

# Bluebeam Script Reference

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Bluebeam, Inc.  
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## Introduction

Scripting is integrated into Bluebeam Revu eXtreme. Revu manages the files that the scripts will act on. Scripts can be run on the active document, or in batch mode. Revu will automatically open, save, and close the PDF files depending on the mode, and whether or not the script is set to commit changes.

A major advantage of scripting within Revu is that a script can be assigned to a toolbar button. When pushed the script is run on the active document. Some commands are only available when running Scripts from within Revu; E-mail is such a command. For example a script could be written that stamps, flattens, and launches an e-mail with the PDF attached.

## Syntax

Bluebeam Scripts are a series of commands that are single word identifiers followed by a comma delimited list of parameters enclosed in paranthesis.

For example:

```
SetPDFSecurity('abacadabra', 193)
```

In this example the PDF file being processed would have PDF Security applied such that only printing and copying are allowed

There are several different types in Bluebeam Script:

Bool: Boolean values (true or false)

Number: Either an Integer or Real (1, 3.5, 0.2 ...)

String: Quoted list of characters ("document.pdf" ...) (the escape character is |)

Name: Unquoted list of characters containing lettings and numbers only. (Print, View, Flatten ...)

Color: A special string that represents a color that is either a name such as "Black" or "Red", or a hex string such as "#FF0000" which indicates Red, or an integer that contains the RGB values as packed bytes where B is the lowest byte.

Dictionary: A special string that represents a set of key/value pairs. The syntax is as follows: {"Key1":"Value1","Key2":"Value2"}

Date: A special string that represents an ISO 8601 compliant date in UTC. The format is YYYY-MM-DDThh:mm:ss

Additionally comments may be added by using the '%' character. Any characters following the comment character will be ignored until a new line character is encountered.

There are commands that return and accept string dictionaries containing key/value pairs of markup properties. The following keys are supported by those commands:

type = The type of markup such as square or polygon  
page = The page index that the markup occurs on  
author = The author of the markup  
subject = The subject of the markup  
comment = The comment of the markup  
color = The color of the markup  
colorfill = The fill color of the markup  
colortext = The text color of the markup  
opacity = The opacity of the markup from 0 to 1  
opacityfill = The fill opacity of the markup from 0 to 1  
rotation = The rotation of the markup in degrees from 0 to 360  
parent = The markup id of the markup's parent. Needed to understand the parent/child relationship of grouped markups  
grouped = Boolean value indicating if the markup is grouped  
status = The status of the markup, valid states are "Accepted", "Rejected", "Cancelled", "Completed", and "None"  
checked = Boolean value indicating that the markup is checked or unchecked  
locked = Boolean value indicating that the markup is locked or unlocked  
datecreated = The creation date of the markup  
datemodified = The modified date of the markup  
linewidth = The width of the line in points where 72 points equals 1 inch. For most markups the range is 0 to 12.  
linestyle = The style of the line, valid styles are "solid", "dashed1", "dashed2", "dashed3", "dashed4", "dashed5", "dashed6", "cloudy1", and "cloudy2"  
x = The x coordinate of the markup in points where 72 points equals 1 inch  
y = The y coordinate of the markup in points where 72 points equals 1 inch  
width = The width of the markup in points where 72 points equals 1 inch  
height = The height of the markup in points where 72 points equals 1 inch  
space = The space defined in the PDF that the markup resides in (read-only)  
layer = The layer that the markup is assigned to (read-only)  
captureCount = The number of capture images and video attached to the markup (read-only)

## Commands

### ***BalancePages***

#### *Description*

Inserts blank pages into active document to balance the total number of pages to an odd, even, specific count, or specific page division

## Parameters

**pType** [String]: Specifies how blank pages will be inserted at the end of the pdf file as follows:

- even = Inserts one page if needed to make count even
- odd = Inserts one page if needed to make count odd
- n = Inserts pages to make page count divisible by n, n is a number
- n = Inserts pages to make page count at least n pages, n is a number

**pWidth** [String, Optional]: Width of page in inches, last means width of last page

**pHeight** [String, Optional]: Height of page in inches, last means height of last page

**pStyle** [Number, Optional]: Page Style as follows:

- 0 = Blank
- 1 = Notebook
- 2 = 1/8" Grid
- 3 = 1/4" Grid
- 4 = Engineering Grid
- 5 = 0.5 cm Grid
- 6 = 1 cm Grid
- 7 = 1/2" Isometric Grid
- 8 = 0.5 cm Isometric Grid

## Example

```
BalancePages("even")
BalancePages(4, 8.5, 11, 1)
```

## Batch

### Description

Runs a script file on each specified PDF file. Any set of either PDF files or folders containing PDF files may be passed in as arguments. The filename of each PDF file will be passed in as arg0 to the script. See the [Script](#) command for more information about arg0.

