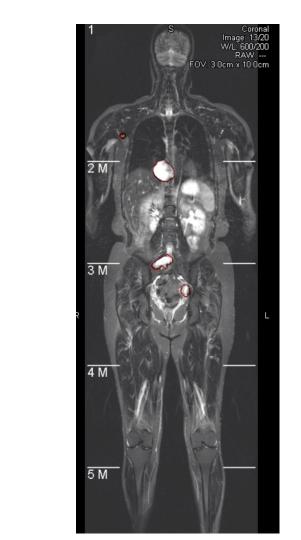
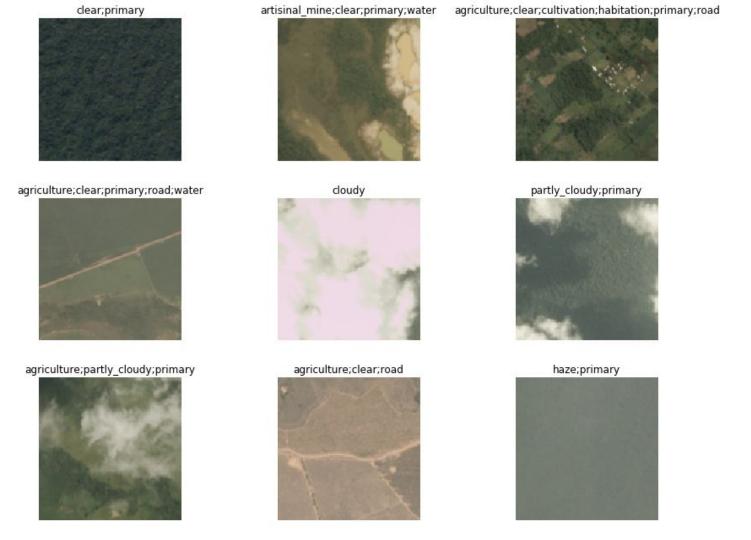
Image Track



Subject ↓ F	Site ↓ F	Type ↓ F	Volume_cc ↓ -	Comment ↓F	individualID ↓ _
10	3	0	15.11		MGH_WBMRI_patient_010
10	1	0	24.02		MGH_WBMRI_patient_010
10	1	0	31.64		MGH_WBMRI_patient_010
10	8	0	17.46		MGH_WBMRI_patient_010
10	1	0	132.69	> 5CM	MGH_WBMRI_patient_010
10	2	0	9.45		MGH_WBMRI_patient_010
10	2	0	46.97	> 5CM	MGH_WBMRI_patient_010
10	3	0	36.38		MGH_WBMRI_patient_010
10	3	0	2.25		MGH_WBMRI_patient_010
10	7	0	48.22	> 5CM	MGH_WBMRI_patient_010
19	0	1	35.6		MGH_WBMRI_patient_019
19	2	0	14.5		MGH_WBMRI_patient_019
19	3	0	2.34		MGH_WBMRI_patient_019



What are the questions NF doctors want help on?

Volume, Volume, and Volume

3D-3D object segmentation needs 3D models

Converting stacks of 2D images into NII format

```
!dcm2niix /home/jupyter/tutorials/image/WBMRI023/DICOM/
Chris Rorden's dcm2niiX version v1.0.20190902 GCC7.3.0 (64-bit Linux)
Found 40 DICOM file(s)
Warning: Siemens MoCo? Bogus slice timing (range -1..-1, TR=4190 seconds)
Convert 20 DICOM as /home/jupyter/tutorials/image/WBMRI023/DICOM/DICOM_SPINE_20070720114638_16 (322x1105x20x1)
Warning: Siemens MoCo? Bogus slice timing (range -1..-1, TR=454 seconds)
Convert 20 DICOM as /home/jupyter/tutorials/image/WBMRI023/DICOM/DICOM_SPINE_20070720114638_22 (322x1102x20x1)
Conversion required 0.081513 seconds (0.081448 for core code).
```

Get rid of missing masks/scans

```
print(len(img_list))
[42]:
      48
      print(len(label_list))
      51
[16]: def Diff(li1, li2):
          return (list(set(li1) - set(li2)))
      print(Diff(label_list, img_list))
      ['036.nii', '032.nii', '052.nii']
[17]: for element in Diff(label_list, img_list):
          cleaned_label_list=label_list.remove(element)
```

Matching size of scans and masks

```
import SimpleITK as sitk
for element in img_list[1:]:
    file=os.path.join('/home/jupyter/tutorials/image/nii/b',element)
    nda = sitk.GetArrayFromImage(sitk.ReadImage(file))
    print(sitk.ReadImage(file).GetSize())
    print(nda.shape)
    nda = nda[1:18,0:894,1:322]
    img = sitk.GetImageFromArray(nda)
    writer = sitk.ImageFileWriter()
    writer.SetFileName(file)
    writer.Execute(img)
```