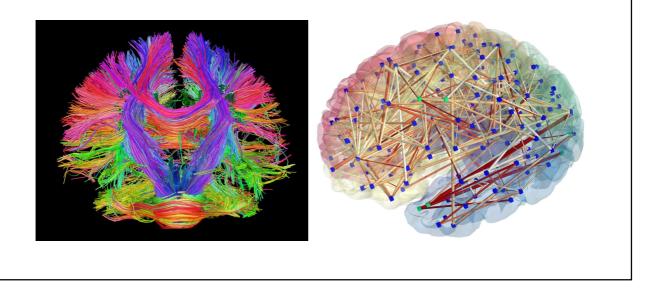
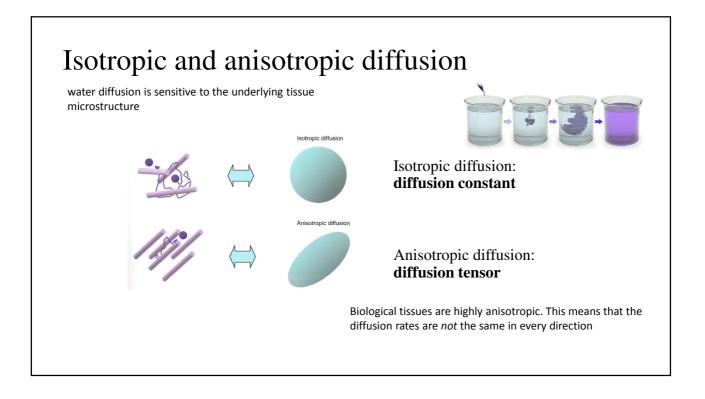
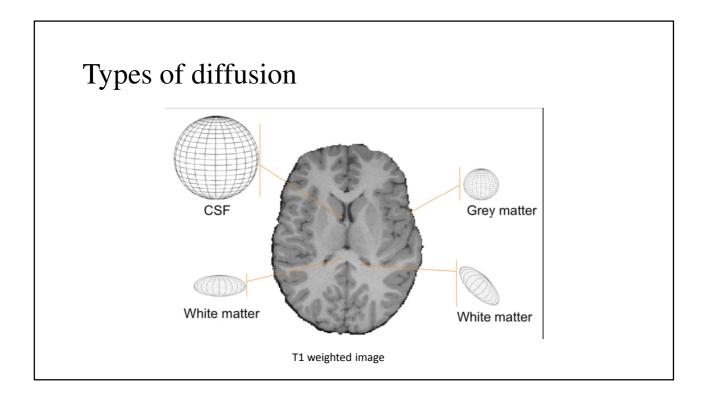
Advanced MR techniques DTI

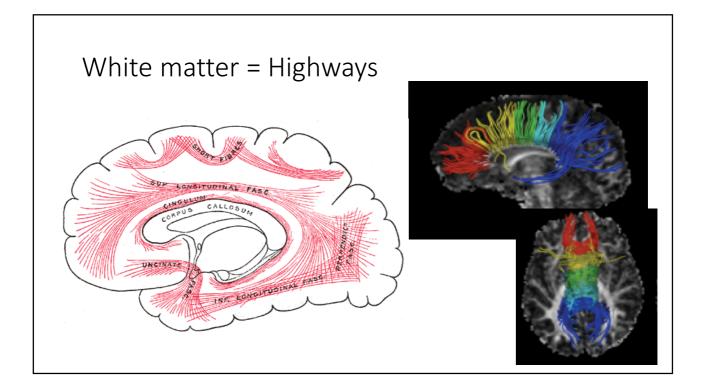
Turku PET Centre 4.6.2018 Virva Saunavaara, PhD, medical physicist

