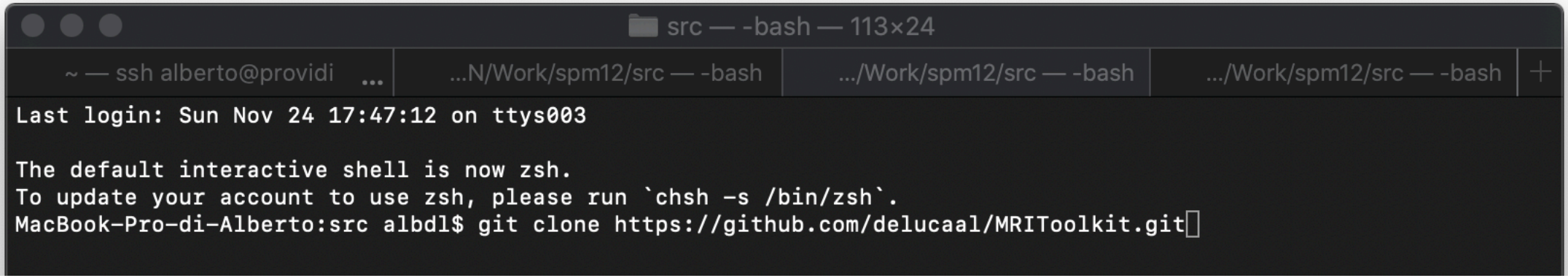
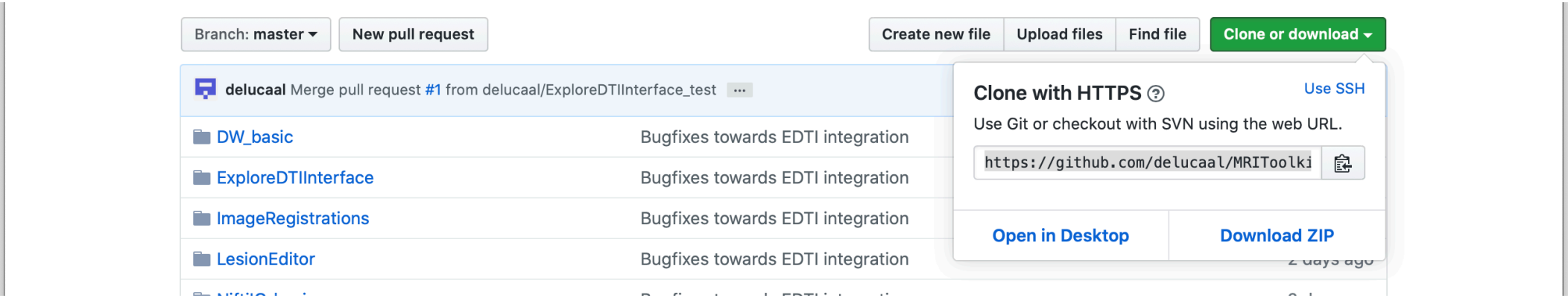
Installation notes v1.0

Download MRIToolkit



or



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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.NODDImatlab)

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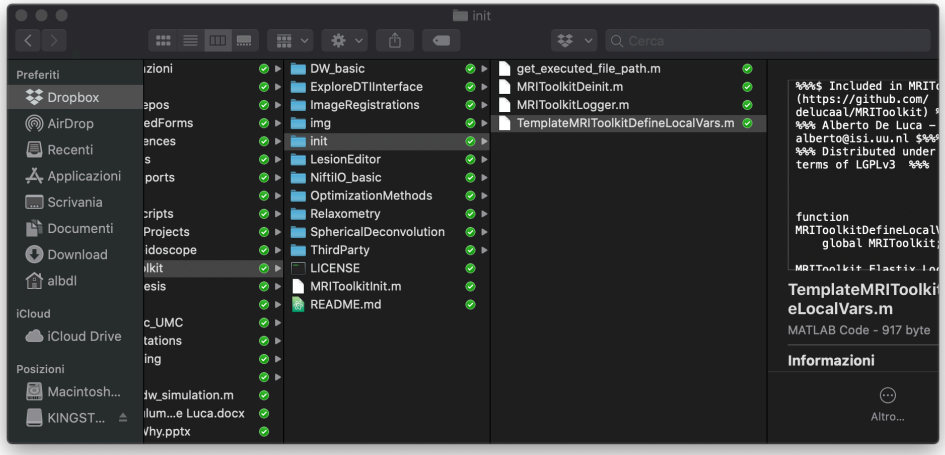
Customize the config file



- 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/albdl/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/albdl/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.