Cheatography

iPython History Cheat Sheet by vjust via cheatography.com/20548/cs/3299/

History flags summarized.

Flags for the history command

hist -n -- print line numbers

hist -g -- print history for your past sessions (not just the current one)

hist -f filename.py -- writes history lines to filename.py

hist -1 10 -- will limit output to last 10 lines

hist -g timeit -- will filter lines that contain the string "timeit"

hist -u -g timeit -- same as filter, but will only print unique lines

hist -o -n -- also print outputs

Note: Typing history?? in iPython will give you similar info.

Previous iPython sessions

Syntax:hist -n ~1/

hist -n ~1/20 - means one session back, and 20th input line hist -n ~2/20 - means two sessions back, and 20th input line Using hist -n 20 (i.e. without the ~ sign) defaults to the current ipython session.

Re-execute a history line

Syntax:rerun <history reference>

rerun 20 will execute line 20 of the current session

rerun ~1/20 will execute line 20 of the previous session

rerun 88-90 will execute lines 88,89, 90 of history

Recalling input history (for inline editing)

Syntax:recall <history reference>

1. recall 42 -- will recall line 42, and give you the prompt for editing 2. recall myfunc -- will recall the most recent line containing myfunc, withe the same effect.

Hitting enter after the edit will execute.

Saving history to a file

Syntax:save filename.py <history reference>

1.save mymodule.py 22-40 25 -- Saves lines 22-40, 25 to file

mymodule.py

2.save -a -- will append

Grepping or filtering history lines

Syntax:hist -g <reg exp>

hist -g func1 -- will list all history lines containing "func1" hist -gn func1 -- same thing. adds line numbers

Editing history in an editor

Syntax: edit <history reference>

edit 24 28 47 - loads the lines in order, in your configured ipython editor

Output history editing via the "_oh" variable

Summary : lpython allows you to edit both your past inputs, as well as past command outputs - so you if you want to avoid retyping this is handy. The built-in list variable "_oh" contains all your output history.

Syntax : "edit _oh[<line-num of output history>]"

use "edit _oh[165]" to open output line 165 in your editor. Example --

In [165]: def myfunc():

print "hello"

In [200] : edit 165 # opens line 165 in editor we made changes to that func w/o saving it to a file out[200]: def myfunc()\n print "hello" \n

In [210]: edit _oh[200] # loads the func in editor

Use "edit -x" in case you are editing non-code stuff (to prevent) execution when you leave the editor.

Edit a function that you defined inline

Syntax : edit <funcname>

Example - An inline function is defined interactively, and then edited.

In [1] : def myfunc() print "hello' In [2] edit myfunc

Create a macro from history

Use the %macro command to create a macro from multiple history lines. Example (lines 10 and 11) from history are as follows : 10: x=1 11: somefunc(x) You can create a macro as follows : In [20]: %macro my_macro 10-11

Now typing my_macro will execute those lines.



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