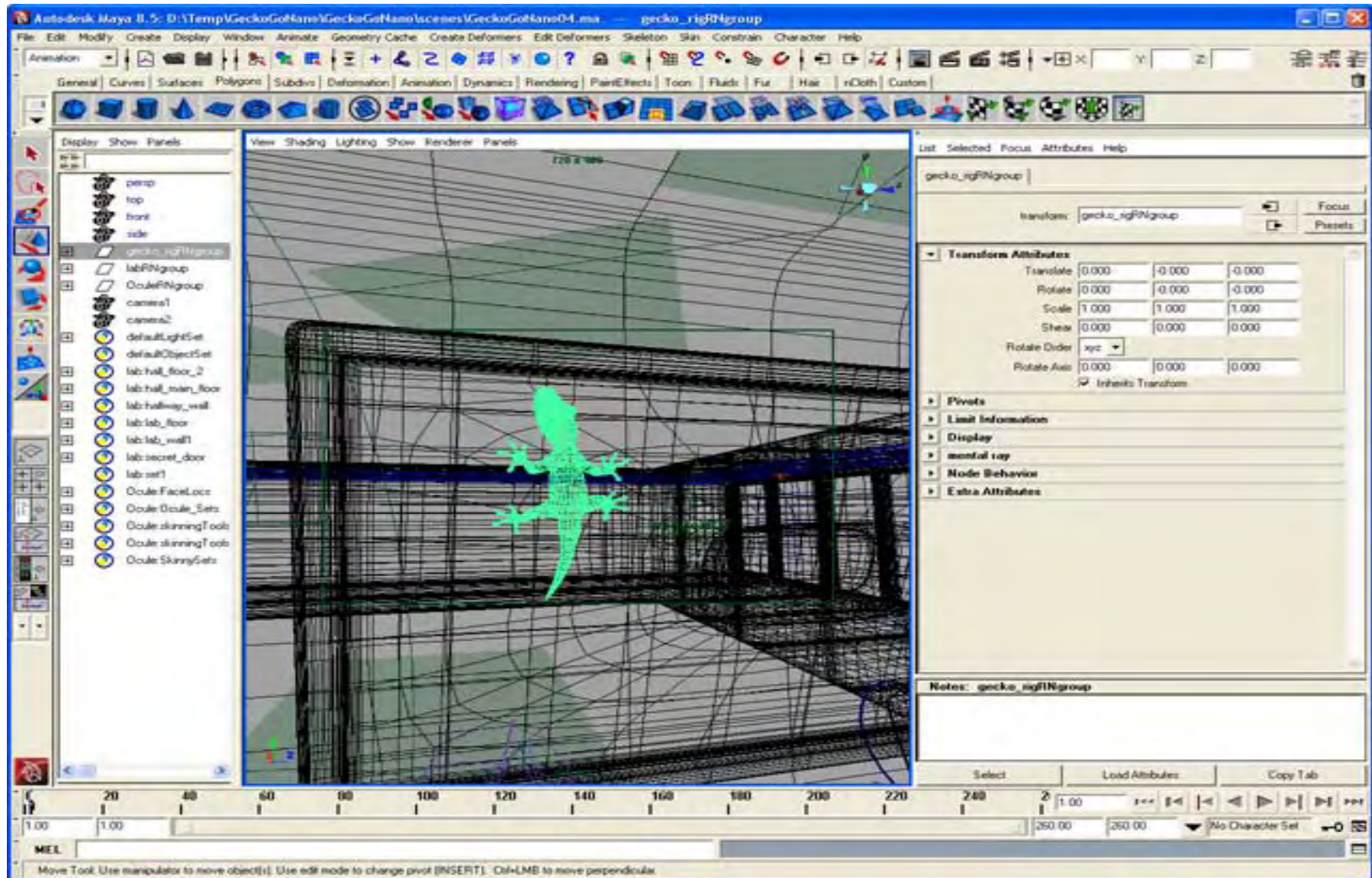


Life Beyond The Browser: TeraDRE

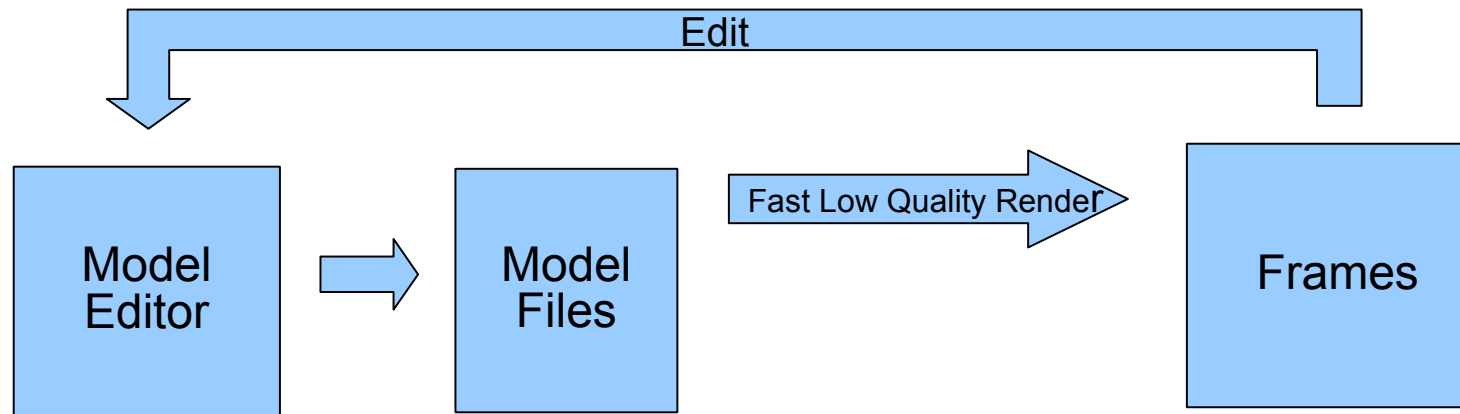
David Braun, RCAC
