstalling Neevia PDFcompress

Before installing and/or using this product, please make sure you have carefully read the copyright notice and agreed to all of its terms. If you have any questions about the licensing agreement, feel free to call (954) 981.9252 or send an email to [sales@neeviaPDF.com](mailto:sales@neeviaPDF.com).

### To install Neevia PDFcompress:

download and save the [http://neeviapdf.com/prods/PDFcompress\\_setup.exe](http://neeviapdf.com/prods/PDFcompress_setup.exe) file onto your hard drive. After downloading the file, double-click on it and follow the instructions. The installation procedure automatically detects your operating system, copies the needed files into your system directory and installs Neevia PDFcompress.

### Unattended installation:

To perform an unattended (silent) installation launch the PDFcompress installer with **/sp** **/very silent** **/norestart** command line switches. Here is the full list of supported switches:

#### **/SP**

Disables the "This will install... Do you wish to continue?" prompt at the beginning of Setup.

#### **/SILENT, /VERYSILENT**

Instructs Setup to be silent or very silent. When Setup is silent the wizard and the background window are not displayed but the installation progress window is. When Setup is very silent the installation progress window is not displayed. Everything else is normal so for example error messages during installation are displayed and the startup prompt is (if you haven't disabled it with '/SP' command line option explained above). If a restart is necessary and the '**/NORESTART**' command is not used (see below) and Setup is silent, it will display a "Reboot now?" dialog. If it's very silent it will reboot without asking.

#### **/NOCANCEL**

Prevents the user from canceling during the installation process, by disabling the Cancel button and ignoring clicks on the close button.  
Useful along with /SILENT.

#### **/NORESTART**

Instructs Setup not to reboot even if it's necessary.

#### **/DIR="x:\dirname"**

Overrides the default directory name displayed on the Select Destination Directory wizard page. A fully qualified pathname must be specified.

**/GROUP="folder name"**

Overrides the default folder name displayed on the Select Start Menu Folder wizard page.

**/user="username", /company="company name", /serial="serial number"**

Use these switches to pass the registration info (username, company name and serial number) to the installer.

**To remove Neevia PDFcompress from your computer:**

1. Select **Settings** -> **Control Panel** from the Start menu.
2. In the Control Panel click **Add/Remove programs** and select **Neevia PDFcompress** from the applications list.
3. Click the **Add/Remove** button to remove the program. A confirmation prompt is displayed.

**Unattended uninstall:**

To perform an unattended (silent) uninstall, launch **unins000.exe** from the folder where the application has been installed with **/verysilent /norestart** command line switches. Here is the full list of supported switches:

**/SILENT, /VERYSILENT**

When specified, the uninstaller will not ask the user for startup confirmation or a message stating that uninstall is complete. Shared files that are no longer in use are deleted automatically without prompting. Any critical error messages will still be shown on the screen. When **'/VERYSILENT'** is specified, the uninstall progress window is not displayed. If a restart is necessary and the **'/NORESTART'** command isn't used (see below) and **'/VERYSILENT'** is specified, the uninstaller will reboot without asking.

**/NORESTART**

Instructs the uninstaller not to reboot even if it's necessary.

**How to register Neevia PDFcompress**

After you downloaded the product run the installer and at the end of the process enter your registration info. If you do not have a serial number and simply want to test the product select Evaluate Product then click Finish. To register via the graphic interface right click on PDFcompress.exe select *Run as administrator* then click About -> Register -> copy and paste your licensing info.



## Using the Command Line Interface to compress PDF files

By default, the PDFcompress command line application is located in the c:\program files\neeviaPDF.com\PDFcompress\cmdLine folder.

**Usage:** CLcompr.exe <inputfile> [outputfile] [options]

<inputfile> PDF file to compress.

[outputfile] Output PDF file. If left blank it will be the same as the input file

### Supported Options

**-u** <password> user password to input PDF file

**-lin** linearizes output PDF file

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -u password -lin
```

**-cos** creates object streams (slower compression but smaller output)

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -cos
```

**-ci** <value> color image compression

possible values:

jpx - JPEG2000 compression (default)

jpg - JPEG compression

zip - Deflate (ZIP) compression

none - Image will be left uncompressed

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -ci jpx
```

**-cq** <value> color image compression quality

possible values: 0 .. 100 (default is 75)

this parameter applies only to jpx and jpg compressions

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -ci jpx -cq 80
```

**-gi** <value> grayscale image compression

possible values:

jpx - JPEG2000 compression (default)

jpg - JPEG compression

zip - Deflate (ZIP) compression

none - Image will be left uncompressed

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -gi jpx
```

**-gq** <value> grayscale image compression quality

possible values: 0 .. 100 (default is 75)

this parameter applies only to jpx & jpg compressions

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -gi jpx -gq 80
```

**-mi** <value>      monochrome image compression  
possible values:  
jbig2 - JBIG2 lossy compression (default)  
jbig2l - JBIG2 lossless compression  
fax - Group 4 CCITT facsimile (fax) compression  
zip - Deflate (ZIP) compression  
none - Image will be left uncompressed

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -mi jbig2l
```

**-mq** <value>      monochrome image compression quality  
possible values: 0 .. 10 (default is 5)  
this parameter applies only to jbig2 and jbig2l compressions

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -mi jbig2l -mq 8
```

**-crt** <value>      threshold in DPI to activate color images resampling  
(default: 0 - no resampling)

**-crr** <value>      color images resolution in DPI after resampling  
(default: 150)

**-grt** <value>      threshold in DPI to activate grayscale images resampling  
(default: 0 - no resampling)

**-grr** <value>      grayscale images resolution in DPI after resampling  
(default: 150)

**-mrt** <value>      threshold in DPI to activate monochrome images resampling  
(default: 0 - no resampling)

**-mrr** <value>      monochrome images resolution in DPI after resampling  
(default: 150)

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -crt 225 -crr 150 -grt 225 -grr 150 -mrt 225 -mrr 150
```

Encryption settings:

**-owner** <value>    owner password to use for encrypting output PDF file

**-user** <value>     user password to use for encrypting output PDF file

**-rc4**              uses 128 bits RC4 encryption for encrypting output file

**-aes**              uses 128 bits AES encryption for encrypting output file

**-aes256**          uses 256 bits AES encryption for encrypting output file

**-aes256v2**        uses 256 bits AES R6 encryption for encrypting output file

**-nometa**          does not encrypt PDF Metadata

- onlyattach**        encrypts only attachments
- perms <value>**    PDF security permissions to use for encrypting output file flags:
- p - document printing is denied
  - c - changing the document is denied
  - 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 bits encryption:
- i - disable editing of form fields
  - e - disable extraction of text and graphics
  - d - disable document assembly
  - q - disable high quality printing

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -owner test -aes -perms pcs
```

- ver <value>**        2,...,7. Output PDF file version
- duplicates**        removes duplicate fonts and color profiles
- optimize**         optimizes page content streams
- lzw2flate**         in streams that use LZW encoding, use Flate instead
- unembedfonts**    unembeds the base 14 fonts
- forms**             removes forms from output PDF
- bookmarks**        removes bookmarks from output PDF
- annotations**     removes annotations from output PDF
- labels**            removes page labels from output PDF
- articlethreads**   removes article threads from output PDF
- layers**            removes hidden layers and flatten visible ones
- taggedinfo**        removes tagged info from output PDF
- thumbnails**      removes page thumbnails
- altimages**        removes alternate images and leave only the one for on-screen viewing
- dests**             removes named destinations from output PDF
- embeddedfiles**    removes embedded files (attachments) from output PDF

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -forms -bookmarks -taggedinfo
```

- title** <value> sets output PDF file title to <value>
- author** <value> sets output PDF file author to <value>
- creator** <value> sets output PDF file creator to <value>
- subject** <value> sets output PDF file subject to <value>
- keywords** <value> sets output PDF file keywords to <value>

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -title "Daily Report"
```

