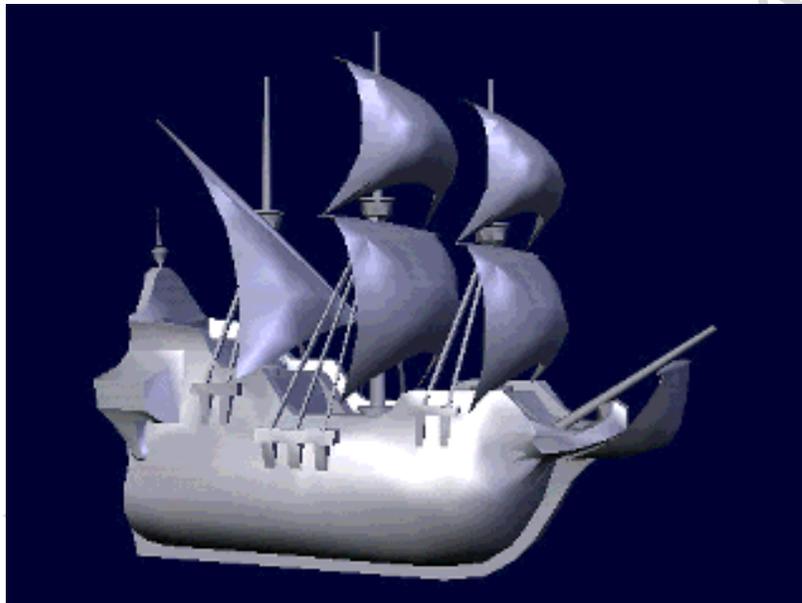


EXTERNAL OBJECTS

1. Loading scene content from files

- Java 3D enables the construction of complex 3D content:
 - Build content directly within your Java application
 - Load content from files
 - Do both
- File loader classes enable reading content from files in standard formats
 - VRML (Virtual Reality Modeling Language)
 - OBJ (Alias—Wavefront object)
 - LW3D (Lightwave 3D scene)
 - others

- Ship: an example of loading an OBJ file



2. Interface for the scene loading

- Loader interface is used to specify the location and elements of a file format to load.
- Scene interface is a set of methods to extract Java3D scene graph information from a file loader utility.

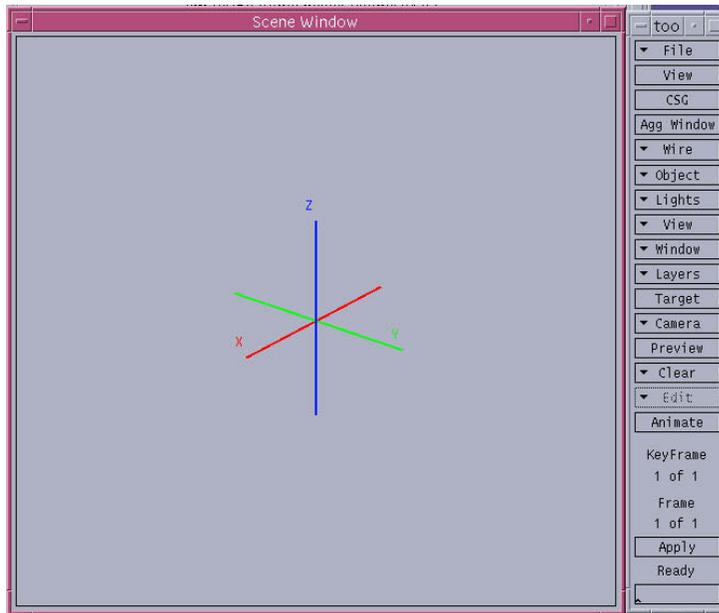
3. Publicly available loaders

File Format	Description
3DS	3D-Studio
DXF	AutoCAD Drawing Interchange File
LWS	Lightwave Scene Format
OBJ	Wavefront
WRL	Virtual Reality Modeling Language

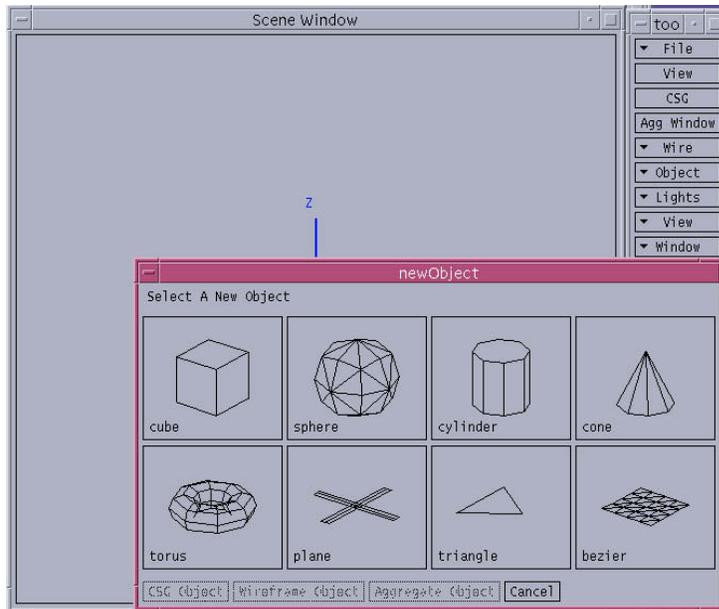
4. Using the VRML97 loader

- Place `vrml97.jar` in the directory `C:\jdk1.4\jre\lib\ext`
- Import two classes in your program
`com.sun.j3d.loaders.vrml97.VrmlLoader`
`com.sun.j3d.loaders.Scene`
- Declare a `Scene` instance and a `VrmlLoader` instance
`Scene scene;`
`VrmlLoader loader = new VrmlLoader();`
- Get the scene and assign it to a `BranchGroup`
`BranchGroup myScene = scene.getSceneGroup();`