### Parameters

**pScriptPath** [String]: Filename of the script file to run

**pIncludeSubFolders** [Bool]: If true sub-folders will be processed recursively

**pPath** [String]: File or directory of the PDF files to loop over

**pPathN** [String, Optional, ...]: File or directory of additional PDF files to loop over

### Example

```
Batch("script1.bci", "c:\Directory")
Batch("script1.bci", false, "c:\\Directory\\file1.pdf", "c:\\Directory\\file2.pdf", ...)
```

Where script1.bci contains:

```
Open(arg0)
ColorProcess("black", "white") % Convert file to grayscale
Close(true) % True specifies that the document should be saved before closing
```

## Close

### Description

Closes the active document removing it from the top of the stack.

### Parameters

**pSave** [Bool, Optional]: Boolean value specifying whether to save the document before closing

**pSaveMode** [Number, Optional]: Save Mode as Follows:

0 = Incremental Updates

1 = Publish

2 = Publish Compressed

### Example

```
Close()
```

```
Close(true)
```

```
Close(true, 2)
```

## ColorProcess

### Description

Converts page content colors to a color or gray scale.

### Parameters

**pStartColor** [Color]: Start color to convert source colors to, usually darker color

**pEndColor** [Color]: End color to convert source colors to, usually lighter color

**pScale** [Bool, Optional]: Indicates that colors should be scaled from start to end

**pProcessImages** [Bool, Optional]: Images should be converted to new colors

**pPageRange** [String, Optional]: List or range of pages to be processed, -1 will process all pages, exp:

1,2,10-20

### Example

```
ColorProcess("black", "white") % Convert to grayscale
```

```
ColorProcess("Red", "white", true, true, "10-20")
```

## ColumnDataGet

### Description

Retrieves the Custom Column data associated with a particular markup and returns the data for more than one column as a string dictionary, or a single column as a string.

### Parameters

**pPageIndex** [Number]: Page Index of the markup

**pMarkupID** [String]: ID associated with the markup

**pColumn** [String, Optional, ...]: Column name for which the data is associated

### Example

```
ColumnDataGet(0, "NDFJKXLKJKLDFY")
```

```
ColumnDataGet(0, "NDFJKXLKJKLDFY", "Material", "Subtotal")
```

## ColumnDataGetDict

### Description

Retrieves the Custom Column data associated with a particular markup and returns the data as a string dictionary.

### *Parameters*

**pPageIndex** [Number]: Page Index of the markup

**pMarkupID** [String]: ID associated with the markup

**pColumn** [String, Optional, ...]: Column name for which the data is associated

### *Example*

```
ColumnDataGetDict(0, "NDFJKXLKJKLDFY")
```

```
ColumnDataGetDict(0, "NDFJKXLKJKLDFY", "Material", "Subtotal")
```

## **ColumnDataSet**

### *Description*

Sets Custom Column data for a particular markup.

### *Parameters*

**pPageIndex** [Number]: Page Index of the markup

**pMarkupID** [String]: ID associated with the markup

**pData** [String]: Custom Column data as a string dictionary

### *Example*

```
ColumnDataSet(0, "NDFJKXLKJKLDFY", "{Material:'Glass'}")
```

## **ColumnsExport**

### *Description*

Exports the Custom Column definition of the active document to an .xml file.

### *Parameters*

**pFileName** [String]: Filename to export the columns into

### *Example*

```
ColumnsExport('columns.xml')
```

## **ColumnsImport**

### *Description*

Imports a Custom Column definition .xml file into the active document overwriting any existing Custom Columns. An .xml file can be generated by either the command ColumnsExport, or from within Bluebeam Revu.

### *Parameters*

**pFileName** [String]: Filename of the Custom Column definition .xml file to import into the active document

### *Example*

```
ColumnsImport("columns.xml")
```

## Combine

### Description

Takes each file specified as a parameter and combines them into a new PDF file that becomes the active document. The save command as seen in the example would save the newly combined PDF file.

### Parameters

**pFile1** [String]: Filename of the first pdf file to combine  
**pFile2** [String]: Filename of the second pdf file to combine  
**pFileN** [String, Optional, ...]: Filename of additional pdf files to combine.

### Example

```
Combine("document1.pdf", "document2.pdf", "document3.pdf" ...)  
Save("output.pdf")
```

## CreatePDFAReport

### Description

Generate a text report on whether a PDF file is PDF/A-1b compliant. Results will always be appended to the report file specified by the pFileName parameter.

### Parameters

**pFileName** [String]: Absolute full path to the report file to be created or updated.

### Example

```
CreatePDFAReport("C:\pdfa\report.txt")
```

## DeleteFile

### Description

Deletes a file from specified location.

### Parameters

**pFileName** [String]: Filename to delete from the file system

### Example

```
DeleteFile("c:\Directory\Filename.pdf")
```

## EmbedJavaScript

### Description

Embeds the sepecified JavaScript file as a document level script in the active document.