Carol Song, RCAC
Laura Arns, Envision Center

GCE07

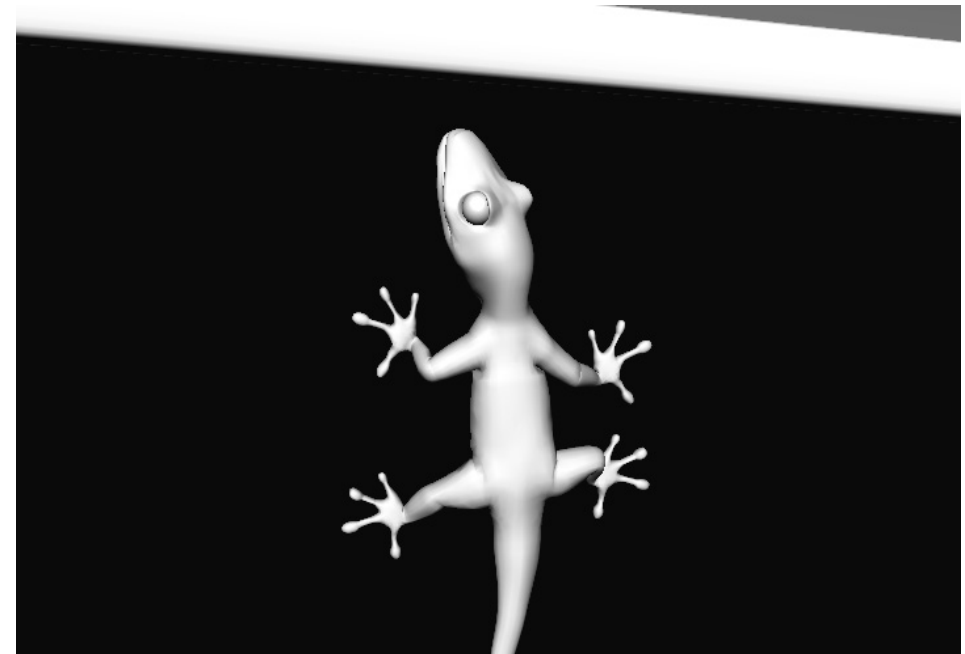
Animator's Environment



What is the TeraDRE?



