

TOOL

Cheat Sheet: Linux and IPython

Help and Autocompletion

Command	Description
<code>obj?</code>	print documentation about obj
<code>obj??</code>	print documentation about obj and any available source code defining it
<code>obj.</code>	list the attributes of obj (accessible via . typed after obj)
<code>sometext<AB></code>	show list of possible completions after any initial characters

IPython Magic Functions (prefaced with %)

Information on magic functions

Command	Description
<code>%magic</code>	print in-depth information about set of available magic functions
<code>%lsmagic</code>	print names of all available magic functions
<code>%timeit?</code> , <code>%lsmagic?</code> , <code>%who?</code>	print help for any magic function by appending ? to the end, e.g.,
<code>%timeit?</code>	to get information about %timeit



Running code, and inspecting commands and variables

Command	Description
%run filename	execute the python code in filename, and bring everything from that module's namespace into the current interactive namespace
%hist	print list of full command history in current session • %hist -f filename : save list of full command history to filename
%who	print list of all defined variables
%whos	print list of all defined variables and their values
%debug	activate the interactive debugger after an error has occurred (requires knowledge of Python pdb debugger operation)
%pprint	toggle “pretty printing” on and off (may help with viewing contents of large objects)
%timeit expression	run specified Python expression, and return information how long it took to run

Interactions with the Operating System (files, etc.)

The commands below are Linux commands that you can run in iPython.

Command	Description
%ls	list files in current directory
%more filename	print the contents of filename to the screen
%cp	copy one file to another, or to another directory (e.g., %cp file1 file2)
%mv	rename one file to another, or to another directory (e.g., %mv file1 file2)
%mkdir directory_name	make a new directory called directory_name
%cd directory_name	change current directory to specified directory_name • %pwd : print the current directory
![command]	execute the specified command in the system shell (e.g., !ls -l)