### Parameters

**pName** [String]: Name of JavaScript Code  
**pFile** [String]: JavaScript file to embed

### Example



```
EmbedJavaScript("File.js")
```

## **Export**

### *Description*

Exports the markups in the active document to the specified output file optionally using a User ID to filter on.

### *Parameters*

**pOutputBAX** [String, Optional]: Filename to export the markups into

**pUserID** [String, Optional]: User ID as used in bFX File Exchange to filter on when exporting markups

### *Example*

```
Export("output.bax")
```

```
Export("output.bax", "12345")
```

## **FilePropertyGet**

### *Description*

Returns the value of a file property that corresponds to the key passed in as a parameter. When not running in the *Interactive Mode*, this command will output the result straight to the console without first outputting a count for backwards compatibility.

### *Parameters*

**pKey** [String]: Key of file property to retrieve

### *Example*

```
FilePropertyGet("Author")
```

## **FilePropertyList**

### *Description*

Returns the keys of all file properties in the active document as a list of strings.

### *Parameters*

None

### *Example*

```
FilePropertyList()
```

## **FilePropertySet**

### *Description*

Sets a file property in the active document based on the specified key and value.

### *Parameters*

**pKey** [String]: Key of file property to set

**pValue** [String]: Desired value of file property

### Example

```
FilePropertySet("Author", "Homer J. Simpson")
```

## Flatten

### Description

Takes the active document and flattens all markups to be part of the page content.

### Parameters

**pRecoverable** [Bool, Optional]: Specifies whether or not the flatten process is reversible

**pFlags** [Number, Optional]: Specifies what type of markups to flatten

Default = 8191

Image = 1

Ellipse = 2

Stamp = 4

Snapshot = 8

Text and Callout = 16

Ink and Highlighter = 32

Line and Dimension = 64

Measure Area = 128

Polyline = 256

Polygon and Cloud = 512

Rectangle = 1024

Text Markups = 2048

Group = 4096

File Attachment = 8192

Flags = 16384

Notes = 32768

Form Fields = 65536

Add together all values that should be flattened

**pPageRange** [String, Optional]: List or range of pages to be flattened, -1 will flatten all pages, exp:  
1,2,10-20

**pLayerName** [String, Optional]: Layer Name to flatten markups to

### Example

```
Flatten()
```

```
Flatten(true)
```

```
Flatten(true, 9) % Flattens Images (1) and Snapshots (8)
```

## FormExport

### Description

Exports the form data in the active document to a .xml, .csv, or .fdf file.

### Parameters

**pFileName** [String]: Filename (.xml, .csv, or .fdf) to export the form data into

### Example

```
FormExport("formdata.fdf")
```

## FormImport

### Description

Imports an FDF file containing form data into the active document.

### Parameters

**pFileName** [String]: Filename of FDF file to import into the active document

### Example

```
FormImport("formdata.fdf")
```

## FormMerge

### Description

Merges the form data from a set of PDF files into one output file, either an .xml or .csv file.

### Parameters

**pFileName** [String]: Filename (.xml or .csv) to merge the form data into

**pIncludeSubFolders** [Bool]: If true sub-folders will be processed recursively

**pPath** [String]: File or directory of the PDF files to process for merging

**pPathN** [String, Optional, ...]: File or directory of additional set of PDF files to process for merging

## HeaderAndFooter

### Description

Applies headers and footers to the active document. There are many codes that can be passed in as part of the header or footer text that will be dynamically substituted when the text is applied to the document.

### Page Index Codes

```
<<1>>, <<1 of n>>, <<1/n>>, <<Page 1>>, <<Page 1 of n>>
```

### Date Codes

```
<<M/d>>, <<M/d/yy>>, <<M/d/yyyy>>, <<MM/dd/yy>>, <<MM/dd/yyyy>>, <<d/M/yy>>, <<d/M/yyyy>>, <<dd/MM/yy>>, <<dd/MM/yyyy>>, <<MM/yy>>, <<MM/yyyy>>, <<ddd MMM d, yyyy>>, <<dddd MMMM d, yyyy>>, <<MM/dd/yyyy h:mm tt>>, <<dd/MM/yyyy HH:mm>>
```

### Bates Numbering

```
<<Bates Number#Digits#Start#Prefix#Suffix>>
```

### Examples:

```
<<Bates Number#6#1#_Prefix#_Suffix>>, <<Bates Number#6#1>>
```

### File Properties

Headers and Footers also support pulling file property data from the PDF, any file property key can be used such as:

```
<<Title>>, <<Author>>, <<Client>> ...
```