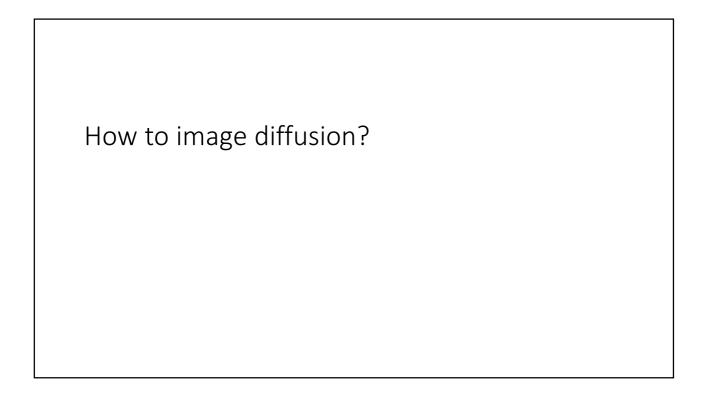
Why image diffusion?

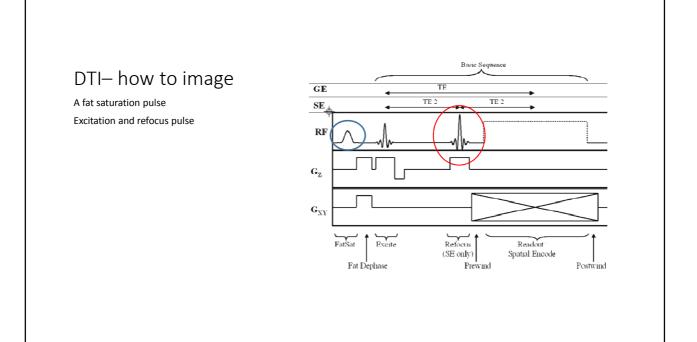


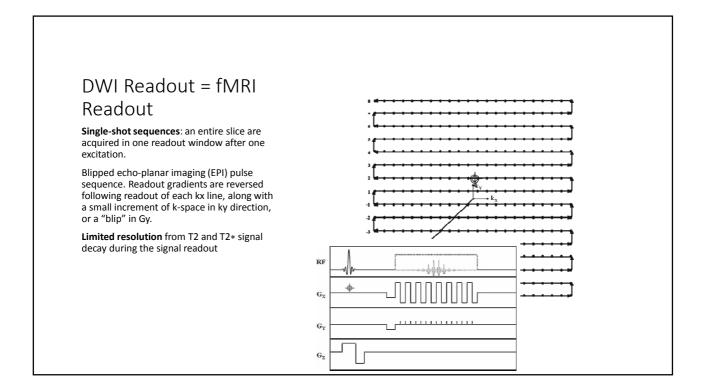


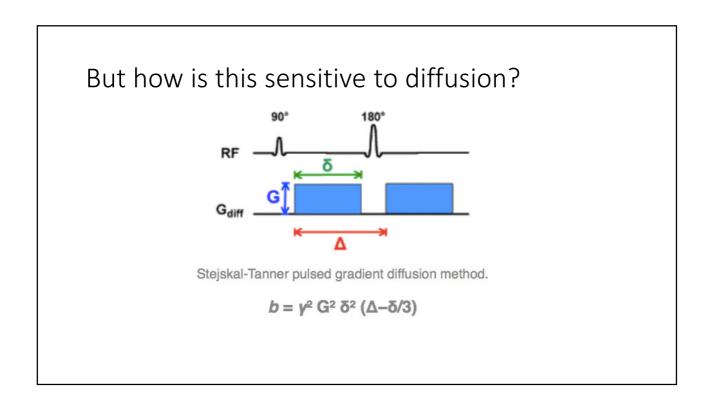


