Pyxam Cheat Sheet

Running Pyxam

Usage pyxam.py [Options] template

Command	liet
Command	$_{\rm HSL}$

out	-O	[file]	Set the output directory
temp	$-\mathrm{tmp}$	[file]	Set the temporary directory
figure	-fig	[file]	Set the figure directory
number	-n	[int]	Set the number of exams to generate
sample	$-\mathrm{smp}$	[int]	Set the default sample number
recompilation	-r	[int]	Set the number of recompilations
title	-t	[title]	Set the exam name
format	-f	[format]	Set the export format (tex, pdf, dvi, html)
shell	-shl	[shell]	Set the shell (python, matlab, octave, julia)
method	-m	[method]	Set the selection method (random, sequence)
population	-p	[file]	Set the class list for mixing
solutions	-s		Enable solutions
alphabetize	-a		Enable lettered versioning rather than numbered
clean	-c		Enable LaTeX cleanup
interactive	-i		Enable interactive pdflatex
logging	-l		Enable logging

Disable file cleanup (keep temporary files)

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Import a single question file

For more details see README.md

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LaTeX Commands

Python:

debug

<<>>>= @	Run Fython code and print verbatim
<<echo=False $>>= @$	Run Python code silently
<%%>	Run Python code snippet and print the result
<%=%>	Run Python code snippet silently
	Run Python code snippet and print the result

Importing Questions:

\Pimport{file}

(<u>-</u>	P
<pre>\Pimport{file1 file2}</pre>	Import either file1 or file2
<pre>\Pimport[n]{file}</pre>	Import a single question file n times
\Pimport{dir}	Import a single question from directory dir
\Pimport[n]{dir1 dir2 dir3}	Import n questions from dir1, dir2, or dir3

Constants:

\Pconst{VERSION}	Get the exam version number or letter
\Pconst{TITLE}	Get the exam title
\Pconst{STUDENT}	Get a student's name
\Pconst{STUDNUM}	Get a student's number

Options:

\Parg{args} Equivalent to running pyxam.py [args] template

Examples

See examples/template.tex for a simple exam that implements all of Pyxam's features

See examples/exam.tex for examples of more complex problems

See examples/qithub.tex for an introductory guide to github

See README.md for a general overview of the tools and basic usage

Development Tools

Github

The version control system used for Pyxam. Github allows for easy management and access of source code. Github can be found at https://github.com/andtheprojectpage for Pyxam can be found at https://github.com/balancededge/pyxam.

Git-Cola

A GUI client for github on Unix systems. A convenient tool when working with a larger number of files in sub directories where the command line may be less suitable. Git-Cola can be installed through Yast.

PyCharm

A Python IDE with all the bells and whistles. PyCharm makes programming Python easy and enjoyable whilst also still being one of the most responsive editors available. PyCharm Community edition is free and can be found at https://www.jetbrains.com/pycharm/.

Dillinger.io

A Markdown browser based editor. Dillinger is simple and elegant a great solution for writing Markdown documents. Dillinger can be found at http://dillinger.io/.

Emacs

A powerful and configurable text editor. An ideal environment when working in a large variety of programming languages and with a large number of file formats. Emacs can be installed through Yast.

Emacs Shortlist

М-р	Previous shell command
C-x- C - v RET	Refresh the currently selected buffer
C-x-1	Close all windows except the currently selected one
C-x-2	Split window vertically
C-x-3	Split window horizontally
C-x-0	Close the currently selected window
C-x-k RET	Kill the currently selected buffer