An interactive, multi-platform tractography visualization application

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Abstract: making developments in modern science accessible to the public at large is difficult, especially in the case of large neuroimaging datasets. The large number of mobile devices currently in use (>95% of the adult population currently owns some type of smart phone) 3d visualization provides a direct link to the public, however, to date there have been few attempts to bridge the gap between gpu intensive 3d visualization of large medical datasets and the smartphone. Enable quick and easy sharing of open access tractography datasets will put more eyes from diverse sources on recent developments in neuroimaging, increasing both the reach of the research, and feeding back to inspire new developments.

Features:

Nifti and .trk format support from phone or web

Dynamic interactive streamline filtering

Region of interest filtering using cortical ROIs and FMRI networks

Vascular surfaces (