- openmagn** <value> sets open magnification (in %) for output PDF file

- openpage** <value> sets open page for output PDF file

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -openmagn 50 -openpage 1
```

- pm** <value> specifies how output file should be displayed when opened in PDF viewer.

Possible values:

- 0 - Default view
- 1 - Page only
- 2 - Outlines (bookmarks) visible
- 3 - Thumbnail images visible
- 4 - Optional content group panel visible
- 5 - Attachments panel visible
- 6 - Full screen mode

- pl** <value> specifies page layout to use when output file is opened in PDF viewer.

Possible values:

- 1 - Displays one page at a time (default)
- 2 - Displays the pages in one column
- 3 - Displays the pages in two columns, with odd numbered pages on the left
- 4 - Displays the pages in two columns, with odd numbered pages on the right
- 5 - Displays the pages two at a time, with odd numbered pages on the left
- 6 - Displays the pages two at a time, with odd numbered pages on the right

Example:

```
CLcompr.exe c:\input.pdf c:\output.pdf -pm 2 -pl 1
```

- hidemenubar** specifies if PDF viewer should hide menu bar when output file is displayed

- hidetoolbar** specifies if PDF viewer should hide toolbar when output file is displayed

- hidewindowui** specifies if PDF viewer should hide user interface elements when output file is displayed

- fitwindow** specifies if PDF viewer should resize the document's window to fit the size of the first displayed page

- centerwindow** specifies if PDF viewer should position the document's window in the center of the screen

Example: CLcompr.exe c:\input.pdf c:\output.pdf -hidetoolbar -hidemenubar

## Using the COM Interface to compress PDF files

### Class ID

**PDFcompress.Neevia**

### Example:

**Visual Basic:** `Set NVcomp = CreateObject("PDFcompress.Neevia")`

**Delphi:** `NVcomps := CreateOLEObject("PDFcompress.Neevia")`

## Using the .NET assembly to compress PDF files

To use the PDFcompress.NET interface for compressing PDF files, in Visual Studio go Project -> Add Reference ->.NET and select **PDFcompressNET** from the list. After this:

**Visual Basic:** `Dim NVcomp As New PDFcompress.Neevia`

**Visual C#:** `PDFcompress.Neevia NVcomp = new PDFcompress.Neevia();`

## Properties

### version

Returns the PDFcompress version

### Syntax

`value = NVcomp.version`

Data Type: String

### Linearize

Specifies whether the compressed PDF file should be linearized (Optimized for fast Web View).

Possible values: **true**, **false** (Default value: false)

### Syntax

`NVcomp.Linearize = value`

Data Type: Boolean

### PDFPassword

Specifies the open password to use when compressing an encrypted PDF file.

### Syntax

`NVcomp.PDFPassword = value`

Data Type: String

### Optimize

Specifies whether to optimize page content streams in the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

### Syntax

`NVcomp.Optimize = value`

Data Type: Boolean

### **LZWtoFlate**

In streams that use LZW encoding, use Flate instead

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.LZWtoFlate = value**

Data Type: Boolean

### **UnembedFonts**

Specifies whether to unembed the base 14 fonts from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.UnembedFonts = value**

Data Type: Boolean

### **removeBookmarks**

Specifies whether to remove bookmarks from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.removeBookmarks = value**

Data Type: Boolean

### **removeAnnotations**

Specifies whether to remove text annotations from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.removeAnnotations = value**

Data Type: Boolean

### **removeAcroForms**

Specifies whether to remove PDF forms from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.removeAcroForms = value**

Data Type: Boolean

### **removePageLabels**

Specifies whether to remove page labels from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.removePageLabels = value**

Data Type: Boolean

### **removeLayers**

Specifies whether to remove layers from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.removeLayers = value**

Data Type: Boolean

**removeArticleThreads**

Specifies whether to remove article threads from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVcomp.removeArticleThreads = value**

Data Type: Boolean

**removeTaggedInfo**

Specifies whether to remove tagged information from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVcomp.removeTaggedInfo = value**

Data Type: Boolean

**removePageThumbnails**

Specifies whether to remove page thumbnails from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVcomp.removePageThumbnails = value**

Data Type: Boolean

**removeDuplicates**

Specifies whether to remove duplicate fonts and color profiles from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVcomp.removeDuplicates = value**

Data Type: Boolean

**removeAltImages**

Specifies whether to remove alternate images from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVcomp.removeAltImages = value**

Data Type: Boolean

**removeNamedDestinations**

Specifies whether to remove named destinations from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVcomp.removeNamedDestinations = value**

Data Type: Boolean

**removeEmbeddedFiles**

Specifies whether to remove embedded files (attachments) from the compressed PDF file.

Possible values: **true**, **false** (Default value: false)

**Syntax**

**NVcomp.removeEmbeddedFiles = value**

Data Type: Boolean

## PreservePDFA

Specifies whether to preserve the PDF/A standard when compressing the PDF file.

Possible values: **true**, **false** (Default value: false)

### Syntax

**NVcomp.PreservePDFA = value**

Data Type: Boolean

## CreateObjectStreams

Specifies whether to create object streams when compressing the PDF file.

Possible values: **true**, **false** (Default value: false)

### Syntax

**NVcomp.CreateObjectStreams = value**

Data Type: Boolean

*Note: An object stream represents a stream that contains a sequence of PDF objects. This allows a greater number of PDF objects to be compressed.*

## CI

Specifies the color image compression algorithm.

Possible values:

**jpx** - JPEG2000 compression (default)

**jpg** - JPEG compression

**zip** - Deflate (ZIP) compression

**none** - Image will be left uncompressed

### Syntax

**NVcomp.CI = value**

Data Type: String

## CQ

Specifies the color image compression quality. Possible values: 0 .. 100 (default is 75).

### Syntax

**NVcomp.CQ = value**

Data Type: Integer

*Note: this parameter applies only to jpx and jpg compressions.*

## GI

Specifies the grayscale image compression algorithm.

Possible values:

**jpx** - JPEG2000 compression (default)

**jpg** - JPEG compression

**zip** - Deflate (ZIP) compression

**none** - Image will be left uncompressed

### Syntax

**NVcomp.GI = value**

Data Type: String



**GQ**

Specifies the color image compression quality. Possible values: 0 .. 100 (default is 75).

**Syntax**

**NVcomp.GQ = value**

Data Type: Integer

*Note: this parameter applies only to jpx and jpg compressions.*

**MI**

Specifies the monochrome image compression algorithm.

Possible values:

**jbig2** - JBIG2 lossy compression (default)

**jbig2l** - JBIG2 lossless compression

**fax** - Group 4 CCITT facsimile (fax) compression

**zip** - Deflate (ZIP) compression

**none** - Image will be left uncompressed

**Syntax**

**NVcomp.MI = value**

Data Type: String

**MQ**

Specifies the color image compression quality. Possible values: 0 .. 10 (default is 5).

**Syntax**

**NVcomp.MQ = value**

Data Type: Integer

*Note: this parameter applies only to jbig2 and jbig2l compressions.*

**CRT**

Specifies the threshold in DPI to activate color images resampling.

Default value: 0 - no resampling

**Syntax**

**NVcomp.CRT = value**

Data Type: Integer

**CRR**

Specifies the color image resolution in DPI after resampling.

Default value: 150

**Syntax**

**NVcomp.CRR = value**

Data Type: Integer

**GRT**

Specifies the threshold in DPI to activate grayscale images resampling.

Default value: 0 – no resampling

**Syntax**

**NVcomp.GRT = value**

Data Type: Integer

### **GRR**

Specifies the grayscale image resolution in DPI after resampling.  
Default value: 150

#### **Syntax**

**NVcomp.GRR = value**

Data Type: Integer

### **MRT**

Specifies the threshold in DPI to activate monochrome images resampling.  
Default value: 0 – no resampling

#### **Syntax**

**NVcomp.MRT = value**

Data Type: Integer

### **MRR**

Specifies the grayscale image resolution in DPI after resampling.  
Default value: 150

#### **Syntax**

**NVcomp.MRR = value**

## ***PDF Encryption related properties***

### **PDFEncrypt**

Specifies whether the output PDF file should be encrypted.

Possible values: **true**, **false** (Default value: false)

#### **Syntax**

**NVcomp.PDFEncrypt = value**

### **PDFEncryptMetaData**

Specifies whether the metadata in the output PDF file should be encrypted.

Possible values: **true**, **false** (Default value: true)

#### **Syntax**

**NVcomp.PDFEncrypt = value**

### **PDFEncryptionType**

Specifies the encryption algorithm

Possible values: "**rc4**" (high - 128 bits RC4 encryption - Acrobat 5-and-later compatible)

"**aes**" (high - 128 bits AES encryption - Acrobat 6-and-later compatible)

"**aes256**" (high - 256 bits AES encryption - Acrobat 9-and-later compatible)

"**aes256v2**" (high - 256 bits AES R6 encryption - Acrobat X-and-later compatible)

#### **Syntax**

**NVcomp.PDFEncryptionType = value**

Data Type: String

*Note: Will have effect only if PDFEncrypt = true.*

### **PDFUserPassword**

Sets the user password in the output document. Users will be asked to enter this password before Acrobat Reader allows them to view the document.

#### **Syntax**

**NVcomp.PDFUserPassword = value**

Data Type: String

*Note: Will have effect only if PDFEncrypt = true.*

### **PDFOwnerPassword**

Sets the output document owner password. This option will force the user of the PDF to enter a password before Acrobat Reader allows them to change the user password and security permissions.

#### **Syntax**

**NVcomp.PDFOwnerPassword = value**

Data Type: String

*Note: Will have effect only if PDFEncrypt = true.*

## PDFPermissions

PDF security permissions to use for encrypting output file. Possible values:

- p - document printing is denied
- c - changing the document is denied
- 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 bits encryptions:

- i - disables editing of form fields
- e - disables extraction of text and graphics
- d - disables document assembly
- q - disables high quality printing

### Syntax

**NVcomp.PDFPermissions = value**

Data Type: String

Example:

**NVcomp.PDFPermissions = "pcsaiedq"**

## ***PDF Initial View & Metadata related properties***

### **DocumentTitle**

Sets the output document Title field.

#### **Syntax**

**NVcomp.DocumentTitle = value**

Data Type: String

### **DocumentSubject**

Sets the output document Subject field.

#### **Syntax**

**NVcomp.DocumentSubject = value**

Data Type: String

### **DocumentAuthor**

Sets the output document Author field.

#### **Syntax**

**NVcomp.DocumentAuthor = value**

Data Type: String

### **DocumentKeywords**

Sets the output document Keywords field.

#### **Syntax**

**NVcomp.DocumentKeywords = value**

Data Type: String

### **PageMode**

Specifies how output file should be displayed when opened in PDF viewer. Possible values:

- 0** - Default view
- 1** - Page only
- 2** - Outlines (bookmarks) visible
- 3** - Thumbnail images visible
- 4** - Optional content group panel visible
- 5** - Attachments panel visible
- 6** - Full screen mode

#### **Syntax**

**NVcomp.PageMode = value**

Data Type: Long

### **PageLayout**

Specifies page layout to use when output file is opened in PDF viewer. Possible values:

- 1** - Displays one page at a time (default)
- 2** - Displays the pages in one column
- 3** - Displays the pages in two columns, with odd numbered pages on the left
- 4** - Displays the pages in two columns, with odd numbered pages on the right
- 5** - Displays the pages two at a time, with odd numbered pages on the left
- 6** - Displays the pages two at a time, with odd numbered pages on the right

#### **Syntax**

**NVcomp.PageLayout = value**

Data Type: Long

### OpenMagnification

Specifies the open magnification (in %) for output PDF file. Default value: 100

#### Syntax

**NVcomp.OpenMagnification = value**

Data Type: Long

### OpenAtPage

Specifies the open page for output PDF file. Default value: 1 (first page)

#### Syntax

**NVcomp.OpenAtPage = value**

Data Type: Long

### FitWindow

Specifies if PDF viewer should resize the document's window to fit the size of the first displayed page.

Possible values: **true, false**

#### Syntax

**NVcomp.FitWindow = value**

Data Type: Boolean

### CenterWindow

Specifies if PDF viewer should position the document's window in the center of the screen.

Possible values: **true, false**

#### Syntax

**NVcomp.CenterWindow = value**

Data Type: Boolean

### HideMenuBar

Specifies if Acrobat Reader should hide the menu bar when displaying the output PDF document.

Possible values: **true, false**

#### Syntax

**NVcomp.HideMenuBar = value**

Data Type: Boolean

### HideToolbar

Specifies if Acrobat Reader should hide the toolbar when displaying the output PDF document.

Possible values: **true, false**

#### Syntax

**NVcomp.HideToolbar = value**

Data Type: Boolean

### HideWindowUI

Specifies if Acrobat Reader should hide the user interface when displaying the output PDF document.

Possible values: **true, false**

#### Syntax

**NVcomp.HideWindowUI = value**

Data Type: Boolean

## Methods

### CompressPDF

Compresses the specified PDF file.

#### Syntax

