

README

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This file conforms to the **VHIST** format developed at the Max-Planck-Institute for Neurological Research with Klaus-Joachim-Zielch-Laboratories of the Max Planck Society and the Faculty of Medicine of the University of Cologne, Cologne, Germany (MPINF).

VHIST is an open specification, a detailed description and some related tools are available under the terms of an OpenSource license, <http://www.nf.mpg.de/vhist>.

Please see the **LEGAL NOTICE** below before proceeding.

When you use VHIST at your institute, you can adjust the content of this page by changing the **title.txt** file in the res directory of your VHIST installation.

The general idea behind VHIST is to provide a robust and simple means for documenting a step of a workflow (e.g. quantification of a PET image volume, or (automated) image processing using SPM) by logging all relevant information: which files were used, which files were written, what software package was used with what parameters. VHIST was conceived for usage on top of existing workflows: ideally, you only have to add one line to an existing batch script.

VHIST files can act like a container for arbitrary chunks of information: you can embed log-files, (binary) image and header data. VHIST also conforms to the PDF-1.5 standard and can be used with standard PDF browsers (embedded data appears as embedded files in PDF browsers, each addition to an existing workflow file strictly retains all previous information).

However, particular care was taken to facilitate extraction and processing of data (embedded files, in particular the automatically generated XML summary of a workflow step) in an automated fashion and entirely independent of PDF specifics: the human-readable summaries for each workflow step have only been provided as a convenience. A program written in the Python programming language (xtract.py, 30 lines, can be found at the beginning of this file when opened with a text editor) has been attached to this document: it is sufficient (apart from a suitable Python distribution) to extract all relevant information from this file.

LEGAL NOTICE

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\$Id: title.txt 2705 2013-04-22 09:17:01Z ahuesgen \$

WS:

Title:

Added: 2013-06-26 13:21:56

Host: stibbons, **User:** ahuesgen

Command: ["echo", "VHISTIFY: size[voxels]=[64, 64, 48]"]

=== User-defined arguments =====

returnValue: 0

requiredTime [sec]: {"system": 0.020, "user": 0.000, "elapsed": 0.010}

cwd: /daten/ahuesgen/projects/vhist/www/examples

size [voxels]: [64, 64, 48]

--- OUTPUT FILE(S) -----

File: [stdout.log](#)

Path: /tmp/tmpEWN0Dh-pyvhist-2013-06-26_13-21-56/tmpRKj7IG

Description: stdout and stderr

Embedded: yes, **MD5:** f6b0a9e00b5f726d059c6aabcd556092

Size: 36 Bytes, **Last Modified:** 2013-06-26 13:21:56

--- SUMMARY FILE -----

Embedded workflow summary (XML): [ws_summary.xml](#)

Size: 1789 Bytes, **MD5:** 0ac6af92ae2d2963e218ffb50b6994c5