### These are additional special codes:

```
<<FileName>>, <<Path>>, <<PageLabel>>
```

### Parameters

**pTopLeft** [String]: Header text for top left of page  
**pTopCenter** [String]: Header text for top center of page  
**pTopRight** [String]: Header text for top right of page  
**pBottomLeft** [String]: Footer text for bottom left of page  
**pBottomCenter** [String]: Footer text for bottom center of page  
**pBottomRight** [String]: Footer text for bottom right of page.  
**pMarginLeft** [Number, Optional]: Left margin in points (72 points per inch)  
**pMarginTop** [Number, Optional]: Top margin in points (72 points per inch)  
**pMarginRight** [Number, Optional]: Right margin in points (72 points per inch)  
**pMarginBottom** [Number, Optional]: Bottom margin in points (72 points per inch)  
**pFont** [String, Optional]: Name of font to use with header and footer  
**pSize** [Number, Optional]: Size of font  
**pBold** [Bool, Optional]: Emboldens font  
**pItalic** [Bool, Optional]: Italicizes font  
**pUnderline** [Bool, Optional]: Underlines text  
**pColor** [Color, Optional]: Font color  
**pFitToContent** [Bool, Optional]: Make content of page fit inside margins  
**pBatesOffset** [Number, Optional]: The offset of the bates numbering  
**pBatesKey** [String, Optional]: The unique key used to persistently store the last used Bates offset. Use this key to ensure that every bates number will be unique across documents.  
**pPageRange** [String, Optional]: List or range of pages to apply the header and footer to, -1 will apply to all pages, exp: 1,2,10-20

### Example

```
HeaderAndFooter("", "<<dddd MMMM d, yyyy>>",<<h:mm ss tt>>",<<Author>>","", "<<Page 1 of n>>",  
108, 28.8, 108, 48, "Blackadder ITC", 10.0, false, false, false, "Red"  
,false, 93, "1,3,5,10-20")
```

## Import

### Description

Imports the markups from list of files specified as parameters into the active document.

### Parameters

**pBAXorPDF** [String, ...]: Filename of a bax or pdf file to import into the active document

### Example

```
Import("markups1.bax", "markups2.bax" ...)  
Import("revA.pdf" ...)  
Import("markups1.bax", "revB.pdf" ...)
```

## InsertBlankPages

### Description

Inserts new blank pages into the active document using the specified parameters for width, height, count and style. The default count is 1 and the default style is blank.

### Parameters

**pIndex** [Number]: Page Index in the active document to insert pages after, 0 is before first page.  
**pWidth** [Number]: Width of page in inches

**pHeight** [Number]: Height of page in inches  
**pCount** [Number, Optional]: Number of pages to insert  
**pStyle** [Number, Optional]: Page Style as follows:

- 0 = Blank
- 1 = Notebook
- 2 = 1/8" Grid
- 3 = 1/4" Grid
- 4 = Engineering Grid
- 5 = 0.5 cm Grid
- 6 = 1 cm Grid
- 7 = 1/2" Isometric Grid
- 8 = 0.5 cm Isometric Grid

### *Example*

```
InsertBlankPages(0, 8.5, 11)  
InsertBlankPages(2, 8.5, 11, 10, 3)
```

## **InsertPages**

### *Description*

Inserts a PDF file into the active document using the specified parameters to control what additional data to be additionally imported such as bookmarks, file attachments, and file properties

### *Parameters*

**pIndex** [Number]: Page Index in the active document to insert pages after, 0 is before first page.  
**pFileName** [String]: Filename of document to insert  
**pBookmarks** [Bool, Optional]: Insert bookmarks from inserted file, default is false  
**pAttachments** [Bool, Optional]: Insert file attachments from inserted file, default is false  
**pProperties** [Bool, Optional]: Merge document properties from inserted file, default is false  
**pLayers** [Bool, Optional]: Merge document layers from inserted file, default is false  
**pUseFileName** [Bool, Optional]: User file name as Page Label, default is false

### *Example*

```
InsertPages(0, "Document.pdf")  
InsertPages(0, "Document.pdf", true, true, true, true)
```

## **MarkupCaptureExport**

### *Description*

Exports the photos and videos attached to the markup.

### *Parameters*

**pPageIndex** [Number]: Page Index of the markup  
**pMarkupID** [String]: ID associated with the markup  
**pFolder** [String, Optional]: The folder to extract the attachments to. If the folder does not exist it will be created. By default the folder will be the markup ID

## **MarkupCopy**

### *Description*

Returns an xml string that contains raw markup data that can be passed into `MarkupPaste` to be placed at a new location. If the markup is the parent of a group, then the whole group will be copied.

### Parameters

**pPageIndex** [Number]: Page Index of the markup  
**pMarkupID** [String]: ID associated with the markup

### Example

```
MarkupCopy(1, "YIBKQIOZSRMNDGD")
```

## MarkupDelete

### Description

Deletes a particular markup from the active document.

### Parameters

**pPageIndex** [Number]: Page Index of the markup  
**pMarkupID** [String]: ID associated with the markup

### Example

```
MarkupDelete(1, "YIBKQIOZSRMNDGD")
```

## MarkupGet

### Description

Retrieves the properties associated with a particular markup that returns multiple properties as a string dictionary, or a single property as a string. Refer to the [Markups](#) section for description of the available properties.