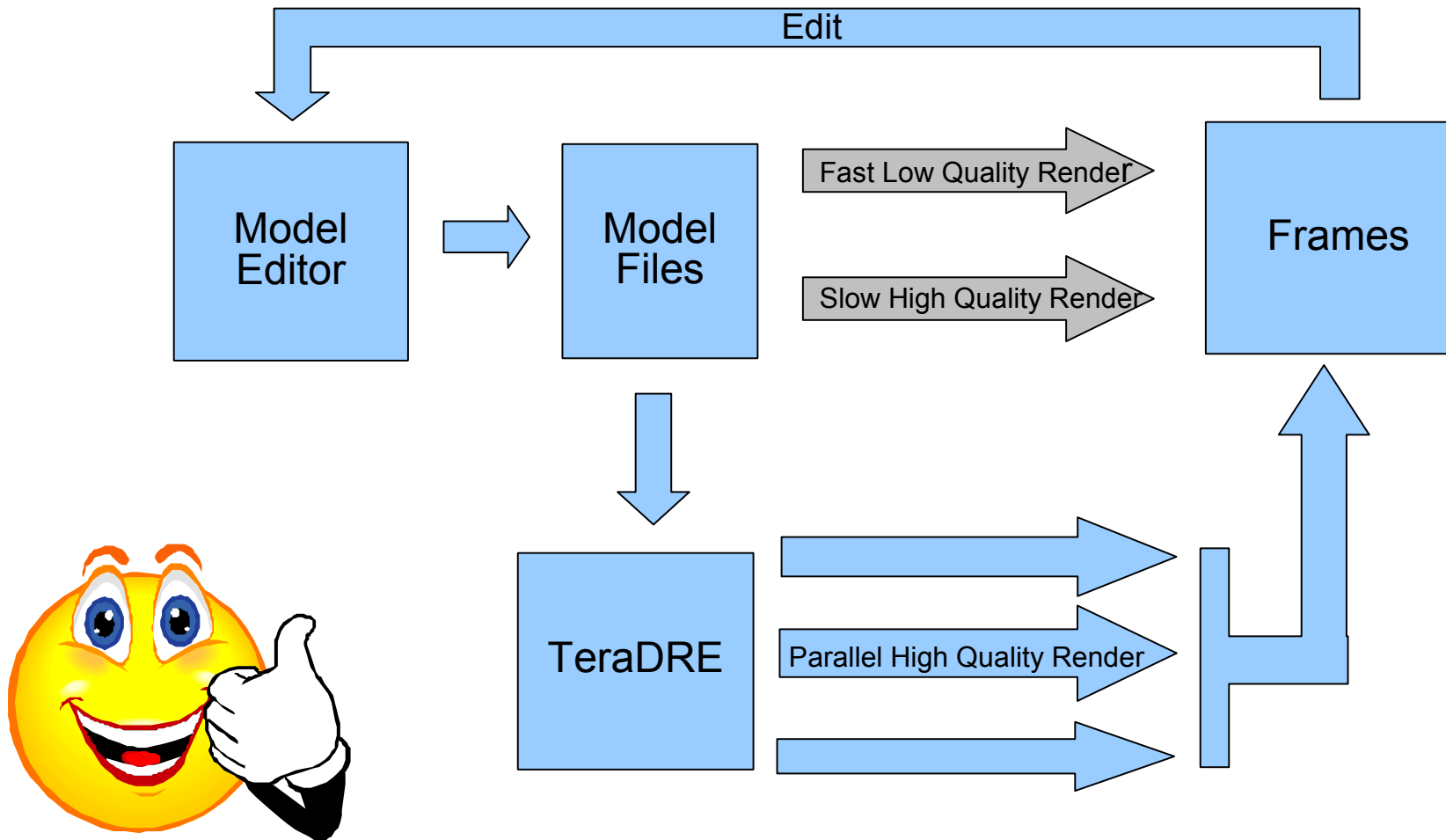
It will look better with these effects.



