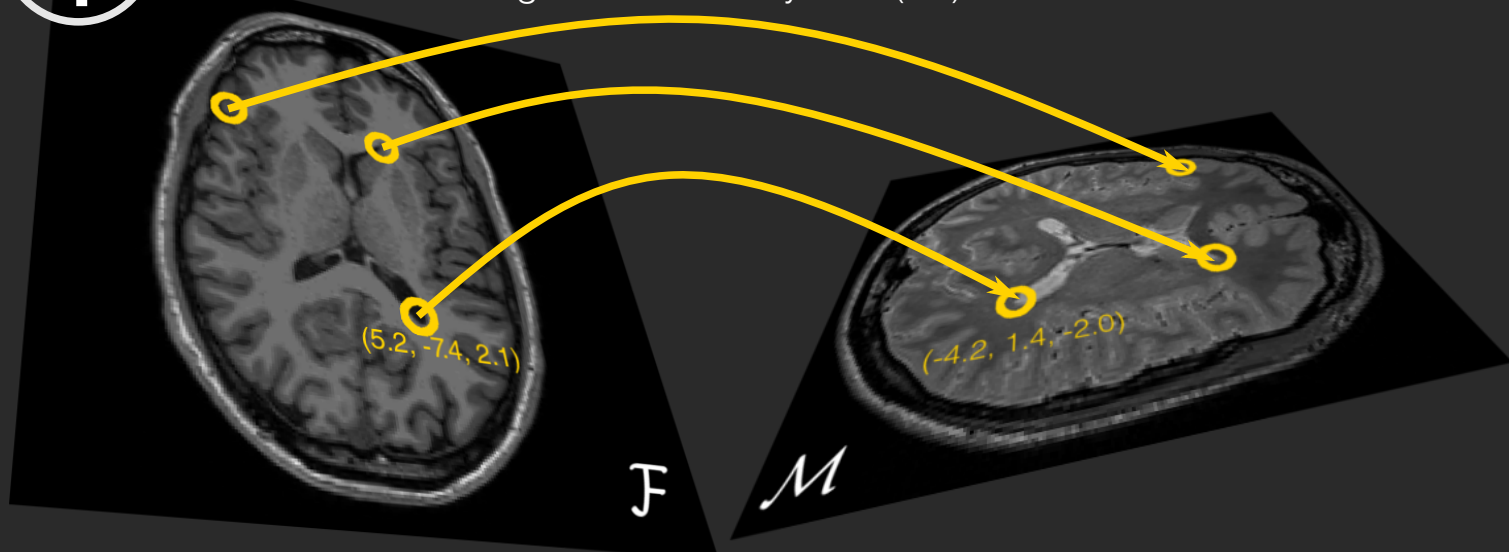


1

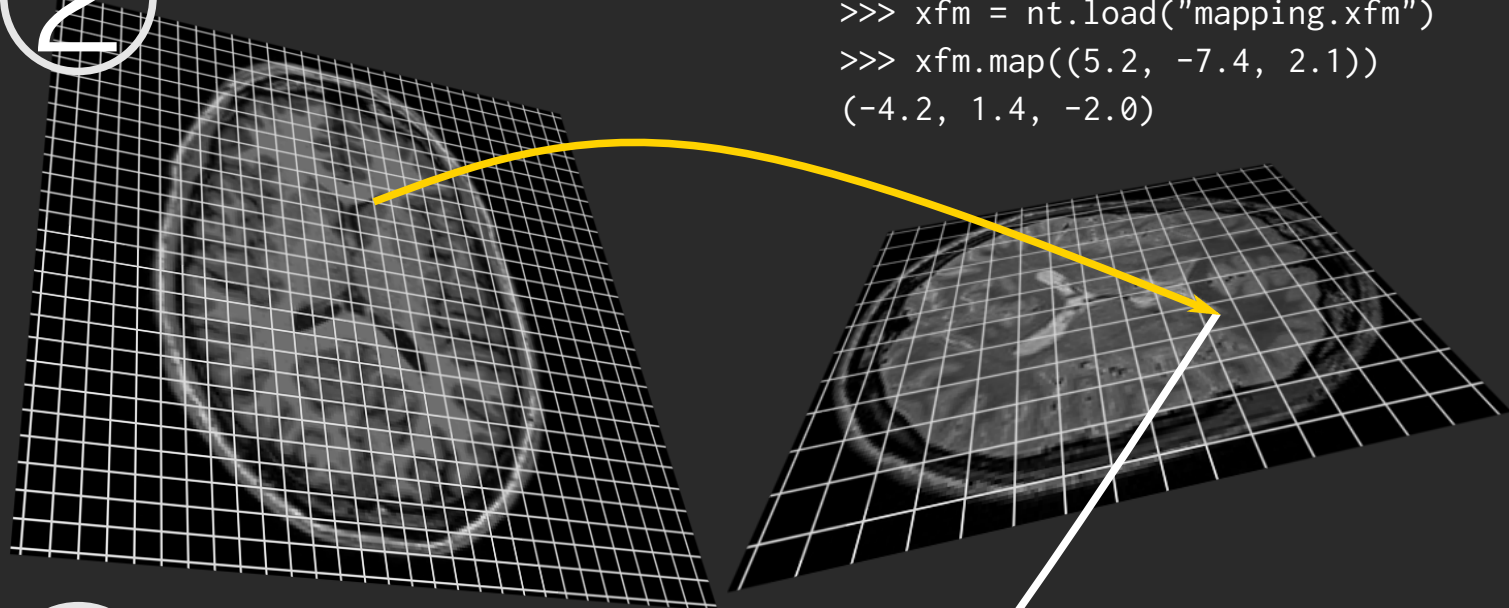
Find the spatial transform: Estimate the function that, given the coordinates of features in the reference image (\mathcal{F}), returns the location of the corresponding features in the moving's coordinate system (\mathcal{M}).



2

Map the reference image's grid:

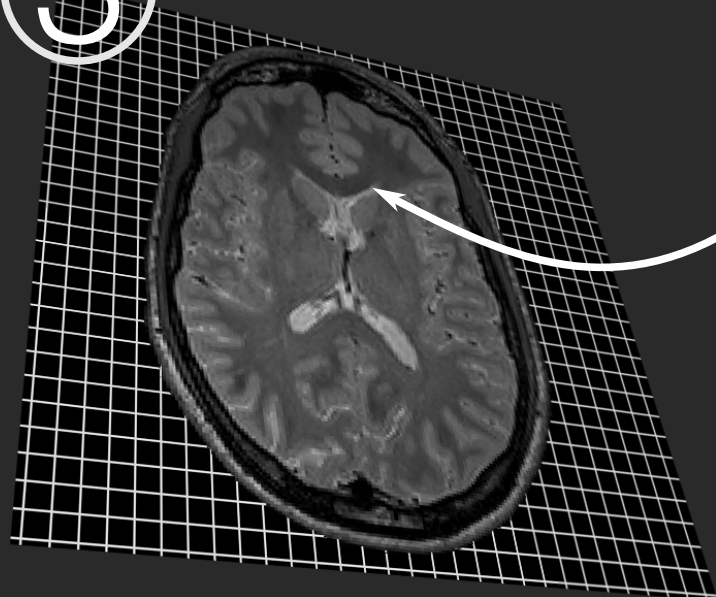
```
>>> import nitransforms as nt
>>> xfm = nt.load("mapping.xfm")
>>> xfm.map((5.2, -7.4, 2.1))
(-4.2, 1.4, -2.0)
```



3

Interpolation or resampling:

```
>>> import nitransforms as nt
>>> xfm = nt.load("mapping.xfm",
...               reference="T1w.nii.gz")
>>> nii = xfm.apply("T2w.nii.gz", order=3)
>>> nii.to_filename(
...     "T2w-alignedto-T1w.nii.gz")
```



Reference image ("fixed")

"Moving" image