```
Res = NVcomp.CompressPDF( fileToCompress, outputFile )
```

#### Parameters

**fileToCompress** - PDF file to compress.

**outputFile** - output PDF file name.

#### Example

```
Res = NVcomp.CompressPDF("c:\input.pdf", "c:\out.pdf")
```

#### Remarks

Res<>0 on error

#### Return codes

0 - Success

-1 - General compression error

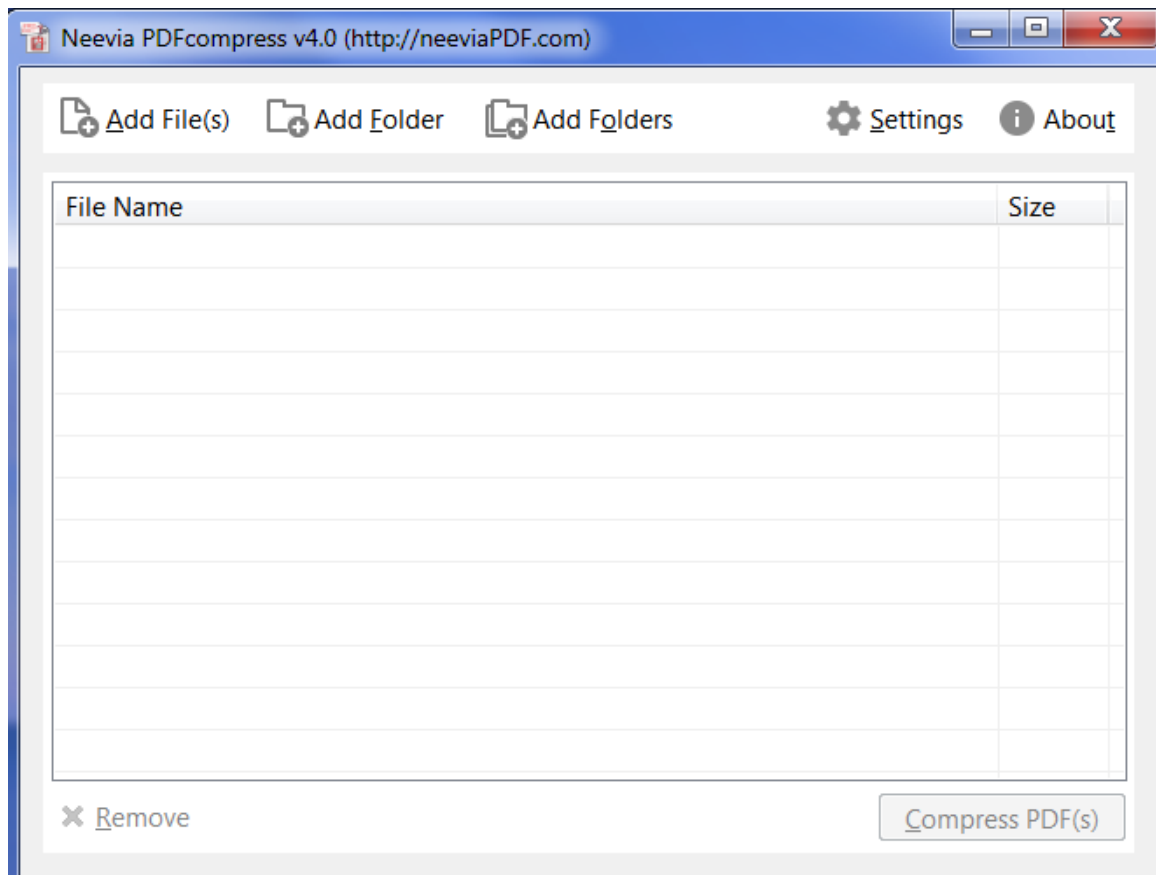
-109 - Input PDF has no pages (most likely a corrupt PDF file)

-200 ... -299 - these error codes are related to the input PDF parsing process (most likely the input PDF file is corrupted or has syntax errors);

-300 ... -399 - these error codes are related to the output PDF creation process (most likely the user account PDFcompress is called from doesn't have write permissions to the destination folder).

## Using the graphic interface to compress PDF files

In order to compress files using the graphic interface you need to run PDFcompress.exe located, by default, under C:\program files (x86)\neeviaPDF.com\PDFcompress\apps.

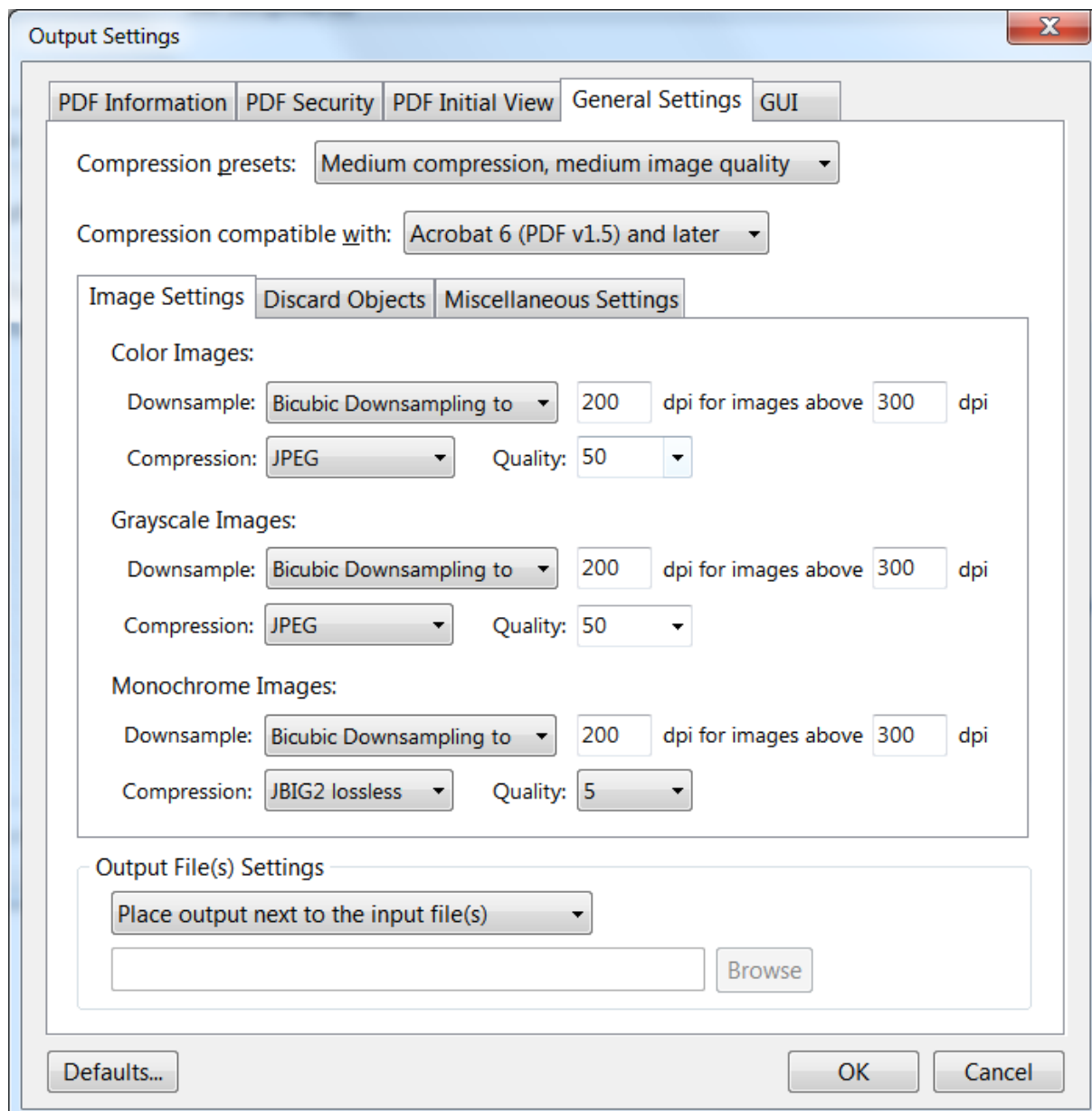


Click **Add files** to select the PDF file(s) to be compressed. In case you want to compress all PDF files in a folder simply click **Add Folder** to select the folder or **Add Folders** for multiple folders.



## Output Settings

Before compressing PDF files you need to specify the output settings. To do that click on the Settings button. The interface below will be displayed:



## General Settings

In this window you can specify the compression settings to be used during the file compression process.

First you need to select the compression compatibility level. There are three options:

1. Acrobat 4 (PDF v1.3)
2. Acrobat 5 (PDF v1.4)
3. Acrobat 6 (PDF v1.5 and higher)

**Image Settings** - the following options can be specified:

**ZIP compression** - this is a lossless algorithm which means that the content of your images will not change by compressing them. Basically ZIP works like this: it scans an image to detect patterns in it and replaces them by a single token. It can compress color, grayscale and monochrome images.

**JPEG compression** - designed specifically for compression of sampled continuous-tone (photographic) images and not for general data compression, JPEG is a lossy compression method. The compression results you can obtain using the JPEG algorithm depend on the image being compressed and the amount of loss that is acceptable. When JPEG is selected you can set the Image quality using values from 0 to 100. It can be used for color and grayscale images only.

