

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.suv.de/3.8/windows/>

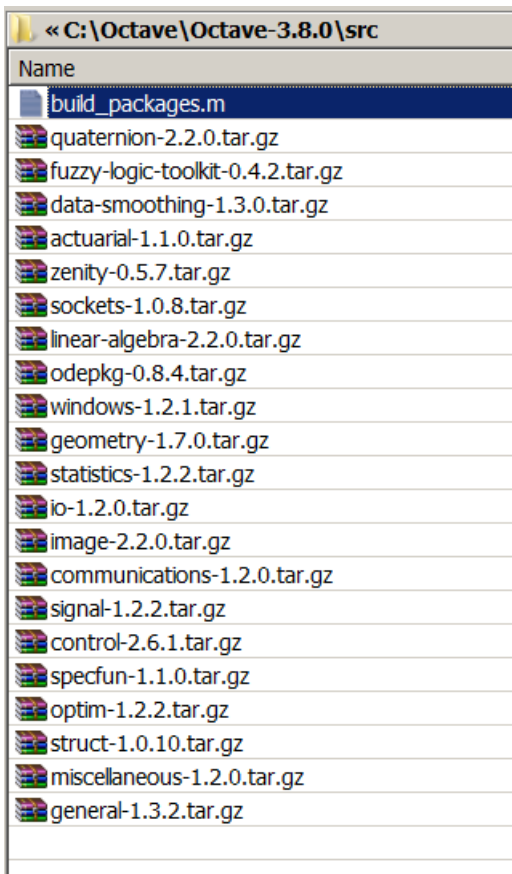
```
>> ver
-----
GNU Octave Version 3.8.0
GNU Octave License: GNU General Public License
Operating System: MINGW32_NT-6.1 Windows 7 Service Pack 1 i686
```

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`