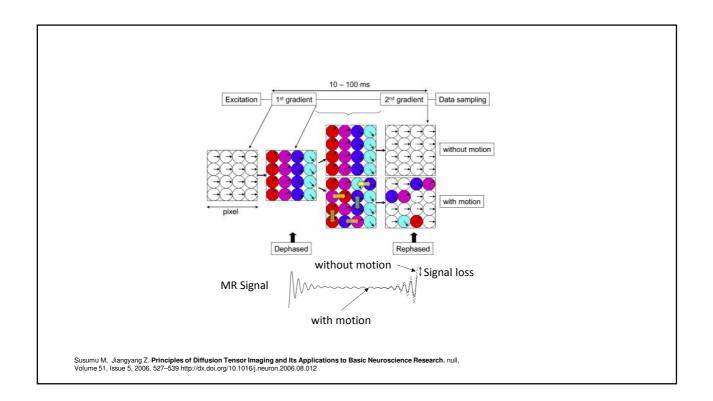


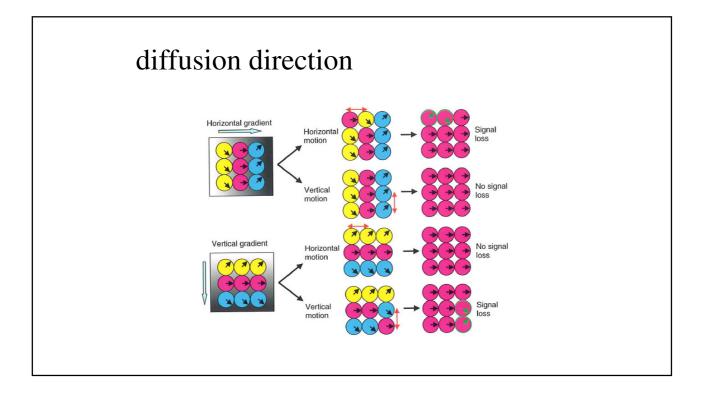


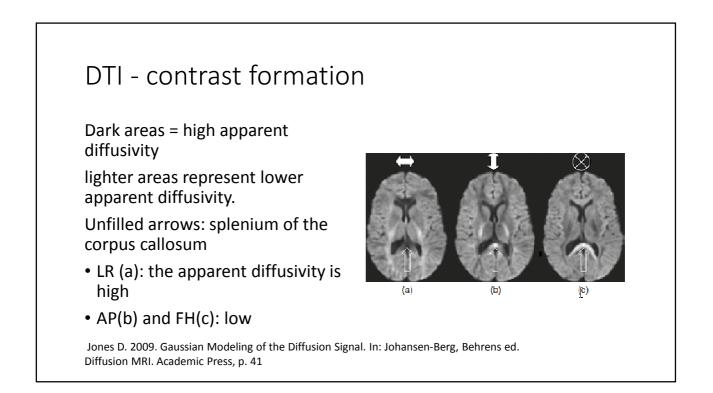


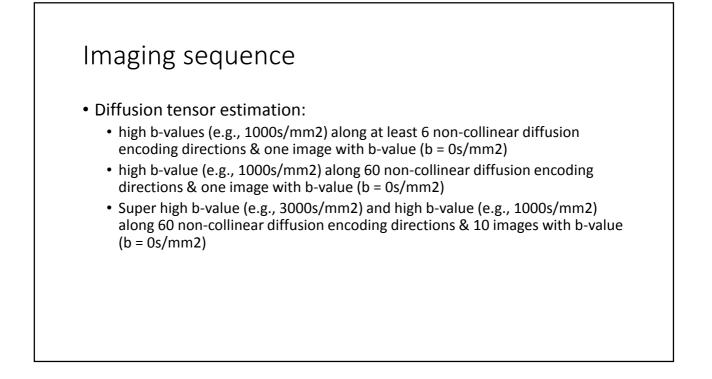


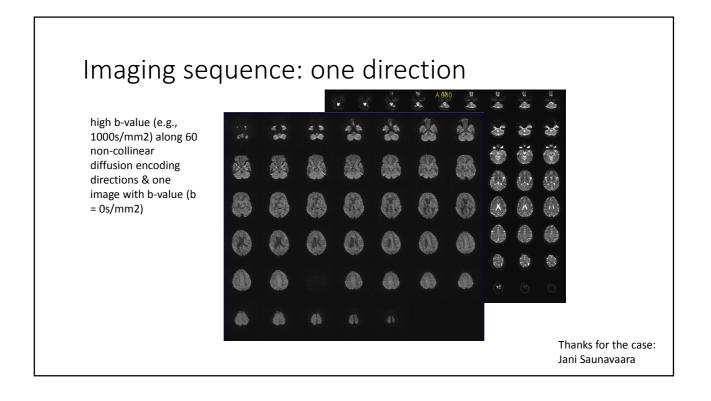