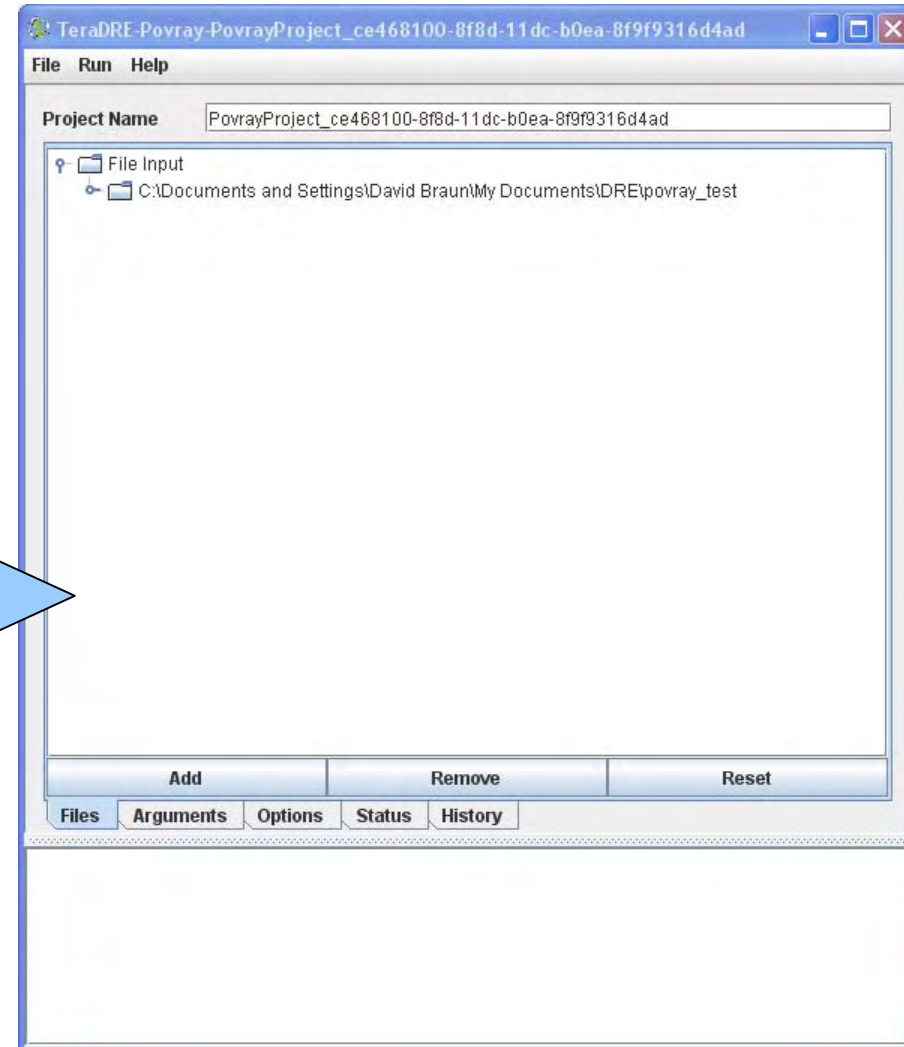
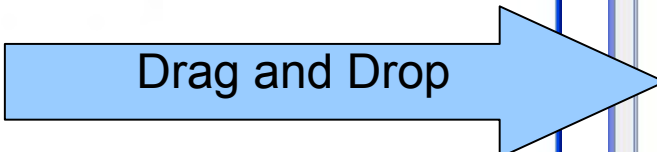
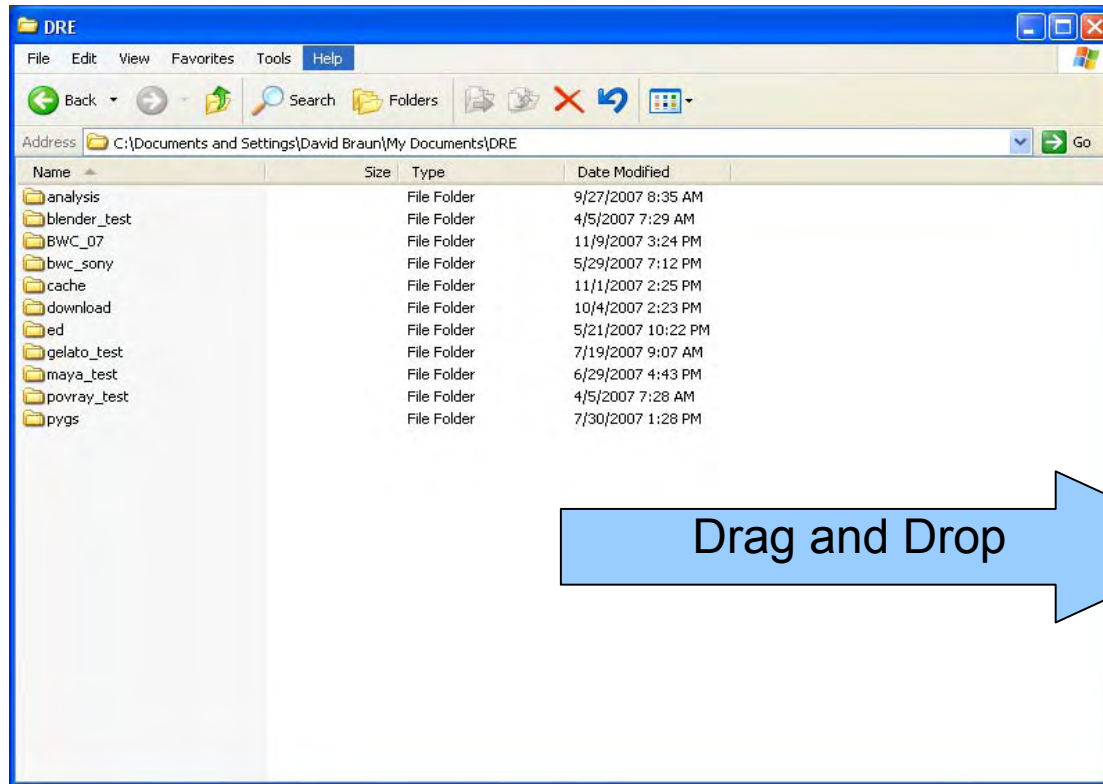
Animations Contain Thousands of Frames !