**Fax compression** - designed to achieve efficient compression of monochrome (1 bit per pixel) image data at relatively low resolutions which means that it is useful only for bitmap image data, not for color images, grayscale images, or general data.

**JPEG2000 compression** - defines a wavelet-based method for image compression. Compared to other methods such as regular JPEG or CCITT, JPEG2000 gives a better size reduction. Although the filter can reproduce samples that are losslessly compressed, it is recommended only for use with color and grayscale images and not for general data compression. When JPEG2000 is selected you can set the Image quality using values from 0 to 100.

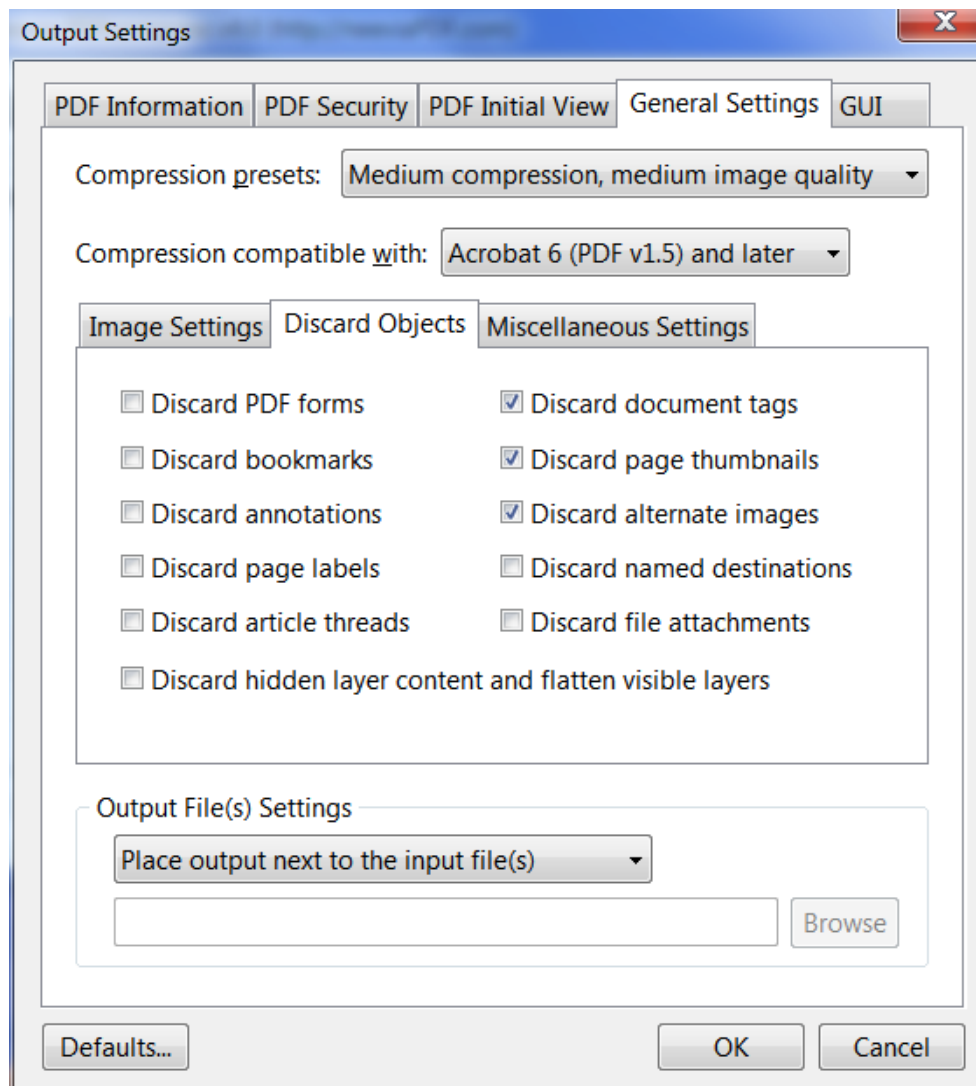
**JBIG2 compression** - designed for both lossless and lossy compression. Useful only for monochrome images, not for color images, grayscale images, or general data. Compared to CCIT, JBIG2 provides considerably better compression. The compression it achieves depends strongly on the nature of the image. Even though the best compression level is achieved for images of text, JBIG2 also includes algorithms for compressing sections of an image that contain dithered halftone images (valid mainly for photographs). When JBIG2 is selected (lossy or lossless) you can set the Image quality using values from 0 to 10.

**Downsample** - decreases the number of pixels in the image which in turn makes the file smaller. By default, all images above 225 dpi will be downsampled to 150 dpi using a bicubic algorithm.

**Output File(s) Settings** – use this option to specify where to save the compressed file. Select next to the input file(s) if you want to place the output file(s) in the same folder with the original document(s). In case you'd like to overwrite the input file(s) select Replace input file(s). To specify a different folder select Place output in folder and click Browse to open the folder.

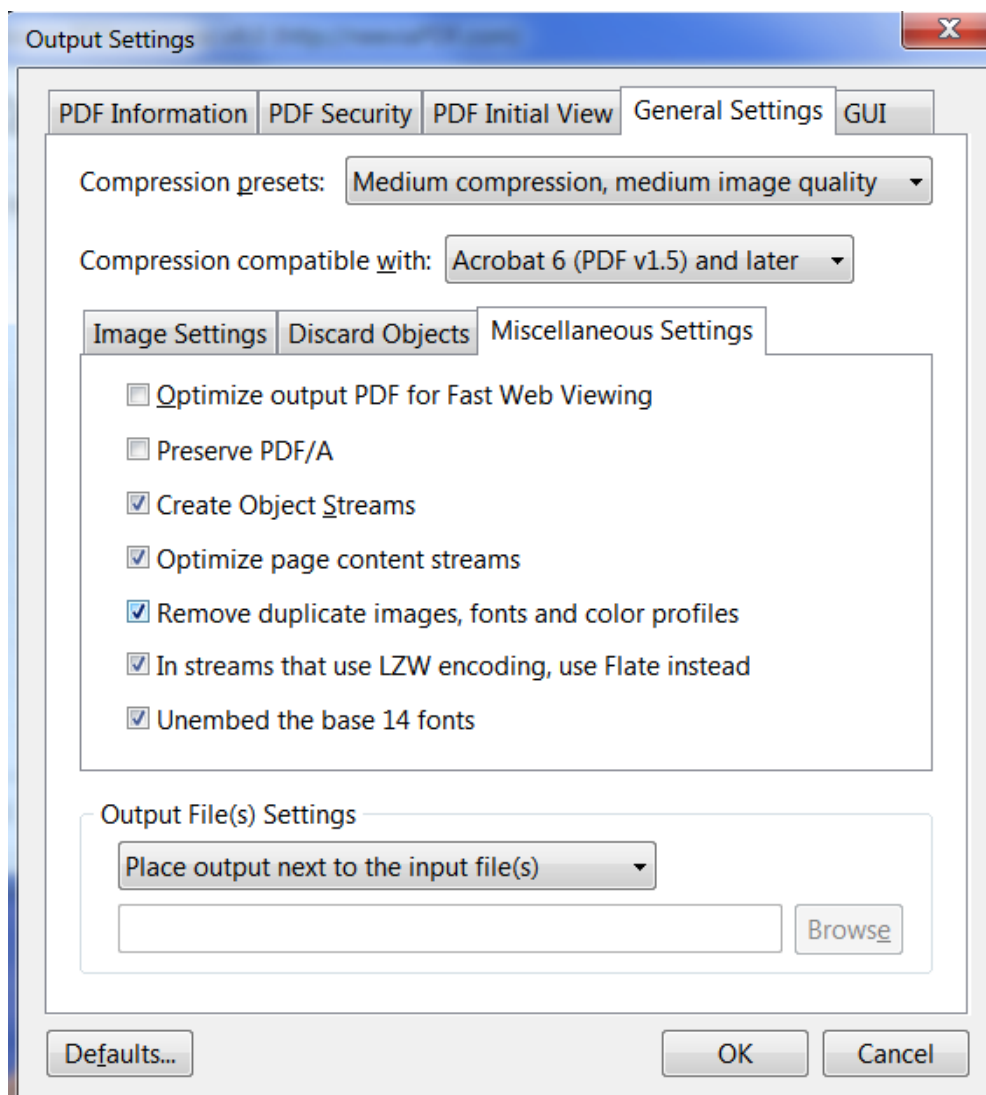
### Discard Objects

After you select your compression types click this tab to specify what to keep and what to remove from the input file during the compression process:



All objects listed in the above interface, when checked, will be removed if they are present in the input file.

## Miscellaneous Settings.

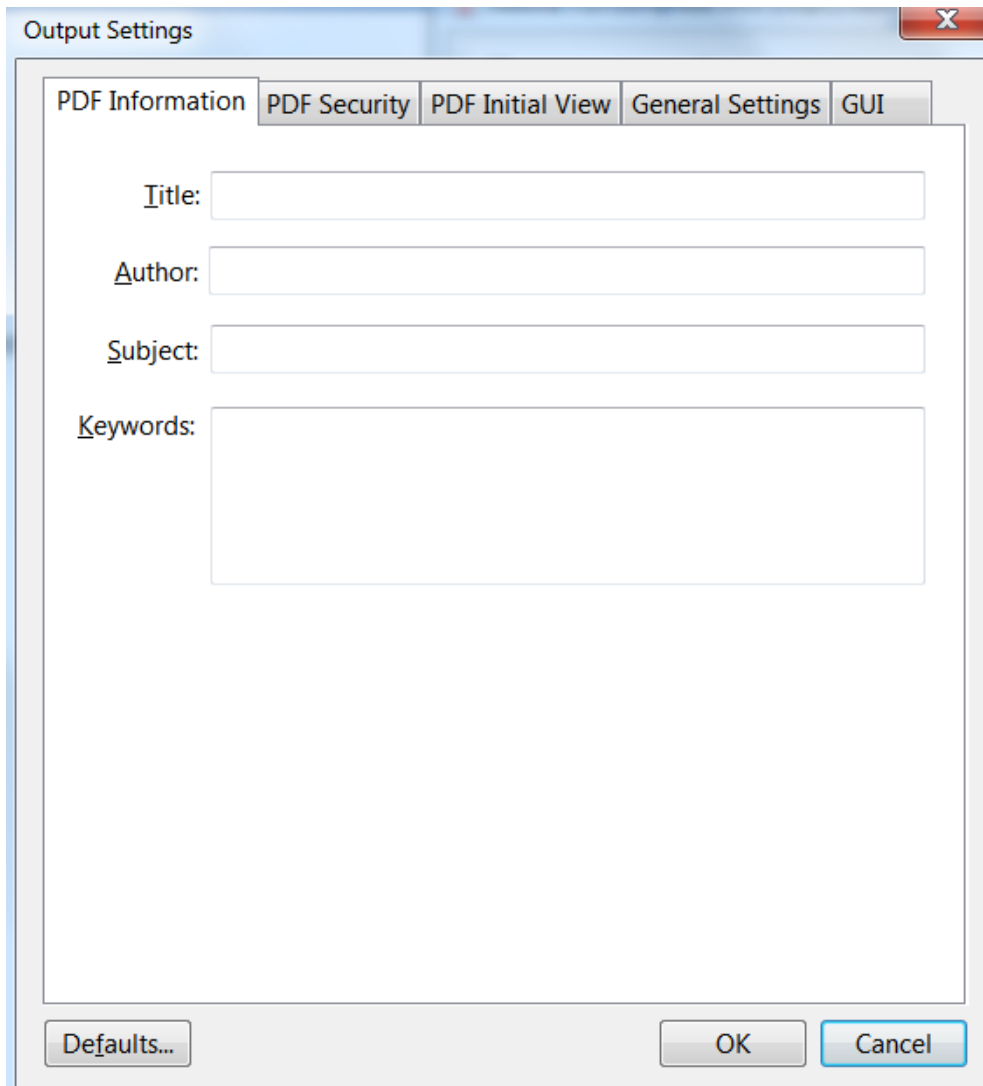