### Parameters

**pPageIndex** [Number]: Page Index of the markup  
**pMarkupID** [String]: ID associated with the markup  
**pProperty** [String, Optional, ...]: Particular markup property to retrieve

### Example

```
MarkupGet(1, "YIBKQIOZSRMNDGD")  
MarkupGet(1, "YIBKQIOZSRMNDGD", "subject")  
MarkupGet(1, "YIBKQIOZSRMNDGD", "type", "comment")
```

## MarkupGetEx

### Description

Retrieves the properties, including the custom ones, associated with a particular markup and returns those properties as a string dictionary, or a single property as a string. Refer to the [Markups](#) section for description of the available properties.

### Parameters

**pPageIndex** [Number]: Page Index of the markup  
**pMarkupID** [String]: ID associated with the markup

**pProperty** [String, Optional, ...]: Particular markup property to retrieve

#### *Example*

```
MarkupGetEx(1, "YIBKQIOZSRMNDGD")  
MarkupGetEx(1, "YIBKQIOZSRMNDGD", "subject")  
MarkupGetEx(1, "YIBKQIOZSRMNDGD", "type", "comment")
```

## **MarkupGetExList**

#### *Description*

Retrieves all of the properties, including the custom ones, for all of the markups on a given page as a string dictionary, or a single property as a string. Refer to the [Markups](#) section for description of the available properties.

#### *Parameters*

**pPageIndex** [Number]: Page Index

#### *Example*

```
MarkupGetExList(1)
```

## **MarkupList**

#### *Description*

Retrieves the list of markup IDs associated with a particular page.

#### *Parameters*

**pPageIndex** [Number]: Page Index

#### *Example*

```
MarkupList(1)
```

## **MarkupPaste**

#### *Description*

Pastes a markup passed in as raw XML at the coordinates provided. The raw XML would have been returned from a call to [MarkupCopy](#). Returns a list of markup IDs of the pasted markups.

#### *Parameters*

**pPageIndex** [Number]: Page Index of paste destination

**pXML** [String]: XML string containing raw markup data

**pX** [Number]: X coordinate of paste location in points (72 points per inch)

**pY** [Number]: Y coordinate of paste location in points (72 points per inch)

#### *Example*

```
MarkupPaste(1, "< ... Raw XML returned from MarkupCopy( ... ) ...>", 144, 72)
```

## **MarkupSet**

### Description

Sets properties for a particular markup. The data is passed in as a string dictionary containing key/value pairs. Refer to the [Markup](#) section for description of the available properties.

### Parameters

**pPageIndex** [Number]: Page Index of the markup  
**pMarkupID** [String]: ID associated with the markup  
**pData** [String]: Markup properties as a string dictionary

### Example

```
MarkupSet(1, "YIBKQIOZSROMNDGD", "{comment:'The color is red','color': '#FF0000'}")
```

## MarkupThumbnail

### Description

Generates a thumbnail of a markup. If the markup is the parent of a group, then the whole group will be rendered. Can have an extension of most common image formats including (.bmp, .png, .jpg ...).

### Parameters

**pPageIndex** [Number]: Page Index of the markup  
**pMarkupID** [String]: ID associated with the markup  
**pWidth** [Number]: Desired width in pixels of output thumbnail image  
**pHeight** [Number]: Desired height in pixels of output thumbnail image  
**pPercentage** [Number]: Desired percentage of the thumbnail that the markup should cover  
**pIncludePageContent** [Bool]: Boolean value specifying if the thumbnail should include the background page content  
**pFilename** [String]: Filename of desired output thumbnail image  
**pIncludeAllMarkups** [Bool, Optional]: Boolean value specifying if all markups on the page should be included in the thumbnail

### Example

```
MarkupThumbnail(1, "YIBKQIOZSROMNDGD", 256, 256, 0.5, true, "thumb.png", false)
```

## New

### Description

Creates a new blank PDF file using the specified parameters for width, height, count and style. The default size is 8.5x11", the default count is 1, and the default style is blank.

### Parameters

**pWidth** [Number, Optional]: Width of page in inches  
**pHeight** [Number, Optional]: Height of page in inches (required if width specified)  
**pCount** [Number, Optional]: Number of pages to create on new document  
**pStyle** [Number, Optional]: Page Style as follows:

- 0 = Blank
- 1 = Notebook
- 2 = 1/8" Grid
- 3 = 1/4" Grid
- 4 = Engineering Grid
- 5 = 0.5 cm Grid



6 = 1 cm Grid  
7 = 1/2" Isometric Grid  
8 = 0.5 cm Isometric Grid

### Example

```
New()  
New(8.5, 11)  
New(8.5, 11, 10, 3)
```

## Open

### Description

Opens the specified PDF file and pushes it to the top of the document stack thus making it active. If a password is required to open the PDF file, the password can be passed as the second parameter.