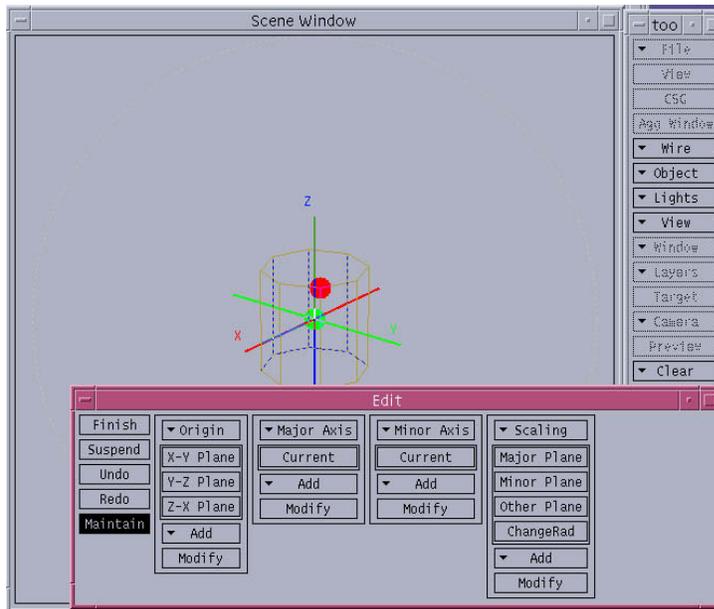
5. SCEDA II: A SScene EDitor/Animator



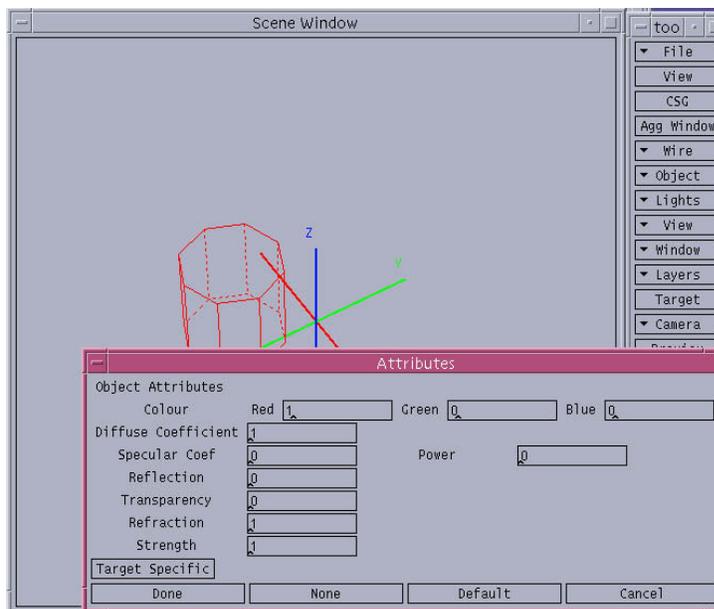
6. Scene construction with sceda



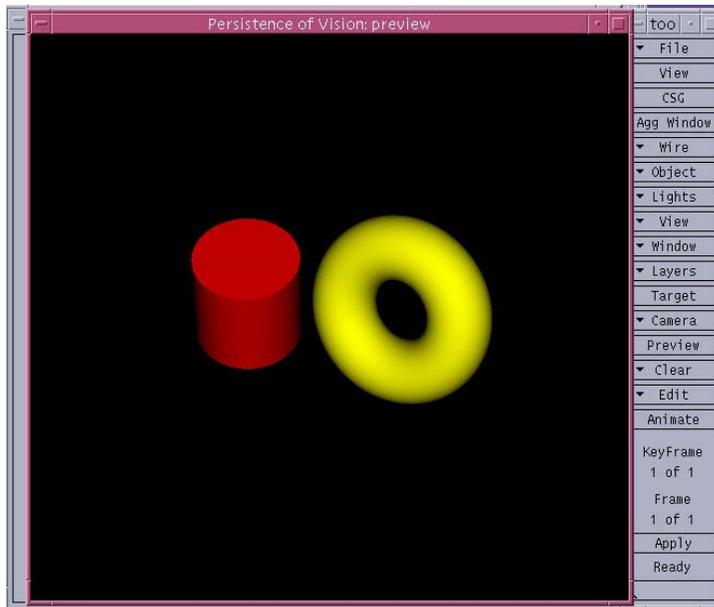
7. Object modeling in *sceda* ([sced tutorials](#))



8. Defining object attributes in *sceda*



9. Online scene visualization with [povray](#)



10. A more complex example