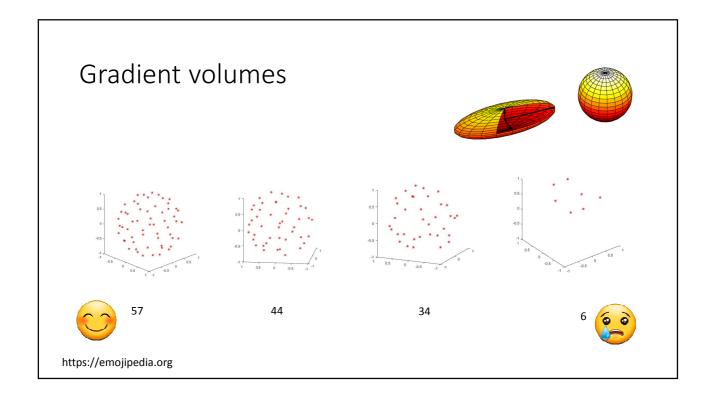


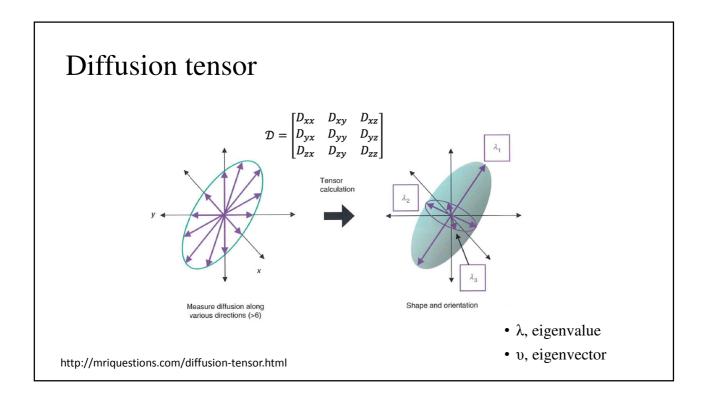


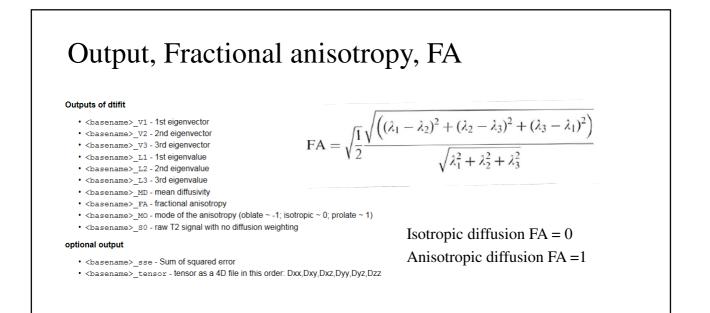


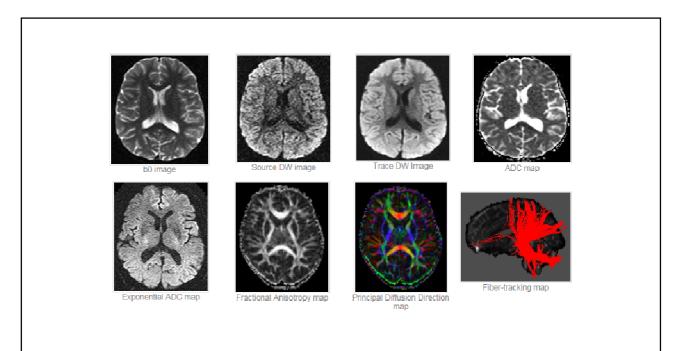




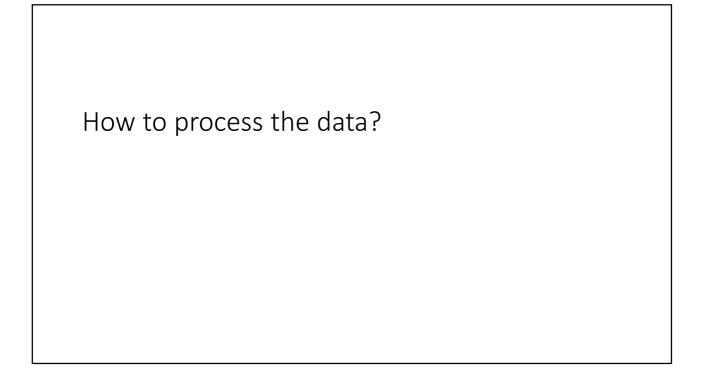


