

my octave cheat sheet

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1 Main octave links

1. http://en.wikipedia.org/wiki/GNU_Octave
2. <http://www.gnu.org/software/octave/>
3. <http://octave.sourceforge.net/index.html>

2 How to install octave?

For windows, to install octave 3.8, I downloaded the installer from <http://octave.osuv.de/3.8/windows/>

```
>> ver
-----
GNU Octave Version 3.8.0
GNU Octave License: GNU General Public License
Operating System: MINGW32_NT-6.1 Windows 7 Service Pack 1 i686
```

For Linux, easy way is `apt-get install octave`

might want to do `apt-get autoremove` before.

3 How to install additional packages?

On octave 3.8, I found an install file called `build_packages.m` in the folder `C:\Octave\Octave-3.8.0\src` which is where octave 3.8 was installed using the window installer mentioned above.

Then from octave I simply run the above file. This installed all packages in the src folder



An example command is `pkg ('install', 'communications-1.2.0.tar.gz')`

After the above was completed, here is the list

```
>> pkg list
Package Name      | Version | Installation directory
-----+-----+-----
    actuarial *|   1.1.0 | ...\octave\packages\actuarial-1.1.0
  communications |   1.2.0 | ...\octave\packages\communications-1.2.0
        control *|   2.6.1 | ...\share\octave\packages\control-2.6.1
    data-smoothing |   1.3.0 | ...\octave\packages\data-smoothing-1.3.0
fuzzy-logic-toolkit |   0.4.2 | ...\packages\fuzzy-logic-toolkit-0.4.2
        general |   1.3.2 | ...\share\octave\packages\general-1.3.2
        geometry |   1.7.0 | ...\share\octave\packages\geometry-1.7.0
          image |   2.2.0 | ...\share\octave\packages\image-2.2.0
            io |   1.2.0 | ...\share\octave\packages\io-1.2.0
```

```
linear-algebra | 2.2.0 | ...\\octave\\packages\\linear-algebra-2.2.0
miscellaneous | 1.2.0 | ...\\octave\\packages\\miscellaneous-1.2.0
odepkg | 0.8.4 | ...\\share\\octave\\packages\\odepkg-0.8.4
optim | 1.2.2 | ...\\share\\octave\\packages\\optim-1.2.2
quaternion *| 2.2.0 | ...\\octave\\packages\\quaternion-2.2.0
signal | 1.2.2 | ...\\share\\octave\\packages\\signal-1.2.2
sockets | 1.0.8 | ...\\share\\octave\\packages\\sockets-1.0.8
specfun | 1.1.0 | ...\\share\\octave\\packages\\specfun-1.1.0
struct | 1.0.10 | ...\\share\\octave\\packages\\struct-1.0.10
windows | 1.2.1 | ...\\share\\octave\\packages\\windows-1.2.1
zenity | 0.5.7 | ...\\share\\octave\\packages\\zenity-0.5.7

>>
```

Before I used to do this:

go to <http://octave.sourceforge.net/index.html> find a package you need then type
`pkg install package_file_name.tar.gz` from inside octave

see also this link

<http://www.gnu.org/software/octave/doc/interpreter/Installing-and-Removing-Packages.html>

4 How to find what packages are installed?

use `pkg list`