### Parameters

**pFilename** [String]: Filename of PDF file to open  
**pPassword** [String, Optional]: Password to open PDF file

### Example

```
Open("document.pdf")  
Open("document.pdf", "abacadabra")
```

## OpenImage

### Description

Converts and combines image files to PDF and pushes it to the top of the document stack thus making it active.

### Parameters

**plmage1** [String]: Filename of image to open  
**plmageN** [String, Optional, ...]: Filename of additional images to open

### Example

```
OpenImage("Picture1.jpg")  
OpenImage("drawing.tiff", "scan.png", "photo.jpg")
```

## PageCount

### Description

Returns the number of pages in the active document. When not running in the interactive mode, this command will output the result straight to the console without first outputting a count for backwards compatibility.

### Parameters

None

### Example

```
PageCount()
```

## PageDelete

### Description

Deletes pages from the current document.

### Parameters

**pPageRange** [String]: List or range of pages to delete. Cannot delete all pages. exp: 1,2,10-20

### Example

```
PageDelete("1,2,10-20")
```

## PageExtract

### Description

Extracts pages from the currently active pdf document.

### Parameters

**pPageRange** [String]: List or range of pages to Extract, -1 will extract all pages, exp: 1,2,10-20

**pFileNameOrDirectory** [String]: Filename or directory to save the extracted pages to

**pPrefix** [String, Optional]: A prefix that can be appended to the filename

**pSuffix** [String, Optional]: A suffix that can be appended to the filename

### Example

```
PageExtract("1-3", "c:\Directory\file.pdf")
```

```
PageExtract("1,5,10-20", "c:\Directory")
```

```
PageExtract("1,5,10-20", "filename.pdf")
```

```
PageExtract("1,5,10-20", "", "prefix_", "_suffix")
```

## PageRotate

### Description

Rotates the active document pages by 90 degree increments.

### Parameters

**pRotations** [Number]: Degrees to rotate pages by, must be multiple of 90

**pPortrait** [Bool, Optional]: Include portrait pages, default is true

**pLandscape** [Bool, Optional]: Include landscape pages, default is true

**pPageRange** [String, Optional]: List or range of pages to be Rotated, -1 will rotate all pages, exp:  
1,2,10-20

### Example

```
PageRotate(90)
```

```
PageRotate(-90, false, true, "10-20")
```

## PageRotateGet

### Description

Returns the page rotation of the active document corresponding to the index passed in as an integer in degrees.

### Parameters

**pIndex** [Number]: Page index to get the page rotation from

### Example

```
PageRotateGet(1)
```

## PageSize

### Description

Returns the page size of the active document corresponding to the index passed in as a parameter as a string list containing numbers formatted as strings. The first string is the page width, the second string is the page height. When not running in the interactive mode, this command will output the result straight to the console without first outputting a count for backwards compatibility.

### Parameters

**pIndex** [Number]: Page index to get page size from

### Example

```
PageSize(1)
```

## Print

### Description

Prints the active document to a physical printer. There are only 3 syntaxes available for this function, see examples below. If advanced printing options are required, all 9 parameters must be specified.

### Parameters

**pPrinter** [String, Optional]: Name of Printer

**pPageSize** [String, Optional]: Page size as it appears on Printer

**pLandscape** [Bool, Optional]: Whether to print landscape(true) or portrait(false)

**pPageRange** [String, Optional]: List or range of pages to be printed, -1 will print all pages, exp: 1,2,10-20

**pAutoRotateAndCenter** [Number, Optional]: Automatically rotated and center page content on paper.

-1 : Autorotate and center -90

0 : No autorotate and center

1 : Autorotate and center 90

**pScaleType** [Number, Optional]: Specifies how to scale when printing according to the following:

0 = None

1 = Fit to Paper

2 = Shrink large Images

3 = Custom

**pCustomScale** [Number, Optional]: If scale type is set to custom, this is the custom scale value (e.g. 0.5 would be 50%)

**pDim** [Bool, Optional]: Specifies whether to dim the content when printing

**pCopies** [Number, Optional]: Number of copies to print

### Example

```
Print()
```

```
Print("HP Laserjet")  
Print("HP Laserjet", "letter", false, "1-3", true, 1, 1, false, 1)
```

## PrintToFile

### Description

Prints the active document to a file. There are only 3 syntaxes available for this function, see examples below. If advanced printing options are required, all 10 parameters must be specified.