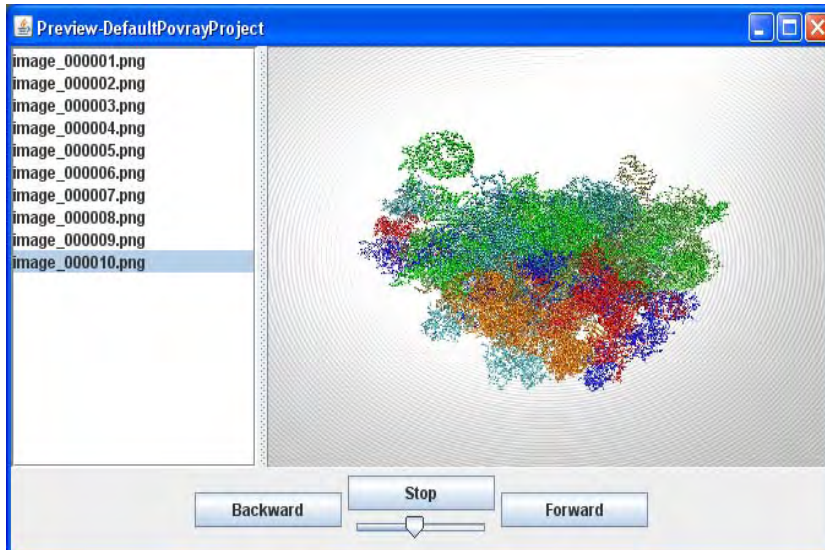
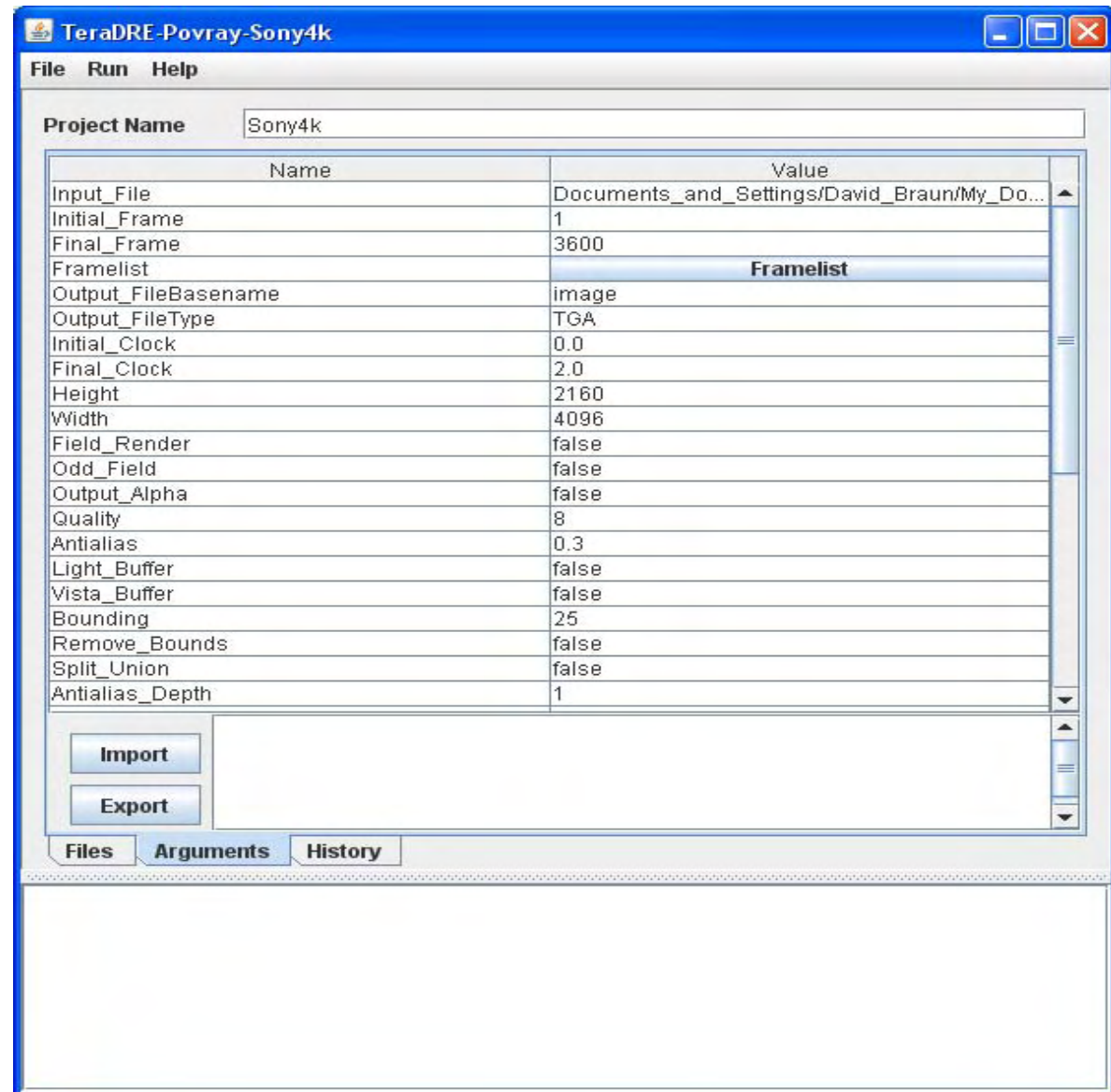
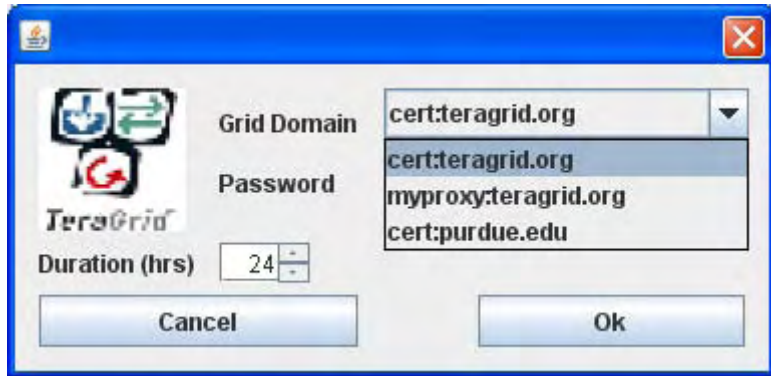
What is the TeraDRE?



