

Diffusion weighted MRI (DWI)



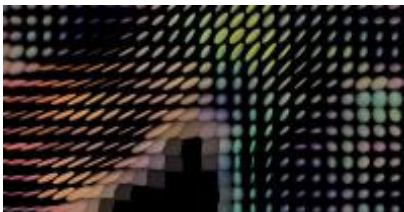
KP Computergraphik und Visualisierung III Sommersemester 2020

Team Project VR Tractography (C++, OpenGL, OpenVR)

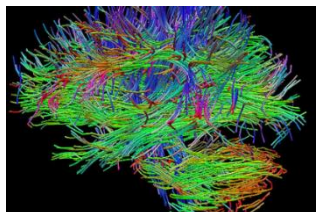
Goal: understand human brain

Tasks/Groups:

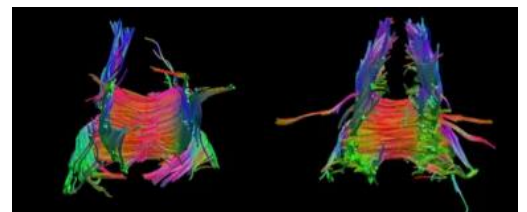
- DTI construction
- **Segmentation** of brain regions
- **Fiber bundle tracking**: seeding, integration
- **Real-time visualization**: color mapping, data transfer, tube geometry and lighting in shader program
- **VR interaction**: region based filtering of fiber bundles, interactive comparison of multiple data sets



Diffusion tensor image (DTI)



fiber bundle tracks



comparison of different patients



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