Command line tools:

Install

create a config file:
/etc/metadbconfig.cfg:

1. Config file for meta data database
   mysql_server = server
   mysql_db = redmine_default
   mysql_user = metauser
   mysql_password = somepass

Searching database

use, for example

```
metasearch -fsmg "redmine"
```

The options are
-f for searching files
-s for searching studies
-m for searching meta data

if the output is to long, there is the option '-g' to only display the first file of each file with the same description. This is useful e.g. if a study contains a couple of hundred DICOM files.

Listing meta information of a directory

To list the meta information for all files in a directory call

```
metadata
```

in that directory. Note there is no argument given.
Example:

```
wstefan@DIPWS027_old:/FUS4/data2/MRI_recon_algorithms/ASSET Phantom/07122012/rawP$ metadata
                        |study name                    |document description       |access
-------------------------------------------------------------------------------------------------------------------------
1    : P08192.7                 |Phantom to test ASSET recon          |256x256 ASSET 2            |public
1.1  :  keyword  : asset
1.2  :  keyword  : parallel
1.3  :  coil     : 32ch head
1.4  :  redmine_project: MRI parallel recon
2    : P08704.7                 |Phantom to test ASSET recon          |256x256 ASSET 4            |public
2.1  :  keyword  : asset
2.2  :  keyword  : parallel
2.3  :  coil     : 32ch head
2.4  :  redmine_project: MRI parallel recon
3    : P10754.7                 |Phantom to test ASSET recon          |256x256 Body coil          |public
3.1  :  keyword  : asset
3.2  :  keyword  : parallel
3.3  :  coil     : body
3.4  :  redmine_project: MRI parallel recon
4    : P09216.7                 |Phantom to test ASSET recon          |512x512 Full no ASSET      |public
4.1  :  keyword  : asset
4.2  :  keyword  : parallel
4.3  :  coil     : 32ch head
4.4  :  redmine_project: MRI parallel recon
```

```
5    : P10752.7              |Phantom to test ASSET recon        |256x256 Body coil          |public
5.1  :  keyword  : asset
5.2  :  keyword  : parallel
5.3  :  coil     : body
5.4  :  redmine_project: MRI parallel recon
6    : P09728.7              |Phantom to test ASSET recon        |256x256 full no ASSET de shimmed in x-direction|public

6.1  :  keyword  : asset
6.2  :  keyword  : parallel
6.3  :  coil     : 32ch head
6.4  :  redmine_project: MRI parallel recon
7    : P07680.7              |Phantom to test ASSET recon        |256x256 ASSET 1            |public
7.1  :  keyword  : asset
7.2  :  keyword  : parallel
7.3  :  coil     : 32ch head
7.4  :  redmine_project: MRI parallel recon
8    : P10753.7              |Phantom to test ASSET recon        |256x256 Body coil          |public
8.1  :  keyword  : asset
8.2  :  keyword  : parallel
8.3  :  coil     : body
8.4  :  redmine_project: MRI parallel recon
```

Deleting meta information

To delete meta information use

```
metadata -r number
```

where number is the number displayed in the first column of the file list above. Note if the number corresponds to a file all meta data for this file will also be deleted.

Adding a file to the database

Use:

```
metadata filename
```

or

```
metadata filenames
```

The script will ask for all information. Note: Each file needs to be associated with a study. If the study is not listed select "n" to create a new one.

Adding meta information to an existing file in the database

Use

```
metadata -m filename
```

The script will ask for all information.

Alternatively it can also be called with the "--header" option. For example

```
metadata -m --header "0x8,0x103e" *
```

adds the DICOM series description to the meta data of all files in the current directory. Note that the files have to be added to the database before this command can be called.

Scan DICOMs in all sub-directories and add with series description

Use

```
metadata -i .
```

This adds all DICOM files in all sub-directories to the data base. File descriptions are copied from the DICOM series description.

[[Database structure]]
[[Studies]]