Screen Shots

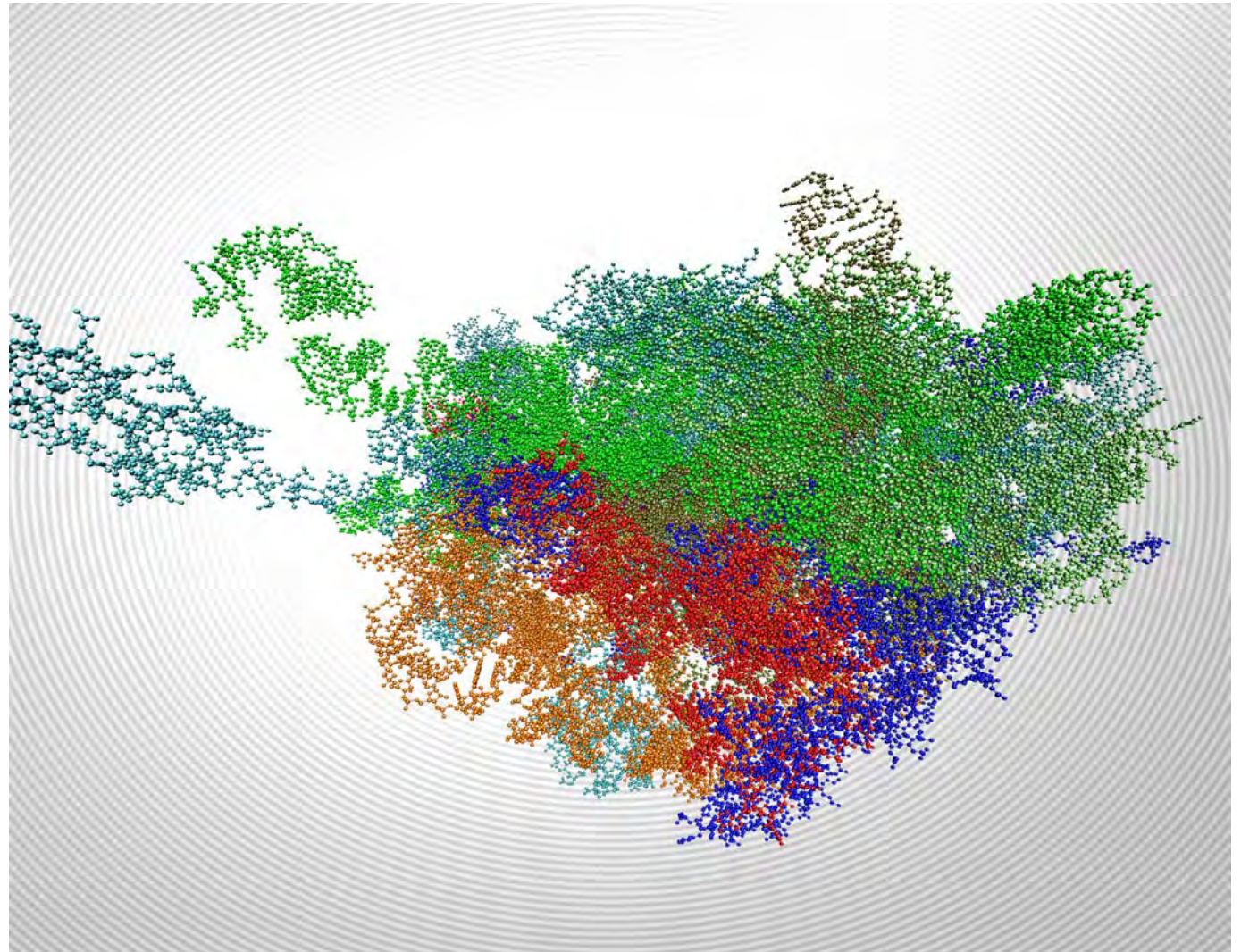


Screen Shots



The Design

