Visualization of EEG Data

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Short-Term Goals

• Visualize cortical surfaces in conjunction with source-space and scalp-space EEG waveforms.

• Visualization to focus on interactivity and exploration of multi-modal datasets.
Collaborative Progress

- C++, OpenGL, Qt solution provides interactive visualization.
- Selectable visualization components reduces clutter.
- Interactive displays update computational variables in real-time.
Near-Term Goals

• Acquire and add source-space visualization capabilities to existing system.
  
• Basic framework in place - need data for testing
  
• Acquire and add fiber tract data and connected-component visualization to existing system.
  
• Just received data - need to extend system to visualize fibers and connected cortical regions.
Long-Term Goals

• Integrate tensor visualization for raw DTI data and interactive computation of fiber tracts.

• Continue to integrate feedback from domain scientists into visualization tool.

• Integrate spectral analysis tools into visualization system.