- **Optimize output file(s) for Fast Web Viewing** - this option restructures the resulting PDF document for page-at-a-time downloading (byte-serving) which is especially important with large documents that can take a long time to download from a server.
- **Create Object Streams** - valid only with Acrobat 6 (PDF v1.5) and higher. An object stream represents a stream that contains a sequence of PDF objects. This allows a greater number of PDF objects to be compressed.
- **Optimize page content streams** - this option restructures the page content to save space.
- **Preserve PDF/A** - keeps the PDF/A standard specified in the original document.
- **Remove duplicate images, fonts and color profiles** - removes redundant images, fonts and color profiles.

- **In streams that use LZW encoding use Flate instead** - applies Flate compression to all images and streams that use LZW.
- **Unembed the base 14 fonts** - removes any of the 14 base fonts that are embedded.

## PDF Information

In the interface below you can specify Title, Author, Subject and Keywords for the compressed file.

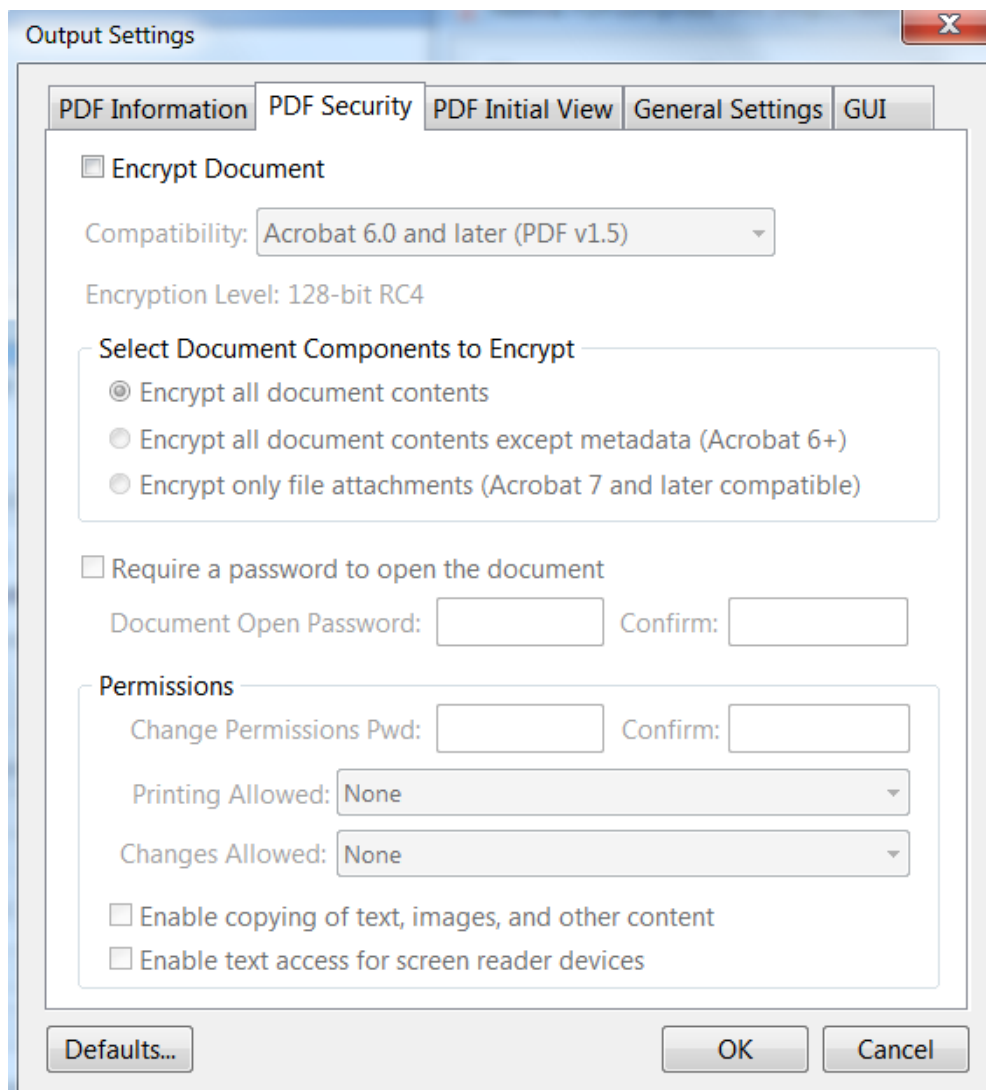


The image shows a screenshot of the 'Output Settings' dialog box, specifically the 'PDF Information' tab. The dialog box has a title bar with a close button (X) in the top right corner. Below the title bar, there are five tabs: 'PDF Information' (selected), 'PDF Security', 'PDF Initial View', 'General Settings', and 'GUI'. The main area of the dialog contains four text input fields:

- Title:** A single-line text input field.
- Author:** A single-line text input field.
- Subject:** A single-line text input field.
- Keywords:** A multi-line text input field.

At the bottom of the dialog, there are three buttons: 'Defaults...' on the left, 'OK' in the center, and 'Cancel' on the right.

## PDF Security



To encrypt the output PDF file(s), check **Encrypt Document** then select the encryption level from the Compatibility drop down box. There are 6 options:

- a. Acrobat 3.0 and later (PDF 1.2) enables 40 bit RC4 encryption (weak - not recommended)
- b. Acrobat 5.0 and later (PDF 1.4) enables 128 bit RC4 encryption
- c. Acrobat 6.0 and later (PDF 1.5) enables 128 bit RC4 encryption
- d. Acrobat 7.0 and later (PDF 1.6) enables 128 bit AES encryption
- e. Acrobat 9.0 and later (PDF 1.7) enables 256 bit AES encryption
- f. Acrobat X and later (PDF 1.7 ext 3) enables 256 bit AES R6 encryption

