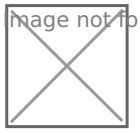
Fiber Viewer

NORA includes fiberviewer based on webGL and Babylon.js. The main features are:

- Supports TCK (mrtrix) and TRK (TrackVis) formats
- Fiber Manipulations
  - Interactive selection by variable sized spheres
  - Interactive deletion by variable sized sphere
  - Selection and Deletion of tracts by ROIs
  - Selection by sphere sets, (annotation type: poinset)
  - Selection by waypoints (annotation type: freeline)
  - Selection by DBS electrodes
- Rendering
  - Vistmaps (fiber densities)
  - Terminalmaps
  - LIveupdate of visit/terminal maps
- Tracking
  - a simplistic fibertracking algorithm based on tensor/orientationl fields is provided

Starting the fiber viewer

Choose an appropriate background image (like a T1w) and simply drop a tck or trk file into a viewport and the viewer will automatically switch to 3D mode a displays the fibers. An additional viewbar appears, which is associated with the loaded tracts. The viewbars allows you manipulate the streamlines, select subsets, etc. Here a short overview:



Fiber Selection

- **Manually:**
  Hold **Shift key** pressed, a yellow sphere appears when hovering with mouse over the tracking, click to select all fibers going through the
- **By ROI:**
- **By Annotation:**

Cropping Selections and iterative selections.

Some slides explaining NORA' s fiber viewer

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