



Python Debugger Cheatsheet



Getting started

`import pdb;pdb.set_trace()` start pdb from within a script
`python -m pdb <file.py>` start pdb from the commandline

Basics

`h(elp)` print available commands
`h(elp) command` print help about *command*
`q(uit)` quit debugger

Examine

`p(rint) expr` print the value of *expr*
`pp expr` pretty-print the value of *expr*
`w(here)` print current position (including stack trace)
`l(ist)` list 11 lines of code around the current line
`l(ist) first, last` list from *first* to *last* line number
`a(rgs)` print the args of the current function

Miscellaneous

`!stmt` treat *stmt* as a Python statement instead of a pdb command
`alias map stmt` map Python statement as a map command
`alias map <arg1 ...> stmt` pass arguments to Python statement.
stmt includes %1, %2, ... literals.

Save pdb commands to local `<./pdbrc>` file for repetitive access.

Movement

`<ENTER>` repeat the last command
`n(ext)` execute the current statement (step over)
`s(tep)` execute and step into function
`r(eturn)` continue execution until the current function returns
`c(ontinue)` continue execution until a breakpoint is encountered
`u(p)` move one level up in the stack trace
`d(own)` move one level down in the stack trace

Breakpoints

`b(reak)` show all breakpoints with its *number*
`b(reak) lineno` set a breakpoint at *lineno*
`b(reak) lineno, cond` stop at breakpoint *lineno* if Python condition *cond* holds, e.g. `i==42`
`b(reak) file:lineno` set a breakpoint in *file* at *lineno*
`b(reak) func` set a breakpoint at the first line of a *func*
`tbreak lineno` set a temporary breakpoint at *lineno*, i.e. is removed when first hit
`disable number` disable breakpoint *number*
`enable number` enable breakpoint *number*
`clear number` delete breakpoint *number*

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See <https://github.com/nblock/pdb-cheatsheet> for more information.