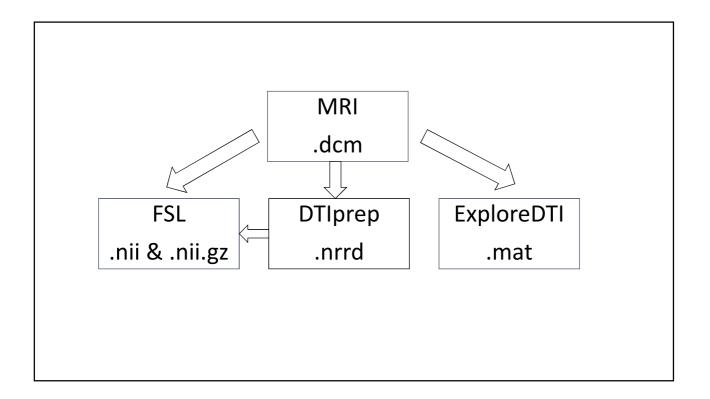


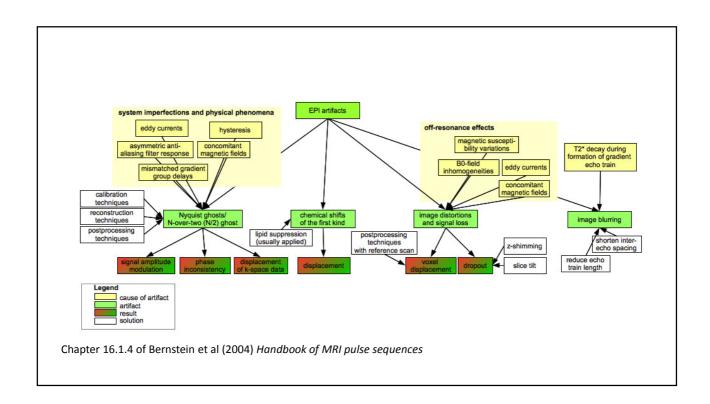


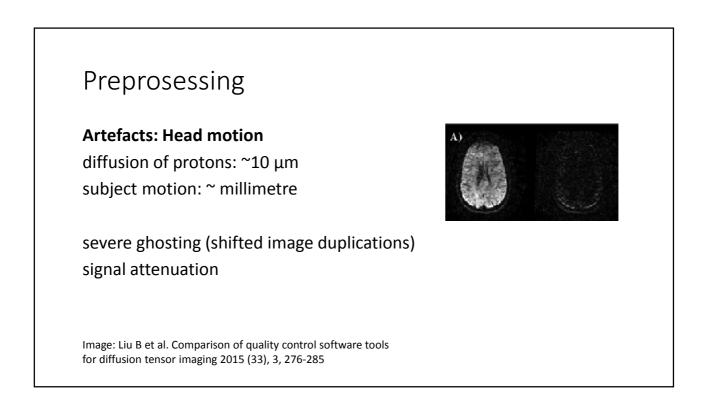


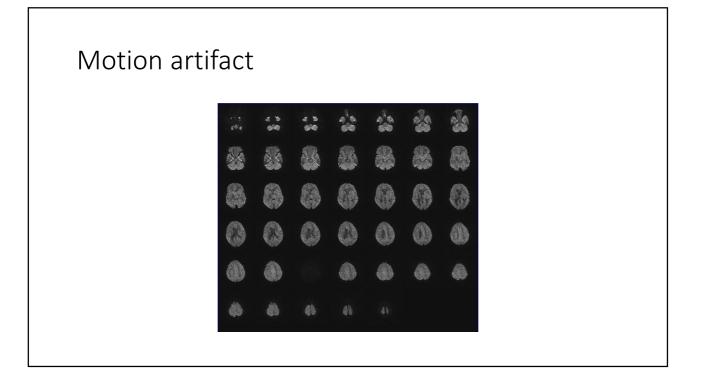
http://mriquestions.com/making-a-dw-image.html