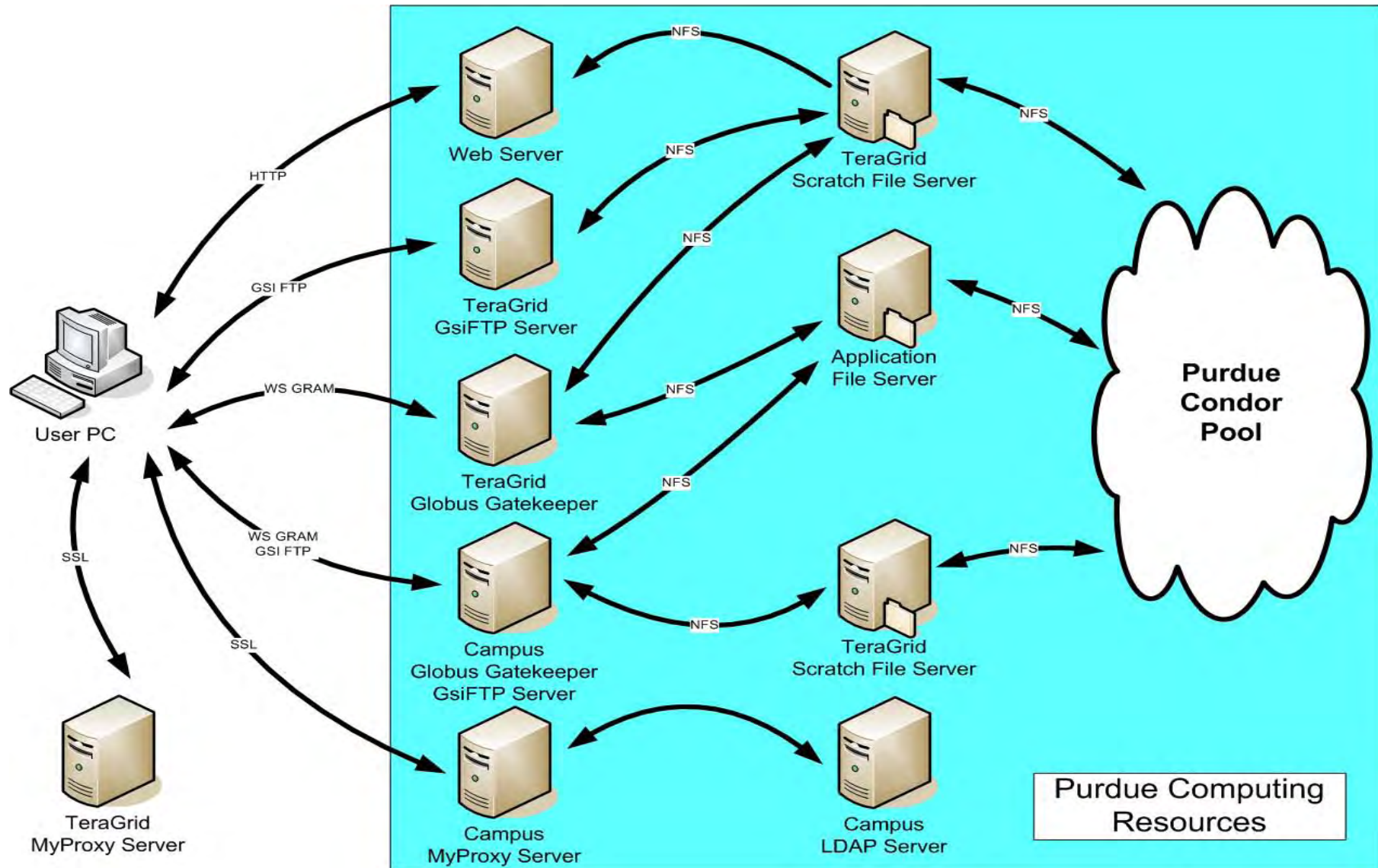
- Rich Client Interface
- Integrated
- Flexibility
- Scalability