### Parameters

**pFileName** [String]: File to print output to

**pPrinter** [String, Optional]: Name of Printer

**pPageSize** [String, Optional]: Page size as it appears on Printer

**pLandscape** [Bool, Optional]: Whether to print landscape(true) or portrait(false)

**pPageRange** [String, Optional]: List or range of pages to be printed, -1 will print all pages, exp: 1,2,10-20

**pAutoRotateAndCenter** [Number, Optional]: Automatically rotated and center page content on paper.

-1 : Autorotate and center -90

0 : No autorotate and center

1 : Autorotate and center 90

**pScaleType** [Number, Optional]: Specifies how to scale when printing according to the following:

0 = None

1 = Fit to Paper

2 = Shrink large Images

3 = Custom

**pCustomScale** [Number, Optional]: If scale type is set to custom, this is the custom scale value (e.g. 0.5 would be 50%)

**pDim** [Bool, Optional]: Specifies whether to dim the content when printing

**pNumberOfCopies** [Number, Optional]: Number of copies to print

### Example

```
PrintToFile("out.prn")
```

```
PrintToFile("out.prn", "HP Laserjet")
```

```
PrintToFile("out.prn", "HP Laserjet", "letter", false, "1-3", true, 1, 1, false, 1)
```

## ReduceFileSize

### Description

Takes the active document and reduces file size.

### Parameters

**pReduceImageLevel** [String, Optional]: Specifies the compression ratio. Possible values are Low, Medium and High, the default is Low.

**pImageDPI** [Number, Optional]: Specifies the Image's maximum DPI, the default is 150.

**pDropFonts** [Bool, Optional]: Specifies if Fonts will be dropped or not, the default is true.

**pDropMiscellaneous** [Bool, Optional]: Specifies if Metadata, Thumbnails, Private Data, Unused Resources will be dropped or not, the default is true.

**pCompressAllStreams** [Bool, Optional]: Compress All Streams, the default is true.

### Example

```
ReduceFileSize()  
ReduceFileSize("High", 150, true, true, true)
```

## Repair

### Description

Runs a repair process on the active document using the specified options.

### Parameters

**pFixStripedImages** [Bool]: Groups neighboring image stripes into a single image  
**pCombineStripedImages** [Bool]: Attempts to merge groups of thin adjacent images into one image  
**pOptimizeSolidColorImages** [Bool]: Converts single color images into vector rectangles  
**pProcessMasks** [Bool]: Fixes AutoCAD files with Blend Modes and Masks  
**pRemoveTextClipping** [Bool]: Fixes AutoCAD files with text clipping problems  
**pSimplifyClippingPaths** [Bool]: Fixes Revit files with text clipping problems  
**pRepairFontIssues** [Bool]: Fixes issues with fonts

### Example

```
Repair(true, true, true, true, true, true, true)
```

## ReplacePages

### Description

Replaces pages in the current document with pages from the source document.

### Parameters

**pSourceFileName** [String]: PDF document to get pages from  
**pSourcePages** [String]: List or range of all source pages to use, -1 will use all pages, exp: 1,2,10-20  
**pPagesToReplace** [String]: List or range of pages to replace, -1 will replace all pages, exp: 1,2,10-20  
**pContentOnly** [Bool, Optional]: If true only the page content will be replaced leaving markups and hyperlinks

### Example

```
ReplacePages("c:\Directory\test.pdf", "1", "1")  
ReplacePages("c:\Directory\test.pdf", "3,6", "4,7", true)
```

## ReversePages

### Description

Reverses all pages in the document.

### Parameters

None

## Save

### Description

If no parameters are specified it will save the file over itself. Otherwise it will save the file to the specified

file location without changing the source file.

### Parameters

**pFileName** [String, Optional]: Filename to save the file or directory to save file to using same filename.

**pSaveMode** [Number, Optional]: Save Mode as Follows:

- 0 = Incremental Updates
- 1 = Publish
- 2 = Publish Compressed

### Example

```
Save()  
Save("output.pdf")  
Save("output.pdf", 1)
```

## SaveAsPDFA

### Description

Converts the current PDF document into a PDF/A-1b document.

### Parameters

**pFileName** [String, Optional]: Full path or file name to the PDF/A-1b document being saved.

### Example

```
SaveAsPDFA()  
SaveAsPDFA("C:\pdfa\output.pdf")
```

## Script

### Description

Runs the script file specified as a parameter. Be careful to avoid infinite looping. Inside of a script file, arguments starting with `arg0 ...` can be used instead of fixed values. At run time, the arguments will be substituted with the passed in values. The `Batch` command relies on the arguments in order to dynamically run a script on a set of files. In older versions of the Script Engine, this command supported passing multiple scripts as parameters, that functionality no longer works in order to support the new argument functionality.

### Parameters

**pScriptPath** [String]: Filename of script to run

**Arg0** [String, Optional]: Argument parameter to pass to script, sets key `arg0`

**ArgN** [String, Optional, ...]: Argument parameter to pass to script, sets key `argN`

### Example

```
Script("script1.bci")  
Script("script1.bci", "arg0", "arg1", ...)
```

## SetOpenPassword

### Description

Sets open password on active document.

