

INSTALLATION

./nmrview/www/inc/getnmrspec.inc

```
# Requirements
[me@mach ~]$ uname -a
Linux mach 2.6.18-238.19.1.el5PAE #1 SMP Fri Jul 15 08:15:44 EDT 2011 i686 athlon i386
GNU/Linux
[me@mach ~]$ cat /etc/redhat-release
CentOS release 5.6 (Final)
[me@mach ~]$ which gnuplot
/usr/local/bin/gnuplot
[me@mach ~]$ /usr/local/bin/gnuplot -V
gnuplot 4.3 patchlevel 0
[me@mach ~]$ /usr/sbin/httpd -v
Server version: Apache/2.2.3
Server built: May 4 2011 06:51:15
[me@mach ~]$ /usr/sbin/httpd -1
Compiled in modules:
 core.c
 prefork.c
 http_core.c
 mod_so.c
[me@mach ~]$ php -v
PHP 5.1.6 (cli) (built: Nov 29 2010 16:47:37)
Copyright (c) 1997-2006 The PHP Group
Zend Engine v2.1.0, Copyright (c) 1998-2006 Zend Technologies
# uncompress the nmrview.tar.gz archive
[me@mach softs]$ pwd
/opt/softs
[me@mach softs]$ 11 ./nmrview.tar.gz
-rw-r--r-- 1 me users 20401644 Mar 26 15:44 ./nmrview.tar.gz
[me@mach softs]$ tar xvzf ./nmrview.tar.gz
./nmrview/
./nmrview/www/
./nmrview/www/tmp
./nmrview/www/js/
./nmrview/www/js/spectrum.js
./nmrview/www/js/ui.nmrview.js
./nmrview/www/js/utils.js
./nmrview/www/etc
./nmrview/www/images/
./nmrview/www/images/img_00.gif
./nmrview/www/images/loading.gif
./nmrview/www/inc/
./nmrview/www/inc/Set_Config.inc
./nmrview/www/inc/config.inc
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./nmrview/www/inc/main.inc
./nmrview/www/inc/nmrproc_conf.inc
./nmrview/www/inc/nmrproc_ui.inc
./nmrview/www/inc/nmrproc_view.inc
./nmrview/www/.htaccess
./nmrview/www/css/
./nmrview/www/css/redmond/
./nmrview/www/css/redmond/images/
./nmrview/www/css/redmond/images/ui-icons_217bc0_256x240.png
./nmrview/www/css/redmond/images/animated-overlay.gif
./nmrview/www/css/redmond/images/ui-bg_gloss-wave_55_5c9ccc_500x100.png
./nmrview/www/css/redmond/images/ui-bg_flat_0_aaaaaa_40x100.png
./nmrview/www/css/redmond/images/ui-bg_flat_55_fbec88_40x100.png
./nmrview/www/css/redmond/images/ui-bg_glass_75_d0e5f5_1x400.png
./nmrview/www/css/redmond/images/ui-bg_glass_85_dfeffc_1x400.png
./nmrview/www/css/redmond/images/ui-bg_glass_95_feflec_1x400.png
./nmrview/www/css/redmond/images/ui-bg_inset-hard_100_f5f8f9_1x100.png
./nmrview/www/css/redmond/images/ui-bg_inset-hard_100_fcfdfd_1x100.png
./nmrview/www/css/redmond/images/ui-icons_2e83ff_256x240.png
./nmrview/www/css/redmond/images/ui-icons_469bdd_256x240.png
./nmrview/www/css/redmond/images/ui-icons_6da8d5_256x240.png
./nmrview/www/css/redmond/images/ui-icons_cd0a0a_256x240.png
./nmrview/www/css/redmond/images/ui-icons_d8e7f3_256x240.png
./nmrview/www/css/redmond/images/ui-icons_f9bd01_256x240.png
./nmrview/www/css/redmond/jquery-ui.min.css
./nmrview/www/css/redmond/jquery-ui.css
./nmrview/www/css/redmond/jquery.ui.theme.css
./nmrview/www/view
./nmrview/www/log/
./nmrview/www/log/tracing/
./nmrview/www/view.php
./nmrview/etc/
./nmrview/etc/nmrproc.conf
./nmrview/bin/
./nmrview/bin/corrige_1r
./nmrview/bin/pack_1r
./nmrview/bin/bin4gp_1r
./nmrview/bin/geoloc_check
./nmrview/bin/pack_bruker
./nmrview/bin/pack_jdx
./nmrview/bin/parserBruker
./nmrview/bin/parserJCAMP
./nmrview/bin/parserJCAMP.pl
./nmrview/bin/tab2csv
./nmrview/examples/
./nmrview/examples/simple.html
./nmrview/tmp/
[me@mach projets]$ cd nmrview
[me@mach nmrview]$ 11
total 24
drwxr-xr-x 2 me users 4096 Mar 26 15:13 bin
drwxr-xr-x 2 me users 4096 Mar 26 15:16 etc
drwxr-xr-x 2 me users 4096 Mar 26 15:29 examples
drwxr-xr-x 2 me users 4096 Mar 26 15:29 tmp
drwxr-xr-x 7 me users 4096 Mar 26 15:27 www
# gives the right permissions for apache
[me@mach nmrview]$ chmod 777 tmp
[me@mach nmrview]$ chmod -R 777 ./www/log/
```

