

**NAME**

**pagelayoutapi** – API for the pagelayout LaTeX class

**SYNOPSIS**

**pagelayoutapi getwidth** % FILE

**pagelayoutapi getheight** % FILE

**pagelayoutapi optimize** % FILE % FILENAME % EXTENSION % ORIGINALWIDTH % ORIGINALHEIGHT % CROPLEFT % CROPRIGHT % CROPTOP % CROPBOTTOM % DENSITY % WIDTH % HEIGHT % DOWNSAMPLETHRESHOLD % UNSHARP % QUALITY

**pagelayoutapi makeshadow** % FILENAME % STANDARDDEVIATION % OPACITY % COLOR % WIDTH % HEIGHT % FRAMEWIDTH % FRAMEHEIGHT % MARGIN % BORDERRADIUS

**pagelayoutapi start** [% import % [GRAPHICSPATH]] [% turbo % JOBNAME]

**pagelayoutapi batchoptimize** % BATCHLIST

**DESCRIPTION**

This script provides an API for the pagelayout LaTeX class.

**pagelayoutapi getwidth**

Returns the width in pixels for the given image file.

**pagelayoutapi getheight**

Returns the height in pixels for the given image file.

**pagelayoutapi optimize**

Creates a cropped, resized, sharpend and compressed image and stores it in the cache directory.

**pagelayoutapi makeshadow**

Creates a shadow image and stores it in the cache directory.

**pagelayoutapi start**

The import parameter triggers the image import (see pagelayout–manual.pdf chapter "Image Optimization"). Running the command with the parameter turbo, where the jobname is the filename of the document, processes the document in a special batch mode, that creates a batch list and calls the command **pagelayoutapi batchoptimize**.

**pagelayoutapi batchoptimize**

Optimizes multiple images in parallel.

**OPTIONS**

**--help** Prints a help message.

**--version**

Prints version information.

**PARAMETERS**

FILE filename with extension (eg. IMG1234.JPEG)

FILENAME

filename without extension (eg. IMG1234)

**EXTENSION**

optimized file extension (.jpg|.png)

**DENSITY**

density in ppi (eg. 72)

**DOWNSAMPLETHRESHOLD**

downsample threshold (integer  $\geq 100$ )

**UNSHARP**

unsharp filter (eg. 2x1)

**QUALITY**

quality (integer  $> 0$ ,  $\leq 100$ )

**STANDARDDEVIATION**

standard deviation (decimal  $> 0.0$ )

**OPACITY**

opacity (decimal  $\geq 0.0$ ,  $\leq 1.0$ )

**COLOR**

color string (eg. pink)

**GRAPHICSPATH**

list of directories (eg. {images/}{tmp/})

**JOBNAME**

LaTeX filename without extension (eg. my-document)

**BATCHLIST**

a flat list of batch items where each batch item is a flat list of the 15 parameters required by the command ‘`pagelayoutapi optimize`’

All other parameters are length dimensions. The command **pagelayoutapi optimize** expects integer values in the LaTeX unit sp (eg. 65536). The command **pagelayoutapi makeshadow** expects decimal values in a SVG compatible unit (eg. 420.0pt).

**ENVIRONMENT**

**pagelayoutapi** requires ImageMagick 7.0 or later and Inkscape 1.0 or later.

**PAGELAYOUT\_IMPORT\_DIRECTORY**

Defines a system wide import directory.

**AUTHOR**

**pagelayoutapi** was written by Friedemann Bartels. <https://github.com/friedemannbartels>

**LICENSE**

Copyright (c) 2022–2023 Friedemann Bartels. Free use of this software is granted under the terms of the LaTeX Project Public License version 1.3c or later.