### Encrypt All Document Contents

When you select this option both the document and document metadata will be encrypted. Search engines will not be able to access the document metadata when this option is used.

**Encrypt All Document Contents Except Metadata**

It is valid for Acrobat 6 and later. Only the content of a PDF document will be encrypted. Metadata remains fully accessible for search engines.

**Require a Password to Open the Document**

This allows you to set a password for opening the encrypted PDF.

**Change Permissions Password**

This password prevents users from changing the permission settings. The user can view the file in Acrobat Reader but must enter the specified Permissions password in order to change the file's Security and Permissions settings.

**Permissions**

**Printing Allowed** - Specifies the level of printing that users are allowed for the PDF document.

Possible values:

**None** - Disables printing.

**Low Resolution (150 dpi)** - Users can print but the resolution will not be higher than 150-dpi. Each page is printed as a bitmap image which may cause files to print at a slower speed. To make this option available set the Compatibility option to Acrobat 5 (PDF 1.4) or later.

**High Resolution** - Allow users to print at any resolution. PostScript and other printers that come with high-quality printing features can be used.

**Changes Allowed** - Enables the editing actions that are allowed in the PDF document. Possible values:

**None** - when selected none of the changes listed in Changes Allowed drop down box, such as filling in form fields and adding comments are permitted.

**Inserting, Deleting, And Rotating Pages** - allows users to insert, delete, and rotate pages. Also bookmarks and thumbnails creation are permitted. This option works only for high (128-bit RC4 or AES) encryption.

**Filling in Form Fields and Signing Existing Signature Fields** - when selected users can fill in forms and add digital signatures. Adding comments or creating form fields is not permitted. This option works only for high (128-bit RC4, AES or AES256) encryption.

**Commenting, Filling In Form Fields and Signing Existing Signature Fields** - users are allowed to add comments, digital signatures and fill in forms. Moving page objects or create form fields is not permitted.

**Page Layout, Filling in Form Fields and Signing** - users can insert, rotate or delete pages and create bookmarks or thumbnail images, fill out forms, and add digital signatures. Creating form fields is not permitted. This option works only for low (40-bit RC4) encryption.

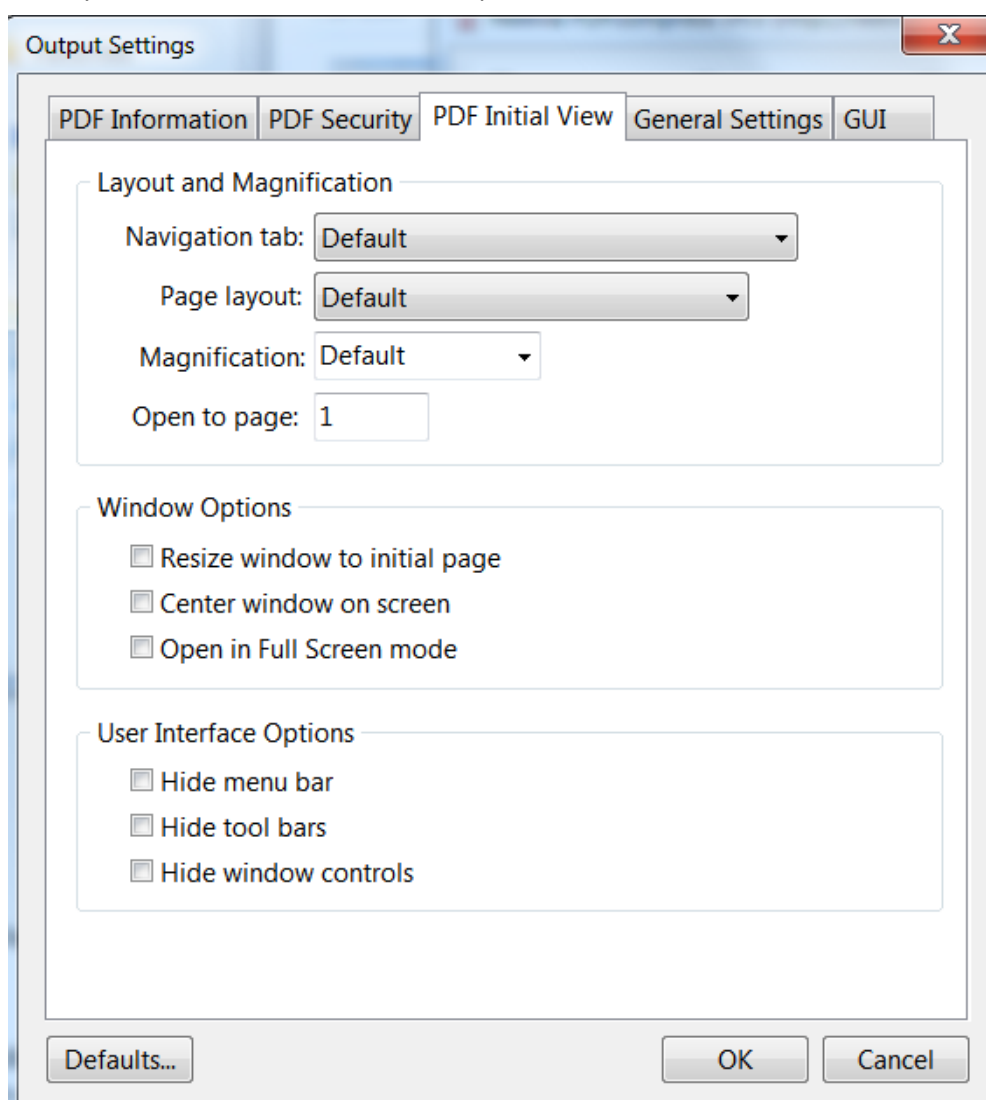