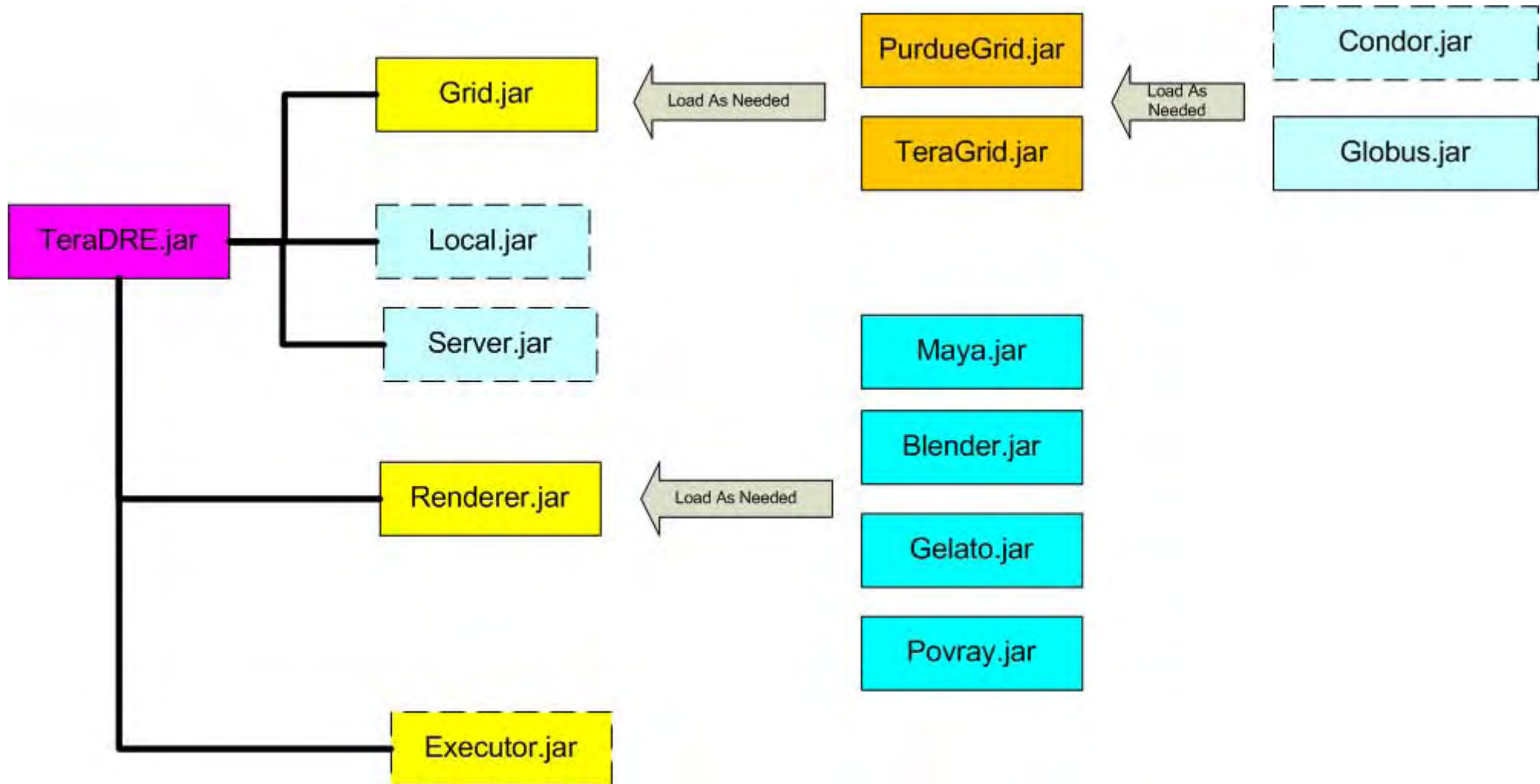
Current Implementation

- Rich Client Interface
 - Java Web Start Application
- Flexibility
 - Additional modelling packages are easily added and deployed.
- Integrated
 - GridDomain
 - Examples TeraGrid, Purdue Campus Grid
 - GridSite
 - Gatekeepers within a Grid Domain.
- JNLP jar assembly to increase download speed.

The Design



Deployment Packages



Future Implementation

- Addition of Service Oriented Architecture elements
- Group allocation and resource management
- File Sharing and Management
- Multi project aggregation
- On demand resource scheduling
- Compositing functions
 - Both local and remote
- Additional encoding functions
- Additional grid domains

Why Beyond the Browser?

- Rich Clients
 - Issues with doing browser based development
 - Using more of the local computation
- Evaluation of New Java Web Start tools
- Real time “grid” collaborations
 - Examples
 - Multi Cursor X11
 - Shared VNC Sessions
 - NetBeans collaboration Server
 - MoonEdit
 - Whiteboardmeeting
 - Google Docs
 - Second Life, EverQuest, Eve Online

Why Beyond the Browser?

- Which GUI do you what to run?
 - Local Application
 - Browser Based Portal Application
 - Commercial Application Integration
- How does this relate to building gateways?
 - Service Oriented Architecture
- Scalability
 - User to Resource
 - User to Middleware to Resource
 - Browser to Middleware to Resource