



Installation notes v1.0

Download MRIToolkit

```
src — -bash — 113x24
~ — ssh alberto@providi ...  ...N/Work/spm12/src — -bash  .../Work/spm12/src — -bash  .../Work/spm12/src — -bash  +
Last login: Sun Nov 24 17:47:12 on ttys003
The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
MacBook-Pro-di-Alberto:src albd1$ git clone https://github.com/delucaal/MRIToolkit.git
```

or

Branch: master ▾ New pull request

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delucaal Merge pull request #1 from delucaal/ExploreDTIInterface_test ...

DW_basic	Bugfixes towards EDTI integration
ExploreDTIInterface	Bugfixes towards EDTI integration
ImageRegistrations	Bugfixes towards EDTI integration
LesionEditor	Bugfixes towards EDTI integration

Clone with HTTPS ⓘ Use SSH

Use Git or checkout with SVN using the web URL.

`https://github.com/delucaal/MRIToolkit` 📄

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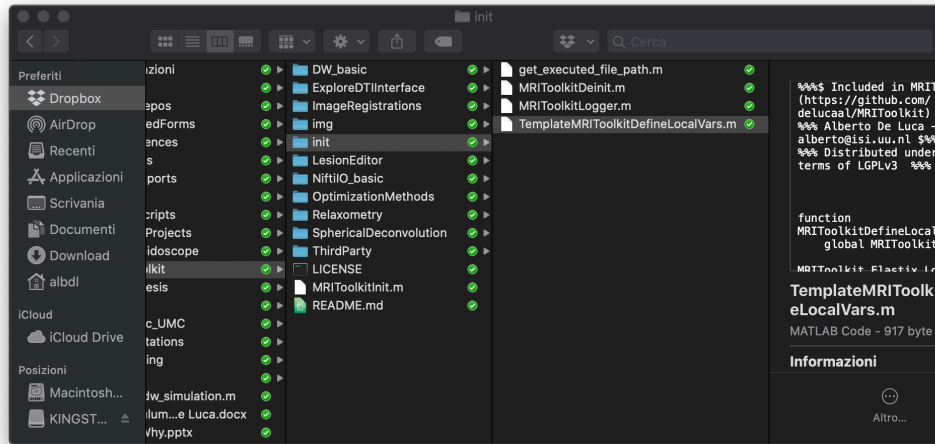
Download third-party dependencies

- **Elastix** (<http://elastix.isi.uu.nl>) : use your own executables, or download them from <https://surfdrive.surf.nl/files/index.php/s/v8YMK8M49rCMB2q>
 - Download **JSONio** from <https://github.com/gllmflndn/JSONio.git>
- Download and compile **dcm2niix** (only needed if you are going to use DICOM files) from <https://github.com/rordenlab/dcm2niix>
 - Download **SPM12** from <https://www.fil.ion.ucl.ac.uk/spm/software/spm12/>
- The NODDI toolbox – add it to your MATLAB path if you are planning to use the mFOD method (<http://mig.cs.ucl.ac.uk/index.php?n=Tutorial.NODDI matlab>)



Installation notes v1.0

Customize the config file



- Copy TemplateMRIToolkitDefineLocalVars.m (in init) somewhere in your MATLAB path, and rename it MRIToolkitDefineLocalVars.m.
- Edit its content appropriately. In my case (spm_path is not needed yet, but will be soon):

```
function MRIToolkitDefineLocalVars()  
    global MRIToolkit;  
    MRIToolkit.Elastix.Location = '/Users/albd/Documents/ExploreDTI_Matlab/Source/MD_cor_E/macOSX64/';  
    elastix_cmd = dir(fullfile(MRIToolkit.Elastix.Location, 'elastix*'));  
    MRIToolkit.Elastix.ElastixCMD = fullfile(MRIToolkit.Elastix.Location, elastix_cmd.name);  
    transformix_cmd = dir(fullfile(MRIToolkit.Elastix.Location, 'transformix*'));  
    MRIToolkit.Elastix.TransformixCMD = fullfile(MRIToolkit.Elastix.Location, transformix_cmd.name);  
    MRIToolkit.dcm2niix = '/Applications/dcm2niix-master/bin/dcm2niix';  
    MRIToolkit.JSONio = '/Users/albd/Documents/MATLAB/JSONio';  
    MRIToolkit.spm_path = '';  
end
```

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Import MRIToolkit in MATLAB



- Add only the root folder of MRIToolkit to the matlab path
 - Type "MRIToolkitInit"
- Check out the Demos folder for usage examples!

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Important notes



- The file naming convention is to always indicate Niftis as .nii, even when they are actually compressed in .nii.gz! The code takes care of that but expects only .nii as arguments in function calls!
- Not everything has been checked yet - expect many bug fixes and new releases in the next time.