**Any Except Extracting Pages** - allows users to edit the document, create and fill in form fields, add comments and digital signatures.

**Enable Copying of Text, Images, and Other Content** - allows users to select and copy the contents of a PDF.

**Enable Text Access For Screen Reader Devices For The Visually Impaired** - when selected visually impaired users can read the document with screen readers. It doesn't allow users to copy or extract the document's contents. This option works only for high encryption (128-bit RC4, AES, AES256, AES256v2 ).

## PDF Initial View

In this window you can set the PDF Initial View options:



**Navigation Tab** - Specifies which panels are displayed in the PDF viewer navigation pane.

**Page Layout** - Specifies how document pages are arranged.

**Magnification** - use this to select at what zoom level the document will appear when opened.



**Open To Page** - Specifies the page that appears when the PDF document opens.

**Window Options** - these options allow you to specify how the PDF viewer window adjusts in the screen area when a PDF document is opened.

**Resize Window To Initial Page** - adjusts the document window to fit snugly around the opening page, taking into account the options that you selected under Document Options.

**Center Window On Screen** - instructs the PDF viewer to position the window in the center of the screen area.

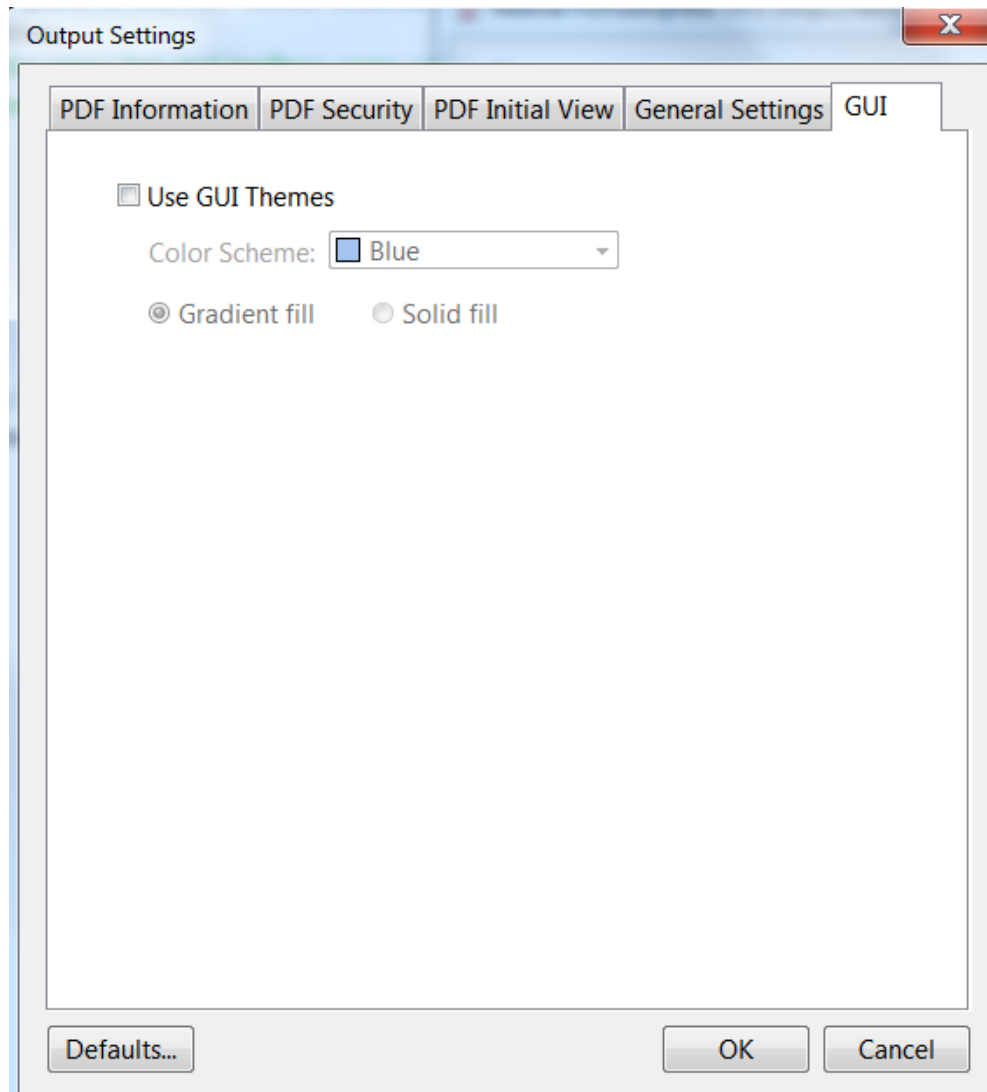
**Open In Full Screen Mode** - maximizes the document window and displays the document without the menu bar, toolbar, or window controls.

### **User Interface Options**

These options allow you to specify which parts of the PDF viewer interface - the menu bar, the toolbars, and the window controls - are hidden.

*Note: take into account that if you hide the menu bar and toolbars users cannot apply commands and select tools unless they know the keyboard shortcuts.*

## GUI - Graphic User Interface



In this window you can select the Graphic User Interface themes. Check Use GUI Themes to enable the Color Scheme. Once that is enabled check either Gradient fill or Solid fill to specify how the color will be displayed.

## CODE SAMPLES

For a full and updated list of PDFcompress code samples please visit <http://neeviaPDF.com/support/examples/pdfcompress/>

### Example 1vb. Compress a PDF file (high image quality, low compression) (Visual Basic)

