



# 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/nbloek/pdb-cheatsheet> for more information.