# Pyxam Cheat Sheet v0.3.5

## Running Pyxam

Usage `$ pyxam [Options] template`

**Command list:**

| | | | |
|---|---|---|---|
| help | -h | | Show a list of options |
| version | -v | | Show Pyxam's version number |
| format | -f | [format] | Set export format |
| title | -t | [title] | Set the title of the exam |
| alphabetize | -a | | Enable lettered versioning |
| solutions | -s | | Enable soultions |
| out | -o | [out] | Set the output directory |
| tmp | -tmp | [tmp] | Set the temporary directory |
| figure | -fig | [figure] | Set the figure directory |
| population | -p | [population] | Set class list |
| method | -m | [method] | Set selection method for CSVs |
| number | -n | [number] | Set the number of exams to generate |
| recomps | -r | [recomps] | The number of LaTeX recompilations |
| shell | -shl | [shell] | Set shell used to weave the exam |
| noweave | -w | | Disable pweave |
| list | -ls | | List all available formats |
| plugins | -plg | | List all currently loaded plugins |
| htmltemplate | -htt | [htmltemplate] | Specify an HTML template file |
| docs | -docs | | Build Pyxam's docs for use locally |
| gitdocs | -gdocs | | Build Pyxam's docs for use on Github |
| api | -api | | Run Pyxam in api mode |
| debug | -d | | Disable file cleanup |
| logging | -l | [logging] | Set the logging level for pyxam<br>10: DEBUG<br>20: INFO<br>30: WARNING<br>50: CRITICAL |

For more details see README.md

## Inline Python Variables and Functions

`pyxam.number`
: The exam version number starting from 0

`pyxam.version`
: The exam version, either a number starting from 1 or a letter starting from A

`pyxam.student_first_name`
: The student's first name if available or a placeholder in the solutions document

`pyxam.student_last_name`
: The student's last name if available or a placeholder in the solutions document

`pyxam.student_name`
: The student's full name if available or a placeholder in the solutions document

`pyxam.wildcard(min=None, max=None, set=None, n=pyxam.number, decimals=0)`
: Create a wildcard that can be used to pick from a list or generate a set of random numbers

`pyxam.import_question(path)`
: Pastes the content of the file

`pyxam.args(args)`
: Set command line arguments from the document, not all options are useable

`pyxam.shuffle(choices)`
: Takes a list of strings and prints them out in a random order

`pyxam.numerical(solution, tolerance=0, percent=False)`
: Create a numerical question with a set tolerance

`pyxam.calculated(equation, tolerance=0, percent=False)`
: Creat a calculated question with a set tolerance, the equation must be provided as a string in moodle syntax

`pyxam.dataset(*wildcards)`
: Add a list of wildcards to the questions dataset so they can be used in moodle

`pyxam.categorize(course, category)`
: Questions will be added to the given course category in moodle

## Examples

See *examples/pyxam_tex_standard.tex* for an example tex file

See *examples/pyxam_org_standard.org* for an example org file

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

## Emacs Shortlist

| | |
|---|---|
| M-p | 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 |