```
Dim NVcomp : Set NVcomp = CreateObject("PDFcompress.Neevia")

NVcomp.Cl = "jpx"
NVcomp.CQ = 75

NVcomp.Gl = "jpx"
NVcomp.GQ = 75

NVcomp.Ml = "jbig2l"
NVcomp.MQ = 5

'For better compression uncomment the line below
' NVcomp.CreateObjectStreams = true

Dim retVal : retVal = NVcomp.CompressPDF("c:\in.pdf","c:\out.pdf")
If retVal <> 0 Then
    MsgBox("Error code=" & CStr(retVal))
Else
    MsgBox("Done")
End If
```

### Example 1delphi. Compress a PDF file (high image quality, low compression) (Delphi)

```
procedure TForm1.Button1Click(Sender: TObject);
var
    NVcomp : Variant;
    retVal : Integer;
begin
    NVcomp := CreateOleObject('PDFcompress.Neevia');

    NVcomp.Cl := 'jpx';
    NVcomp.CQ := 75;

    NVcomp.Gl := 'jpx';
    NVcomp.GQ := 75;

    NVcomp.Ml := 'jbig2l';
    NVcomp.MQ := 5;

    // For better compression uncomment the line below
    // NVcomp.CreateObjectStreams := true;

    retVal := NVcomp.CompressPDF('c:\in.pdf', 'c:\out.pdf');
    if retVal <> 0 then
        Application.MessageBox(PChar('Error code=' + IntToStr(retVal)), '', 0)
    else
        Application.MessageBox('Done', '', 0);
    end;
end;
```

**Example 2vb.** Compress a PDF file (low image quality, MAX compression) (Visual Basic)

```
Dim NVcomp : Set NVcomp = CreateObject("PDFcompress.Neevia")

NVcomp.CI = "jpx"
NVcomp.CQ = 10

NVcomp.GI = "jpx"
NVcomp.GQ = 10

NVcomp.MI = "jbig2"
NVcomp.MQ = 1

NVcomp.CreateObjectStreams = true

NVcomp.removePageLabels = true
NVcomp.removeArticleThreads = true

Dim retVal : retVal = NVcomp.CompressPDF("c:\in.pdf","c:\out.pdf")
If retVal <> 0 Then
    MsgBox("Error code=" & CStr(retVal))
Else
    MsgBox("Done")
End If
```

**Example 2delphi.** Compress a PDF file (low image quality, MAX compression) (Delphi)

```
procedure TForm1.Button1Click(Sender: TObject);
var
    NVcomp : Variant;
    retVal : Integer;
begin
    NVcomp := CreateOleObject('PDFcompress.Neevia');

    NVcomp.CI := 'jpx';
    NVcomp.CQ := 10;

    NVcomp.GI := 'jpx';
    NVcomp.GQ := 10;

    NVcomp.MI := 'jbig2';
    NVcomp.MQ := 1;

    NVcomp.CreateObjectStreams := true;

    NVcomp.removePageLabels := true;
    NVcomp.removeArticleThreads := true;

    retVal := NVcomp.CompressPDF('c:\in.pdf', 'c:\out.pdf');
    if retVal <> 0 then
        Application.MessageBox(PChar('Error code=' + IntToStr(retVal)), '', 0)
    else
        Application.MessageBox('Done', '', 0);
    end;
end;
```