pdb cheatsheet

Invoking the debugger

Enter at the start of a program, from the command line:

```
python -m pdb mycode.py
```

Enter in a statement or function:

```
import pdb
# your code here
if __name__ == '__main__':
    # start debugger at the beginning of a function
    pdb.runcall(function[, argument, ...])
    # execute an expression (string) under the debugger
    pdb.run(expression)
```

Enter at a specific point in the code:

```
import pdb
# some code here
# the debugger starts here
pdb.set_trace()
# rest of the code
```

In ipython:

%pdb enter the debugger automatically after an exception is raised %debug enter the debugger post-mortem where the exception was thrown

Debugger commands

00	
h (help) [command]	print help about command
n (next)	execute current line of code, go to next line
c (continue)	continue executing the program until next
	breakpoint, exception, or end of the program
s (step into)	execute current line of code; if a function is called, follow execution inside the function
I (list)	print code around the current line
w (where)	show a trace of the function call that led to the current line
p (print)	print the value of a variable
q (quit)	leave the debugger
b (break) [lineno function[, condition]]	set a breakpoint at a given line number or function, stop execution there if condition is fulfilled
cl (clear)	clear a breakpoint
! (execute)	execute a python command
<enter></enter>	repeat last command