Some quick commands from the MATLAB command line

- **`nplot [filenames]`**
  Plot one or several (if can be combined) scans

  Example:
  ```
  nplot 0123[45,46,50:53]          (Combine and plot 012345, 012346, 012350-012353)
  nplot 012345 fit gauss1          (Plot, and fit one Gaussian peak)
  nplot 012345 calc pal1+pal2-2*pal3  (Plot linear combination of polarization states)
  ```
  (For a list of available options, type `help nplot`, and see the nplot manual)

- **`plotmultiple [filenames]`**
  Plot one or several FLATCONE scans

  Note: nplot and plotmultiple use local files if found, and automatically try to download from the instrument computer otherwise.

- **`transfer [filenames]`**
  Copy one or more files from spectrometer to current local directory

  Example:
  ```
  transfer 0555[10:20]          (Copy files 055510 – 055520)
  transfer 055520:end           (Copy all files from 055520 till most recent one)
  ```

- **`printscanlist [filenames]`**
  Print a list of scans

  Example:
  ```
  printscanlist all                    (list all data files in current directory)
  printscanlist 0555[10:20] var kf     (show also the value of kf for each scan)
  ```

- **`datafile ['find'|'show'] [filename]`**
  Search datafiles on the instrument computer
  (works also from the linux command line on the instrument computer)

- **`powxbu [...]`**
  Create a list of powder reflections for a2/a4 alignment

  Example:
  ```
  powxbu                               (opens an interactive window)
  powxbu create silicon 2.662          (calculate silicon bragg peaks for ki=2.662)
  powxbu writexbu powder.xbu 2:5       (write xbu-file with reflections No. 2,3,4,5)
  ```

- **`powcal [...]`**
  Read scan data from a4 powder scans and fit a2 and a4 zeros

  Example:
  ```
  powcal                               (opens an interactive window)
  powcal readfiles 0123[45:56]         (read and fit data files 012345-012356)
  powcal fitzeros                      (determine za2, za4 from fitted data)
  ```

For all commands: **Type `help [command]` for more information and examples.**

Type **`edit options`** to change a number of options.
(You should copy the options.m file to your current own directory before editing.)

P. S., 07/2014