

# WORKING WITH *pdb* in PYTHON

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# PYTHON DEBUGGER

`Lib/pdb.py`



# INVOCATION

```
import pdb; pdb.set_trace()
```

*or*

```
python -m script.py
```

*\* or*

```
pdb.post_mortem()
```

# COMMANDS

`help` *or* `?`

*list commands*

`help` `<name>`

*get info on* `<name>`

REPEAT *the* LAST COMMAND

*by typing* ↩

# COMMANDS

`list` or `l`      *show 11 lines around*

`longlist` or `ll`      *show whole source-  
code for the current  
function or frame*

p d b + + / i p d b , D R O P - I N R E P L A C E M E N T

a p t   i n s t a l l   p d b p p   i p d b

# COMMANDS

`next` or `n`      *evaluate line; go  
to next*



# COMMANDS

`print` or `p` *print the value*

`pp` *pretty-print*

# COMMANDS

`continue` or `c`     *continue execution  
of the program*

*\* watch out for* `set_trace`

# COMMANDS

`quit` *or* `q`      *exit* *pdb*

*\*watch out for* `set_trace`

# COMMANDS

`step` or `s`     *step into selected  
function*

# COMMANDS

`args`

*display all arguments  
passed to function all*

# COMMANDS

**until** (*[lineno]*)     *continue until a  
line or end of a  
frame*

# COMMANDS

<code>return</code> or <code>r</code>	<i>skip to end of a function</i>
<code>retval</code>	<i>print function's return value</i>

# COMMANDS

**break** *or* **b**      *list breakpoints*

**b** *[lineno]*      *set breakpoint*

**clear** *or* **cl** *([id])*      *clear breakpoint(s)*



# COMMANDS

## CONDITIONAL BREAKPOINTS

**b** *[lineno], [expression]*

**b** 77, x == 4

# COMMANDS

**where** or **w** *inspect the current stack*

**up** or **u** *go up the stack*

**down** or **d** *go down the stack*

# COMMANDS

`interact`     *open interpreter  
in the current  
scope*

# COMMANDS

`pdb.run`      *parse and exec string*

`pdb.runcall`      *run call with args*

```
pdb.run(" 'foo(7)' ")
```

```
pdb.runcall(foo, 7)
```

EXAMPLE

# CUSTOMIZATION

`.pdbrc`

*customize your  
pdb experience*

# LINKS

*Python documentation*

[docs.python.org/3/library/pdb.html](https://docs.python.org/3/library/pdb.html)

*In-depth pdb*

[static.yergler.net/in-depth-pdb/](https://static.yergler.net/in-depth-pdb/)

*So you think you can pdb?*

[youtube.com/watch?v=P0pIW5tJrRM](https://youtube.com/watch?v=P0pIW5tJrRM)

*Python module of the week - pdb*

[pymotw.com/3/pdb/](https://pymotw.com/3/pdb/)

# QUESTIONS