Edit the configuration files

#

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[me@mach nmrview]$ vi ./etc/nmrproc.conf
# Warning: Take care not putting spaces each side of equal sign, in order to be executed as a
script shell
# VARNAME=anything including spaces
# The root of the bulk of your installation.
# Think to create a symbolic link under the HTML document directory of your web server which
points to the www directory of nmrview.
ROOTDIR=/opt/softs/nmrview
# The root of the datasets
DATASETS=/opt/data/nmrview
# The root of the URL
URLROOT=/nmrview
# default NMR spectrum parameters
SOLVENT_MIN=4.7
SOLVENT_MAX=4.97
PPM_MIN=-0.05
PPM_MAX=11
# Create a symbolic link under the HTML document directory of your web server
# which points to the www directory of nmrview.
[me@mach nmrview]$ cd /var/www/html/
[me@mach nmrview]$ sudo ln -s /opt/softs/nmrview/www nmrview
How to process with an ISA-TAB archive?
# unzip the isatab archive in a temporary directory
[me@mach ~]$ unzip HUGO07.isa -d /tmp/HUGO07/
Archive: HUGO07.isa
extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13091.zip
extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13092.zip
extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13101.zip
extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13102.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13111.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13112.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13121.zip
extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13122.zip
```

extracting: /tmp/HUG007/BB_BBI_08M07_melon07_13131.zip
extracting: /tmp/HUG007/BB_BBI_08M07_melon07_13132.zip
extracting: /tmp/HUG007/BB_BBI_08M07_melon07_13141.zip

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extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13151.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13152.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13161.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13162.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13171.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13172.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13181.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13182.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13191.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13192.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13201.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13202.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13331.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13332.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13342.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13351.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13352.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13361.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13362.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13371.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13372.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13381.zip
 extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13382.zip
  inflating: /tmp/HUGO07/a_hugo_2007_metabolite profiling_NMR spectroscopy.txt
  inflating: /tmp/HUGO07/i_Investigation.txt
  inflating: /tmp/HUGO07/s_Hugo_2007.txt
# Convert isa_tab metadata files into a CSV file
[me@mach ~]$ cd /opt/softs/nmrview
[me@mach nmrview]$ ./bin/tab2csv -d /tmp/HUG007/ -o samples.csv -v
i\_Investigation.txt ... OK
s_Hugo_2007.txt ... OK
a_hugo_2007_metabolite profiling_NMR spectroscopy.txt ... OK
Extract columns from Study Assay File : 1,28 ... OK
Factors: ;Harvest date
Extract columns from Study File : 9,10 ... OK
Merging ...OK
# Create an entry under the root of the datasets (see ./etc/nmrproc.conf)
[me@mach nmrview]$ mkdir /opt/data/nmrview/HUGO07
# Create the "pack" file: 'pack_bruker' script is for bruker raw files
[me@mach nmrview]$ time ./bin/pack_bruker -i /tmp/HUG007/samples.csv \
                                        -o /opt/data/nmrview/HUGO07/ -h
BB_BBI_08M07_melon07_13091 (1/36) ...
NAME = 07.HU1.1.1309.1
_____
BB_BBI_08M07_melon07_13092 (2/36) ...
NAME = 07.HU1.1.1309.2
```

extracting: /tmp/HUGO07/BB_BBI_08M07_melon07_13142.zip

```
OK
_____
BB_BBI_08M07_melon07_13101 (3/36) ...
NAME = 07.HU1.2.1310.1
BB_BBI_08M07_melon07_13102 (4/36) ...
NAME = 07.HU1.2.1310.2
BB_BBI_08M07_melon07_13372 (34/36) ...
NAME = 07.HU3.5.1337.2
OK
BB_BBI_08M07_melon07_13381 (35/36) ...
NAME = 07.HU3.6.1338.1
BB_BBI_08M07_melon07_13382 (36/36) ...
NAME = 07.HU3.6.1338.2
Pack ...OK
real 0m39.698s
user 0m13.305s
sys 0m9.039s
# Check if all files have been created
[me@mach nmrview]$ 11 ./data/HUGO07/
total 9756
-rw-r--r-- 1 me users 28 Mar 27 17:57 factors
11 Mar 27 17:57 rawfile -> samples.csv
-rw-r--r-- 1 me users 9961496 Mar 27 17:58 specs.pack
# Create a simple html page using the example
[me@mach nmrview]$ cp examples/simple.html ./www/
[me@mach nmrview]$ vi ./www/simple.html
change the line 13:
      url:'/nmrview/view', dataset: 'exemple', colorby: 0, width: 'auto'
replace 'example' by 'HUGO07':
     url:'/nmrview/view', dataset: 'HUGO7', colorby: 0, width: 'auto'
# In your web browser, open the URL: http:<your domain>/nmrview/simple.html
```