### Parameters

**pOpenPassword** [String]: The open password need to open PDF

**pEncryptionLevel** [String, Optional]: Encryption Level to use. Values can be RC4, AES128 or AES256.

### Example

```
SetOpenPassword("abacadabra")
```

## SetPDFSecurity

### Description

Applies security permissions to the active document.

### Parameters

**pPermissionPassword** [String]: Password to lock pdf permissions

**pFlags** [Number]: Specifies what permission are allowed

```
Print = 1  
PrintLowOnly = 2  
FillForms = 4  
EditMarkups = 8  
EditDocument = 16  
PageManipulation = 32  
CopyContent = 64  
Accessibility = 128
```

Add together values to set permissions

**pOpenPassword** [String, Optional]: Password used to open the pdf file

**pEncryptionLevel** [String, Optional]: Encryption Level to use. Values can be RC4, AES128 or AES256.

### Example

```
SetPDFSecurity("master", 1)  
SetPDFSecurity("master", 13, "open")
```

## SplitPages

### Description

Extracts all pages in page range to individual files.

### Parameters

**pPageRange** [String]: List or range of pages to Extract, -1 will extract all pages, exp: 1,2,10-20

**pDirectory** [String]: Directory to save the extracted pages to

**pUsePageLabels** [Bool, Optional]: Use page labels to name extracted pages as pdf files.

**pPageFormat** [String, Optional]: Format to number files names for multiple pages, if pUsePageLabels is true then this parameter will be ignored

### Example

```
SplitPages("-1", "c:\Directory")  
SplitPages("1,5,10", "c:\Directory", true )  
SplitPages("1,5,10-20", "c:\Directory", false, " Page 001")
```

## Stamp

### Description

Places a stamp on the active document using the specified parameters.

### Parameters

**pFileName** [String]: Filename of Stamp

**pOrigin** [String]: Origin of where to place the stamp as follows:

"upperleft"  
"upperright"  
"lowerleft"  
"lowerright"  
"center"  
"uppercenter"  
"lowercenter"

**pXOffset** [Number]: X Offset from origin in inches

**pYOffset** [Number]: Y Offset from origin in inches

**pRotation** [Number, Optional]: Rotation in Degrees

**pScale** [Number, Optional]: Scale (e.g. 0.5 would be 50%)

**pOpacity** [Number, Optional]: Opacity (0.4 would be 40% opacity)

**pBlendMode** [String, Optional]: Blend Mode as follows:

"normal"  
"multiply"  
"screen"  
"overlay"  
"darken"  
"lighten"  
"colordodge"  
"colorburn"  
"hardlight"  
"softlight"  
"difference"  
"exclusion"  
"luminosity"  
"hue"  
"saturation"  
"color"

**pPageRange** [String, Optional]: List or range of pages to be stamped, -1 will stamp all pages, exp:  
1,2,10-20

**pLocked** [Bool, Optional]: Specifies whether or not the stamp should be locked

### Example

Stamp("mystamp.brx", "lowerright", 0.5, 1.0, 0, 1, 1, "normal")

## Thumbnail

### Description

Creates a thumbnail of given width and height and saves it to the specified filename. Can have an extension of most common image formats including (.bmp, .png, .jpg ...)



### *Parameters*

**pWidth** [Number]: Desired width in pixels of output thumbnail image

**pHeight** [Number]: Desired height in pixels of output thumbnail image

**pFileName** [String]: Filename of desired output thumbnail image.

**pPageFormat** [String, Optional]: Suffix used when generatating thumbnails for multiple pages. " Page 001" would cause the resulting files to be named "File Page 001 .png", "File Page 002.png" ...

**pPageRange** [String, Optional]: List or range of pages to have thumbnails generated for, -1 will generate thumbnails for all pages, exp: 1,2,10-20

**pShowPopups** [Bool, Optional]: Indicates that popups should be included

### *Example*

```
thumbnail(320, 200, "thumbnail.png")
```

## **Unflatten**

### *Description*

Reverses the flattening process on the active document.

### *Parameters*

**pPageRange** [String, Optional]: List or range of pages to unflatten, -1 will unflatten all pages, exp: 1,2,10-20

### *Example*

```
Unflatten()
```

## **UnlockPDFA**

### *Description*

Unlocks the current PDF/A-1b document for editing.

### *Parameters*

None

### *Example*

```
UnlockPDFA()
```

## **UserNameGet**

### *Description*

Returns the user name to use when adding or modifying markups

### *Parameters*

None

### *Example*

```
UserNameGet()
```

## **UserNameSet**

### *Description*

Sets the user name to use when adding or modifying markups

### *Parameters*

**pUserName** [String]: User name

### *Example*

```
UserNameSet("Homer J. Simpson")
```

## **View**

### *Description*

Launches a file to be opened in the default viewing application. With no parameters specified the active document will be viewed, dirty document must be saved before calling view. Note that this is not limited to PDF files.

### *Parameters*

**pFileName** [String, Optional]: Filename of file to view

### *Example*

```
View()  
View("document.pdf")
```