Getting Started with MATLAB, Python and R

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1 Help

1.1 Getting Help

Language Browse help interactively

Help on using help Help for a function Help for a toolbox/library package Demonstration examples Example using a function MATLAB/Octave doc

Octave: help -i % browse with Info help help or doc doc help plot help splines or doc splines demo Python help()

help(plot) or ?plot help(pylab) R help.start()

help() help(plot) or ?plot help(package='splines') demo() example(plot)

1.2 Searching available help documentation

Language Search help files Find objects by partial name List available packages Locate functions List available methods for a function MATLAB/Octave lookfor plot

help which plot Python

help(); modules [Numeric] help(plot) R
help.search('plot')
apropos('plot')
library()
find(plot)
methods(plot)

1.3 Using interactively

Language Start session Auto completion Run code from file Command history Save command history End session MATLAB/Octave
Octave: octave -q
Octave: TAB or M-?
foo(.m)
Octave: history
diary on [..] diary off
exit or quit

Python
ipython -pylab or JupyterLab
TAB
execfile('foo.py') or run foo.py
hist -n

CTRL-D CTRL-Z # windows sys.exit() R RStudio

source('foo.R')

history()
savehistory(file=".Rhistory")
q(save='no')

2 Basic Operators

2.1 Getting help on operator syntax

Language Help on operator syntax MATLAB/Octave help -

Python

help(Syntax)

2.2 Arithmetic operators

Language MATLAB/Octave Python R
Help on operator syntax help - help(Syntax)