NAME

memoize-extract.pl, memoize-extract.py - Extract extern pages out of the PDF

SYNOPSIS

memoize-extract.pl [*OPTIONS*] *document.mmz*

memoize-extract.py [*OPTIONS*] *document.mmz*

DESCRIPTION

memoize-extract is a script accompanying Memoize, a TeX package which allows the author to reuse the results of compilation-intensive code such as TikZ pictures.

Memoize dumps the created externs (boxes containing the typeset material to be reused) onto their own pages in the produced PDF file. It is the job of **memoize-extract** to extract these extern pages into separate PDF files. At subsequent compilations, Memoize will include those extern files into the document, without compiling their source again.

Memoize communicates with **memoize-extract** through file *document.mmz*. When *document.tex* is compiled to produce *document.pdf*, Memoize produces *document.mmz*, which records which pages in the produced document are extern pages and to which extern files they should be extracted. Therefore, after compiling *document.tex*, the externs should be extracted by **memoize-extract** *document.mmz*.

document.mmz also records the expected width and height of each extern. In case of a mismatch, **memoize-extract** refuses to extract the page and removes the extern file if it already exist, and prints a warning message to the standard error. The script furthermore refuses to extract the page if a (c)c-memo associated to the extern does not exist, and to write to any file whose absolute path does not occur under the current directory or the directory set by TEXMFOUTPUT (in *texmf.cnf* or as an environment variable); TEXMFOUTPUT is also not allowed to point to the root directory, except on Windows, where it can only point to a drive root.

The Perl (.pl) and the Python (.py) version of the script are functionally equivalent. The Perl script requires library PDF::API2 (https://metacpan.org/pod/PDF::API2), and the Python script requires library pdfrw2 (https://pypi.org/project/pdfrw2).

OPTIONS

-P, --pdf *filename.pdf*

The externs will be extracted from *filename.pdf*. By default, they are extracted from *document.pdf*.

-p, --prune

Remove the extern pages from the PDF after extraction.

-k, --keep

Do not modify the *document.mmz* to mark the externs as extracted. By default, they are commented out to prevent double extraction.

-f, --force

Extract the extern even if the size-check fails.

-l, --log *filename*

Log size mismatches to *filename* rather than to the standard error.

-w, --warning-template *string*

Wrap the size mismatch warning text into the given template: \warningtext in the template will be replaced by the warning text.

-q, --quiet
>Don't describe what's happening.

-e, --embedded
>Prefix all messages to the standard output with the script name.

-m, --mkdir
>A paranoid *mkdir -p*. (No extraction occurs, *document.mmz* is interpreted as a directory name.)

-h, --help
>Show help and exit.

-V, --version
>Show the Memoize version number and exit.

SEE ALSO
>Memoize manual (https://ctan.org/pkg/memoize), section 6.6.1.