

Molecular Visualization with UCSF Chimera: Question & Answer Session

- New features in Chimera 1.7:
 - Improved graphics
 - performance increase for newer video cards
 - higher default frame rate for smoother motions
 - glossy lighting
 - interactive shadows
 - New tools
 - PDB2PQR - assignment of atomic partial charges and radii
 - APBS - continuum electrostatics calculation
 - AutoDock Vina - molecular docking
 - Model/Refine Loops - interface to Modeller
 - Notepad - save user-entered descriptive text with sessions
 - New image/movie features
 - export in HTML/WebGL format for interactive web viewing
 - Animation tool for creating simple movies
- Future directions:
 - Chimera 2.0 - web- and desktop-based application
 - Web-based application using modern web standards (HTML5, JavaScript, WebGL)
 - Desktop-based application using modern cross-platform toolkits (Qt, OpenGL)
 - Performance from parallelization (threads, GPU)
 - Integration with web services (databases, computation, storage)
 - interface to cloud computing infrastructure such as Amazon Web Services
 - Access to extensive computational resources
 - Minimize cost for hardware setup and maintenance
 - Pre-made system images for common tasks (molecular dynamics, virtual screening)
- What is a feature you would like to see in Chimera?
 - Tell us now
 - Mail suggestions to chimera-users@cgl.ucsf.edu later