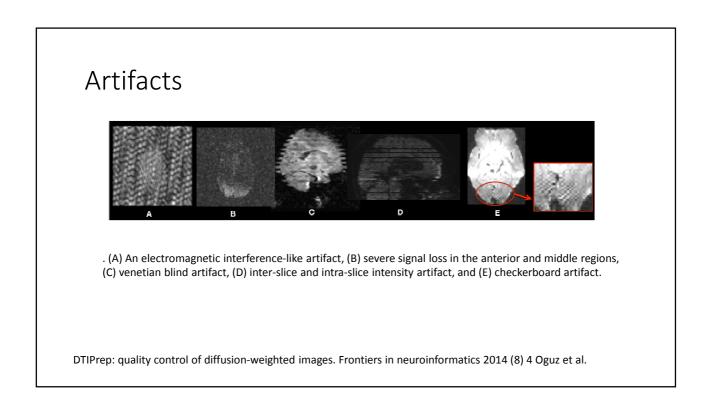








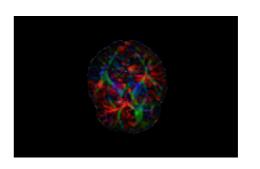




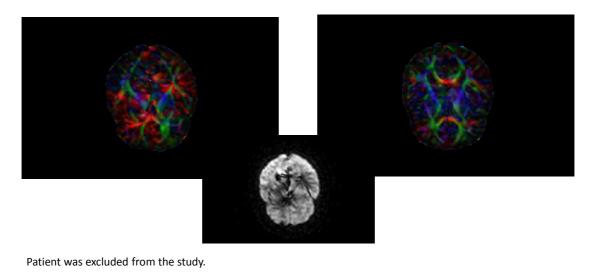
DTI preprosessing

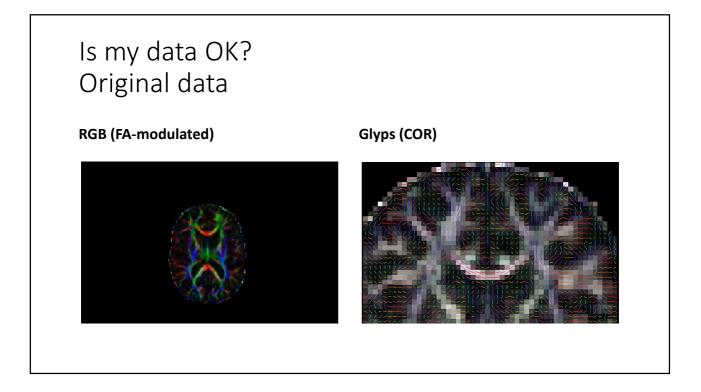
Exclude:

- Limit the analysis to regions without artifacts
- single slice
- affected subject
- gradient volume



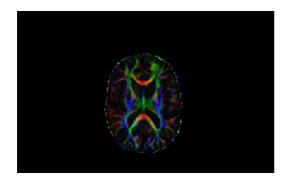
DTI preprosessing



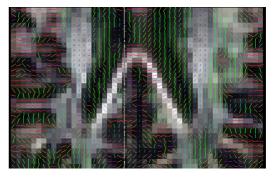


ls my data OK? Original data

RGB (FA-modulated)

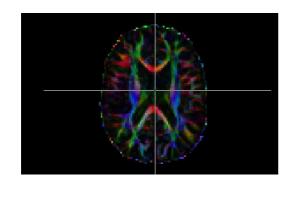


Glyps (axial slice)



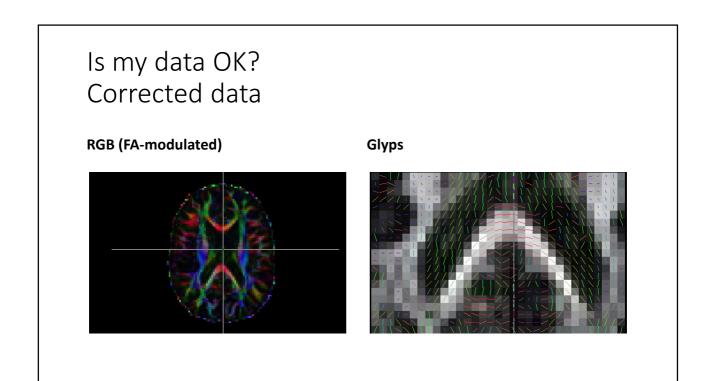
Is my data OK? Corrected data

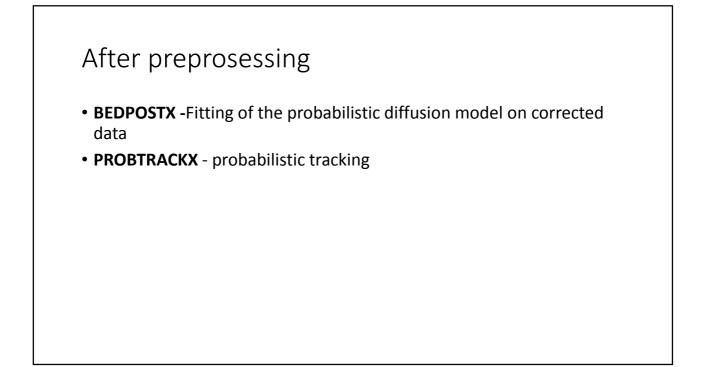
RGB (FA-modulated)

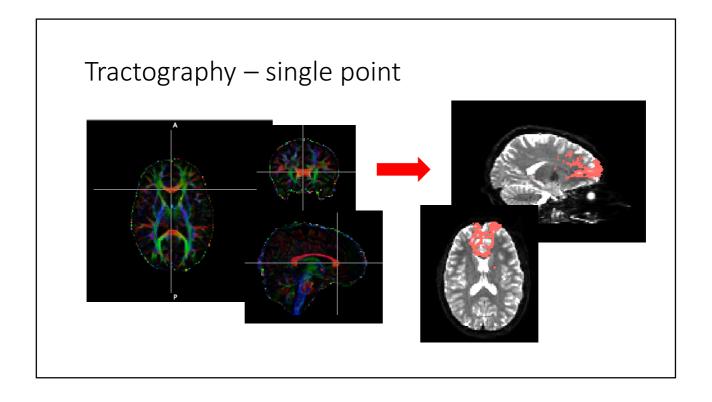


Glyps (COR)









<image>