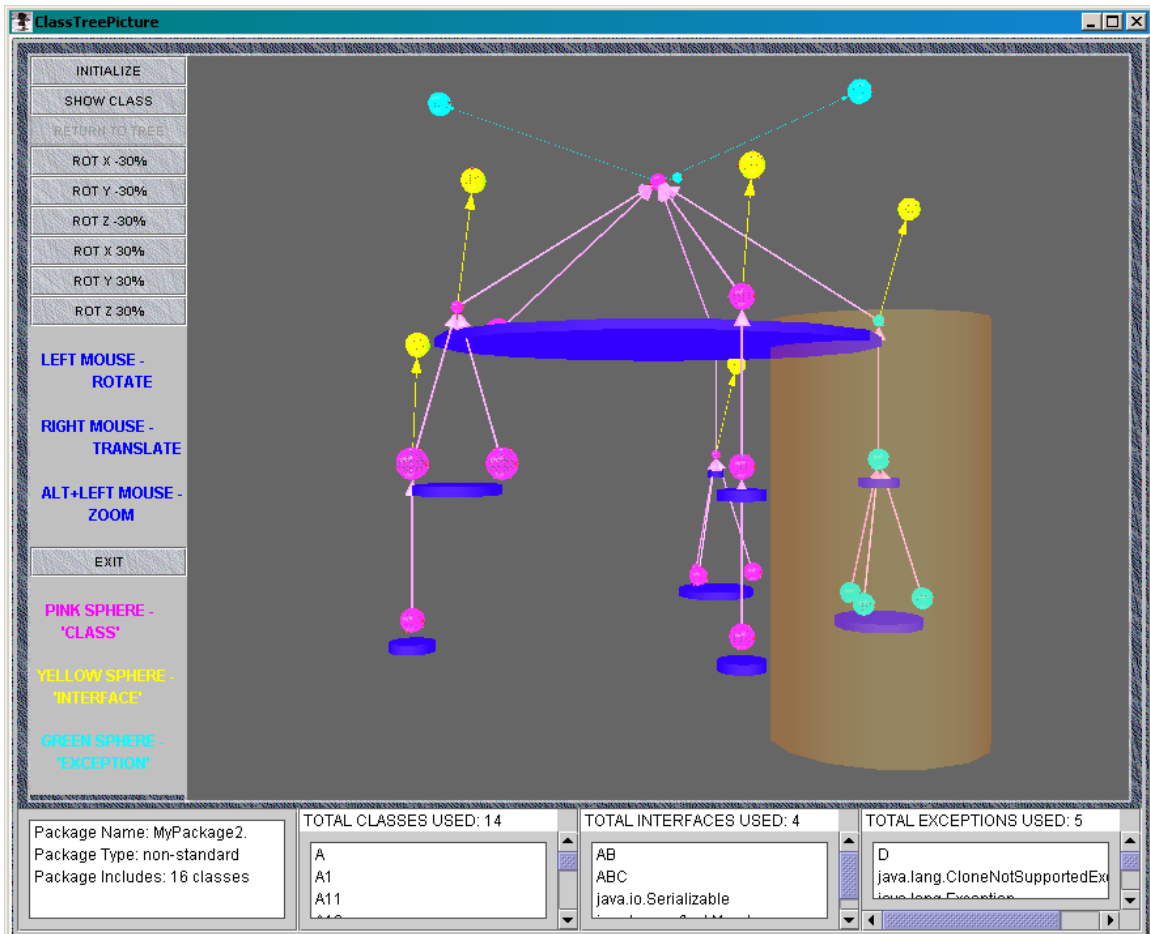


# VISUALIZATION OF OBJECT-ORIENTED CLASS LIBRARIES

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This graduate project represents the design and implementation of a prototype application for visualizing an Object Oriented Java class package (library). An inheritance tree of the classes is drawn in 3D. A graphic user interface allows the user to interact with the application; to navigate through the visualization, rotate the visualization, and to select individual classes for a more detailed visualization as well as a 2D UML object representation. The program is written using the Java 2 SDK and the Java 3D API. The Java reflection package is used to obtain information about the classes in the package. The effectiveness of this visualization prototype and possible enhancements are also presented. The prototype provides users a different perspective on Java packages that they are either studying or working on.



A11

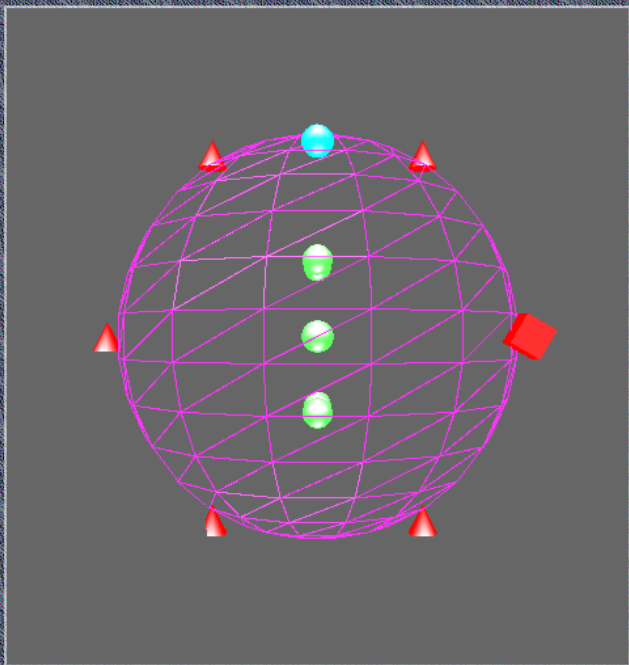
INITIALIZE  
ROT X 30%  
ROT Y 30%  
ROT Z 30%  
ROT X -30%  
ROT Y -30%  
ROT Z -30%

LEFT MOUSE - ROTATE  
RIGHT MOUSE - TRANSLATE  
ALT+LEFT MOUSE - ZOOM

EXIT

GREEN - PRIVATE  
RED - PUBLIC  
LIGHT BLUE - PROTECTED

SPHERE - FIELD  
BOX - CONSTRUCTOR  
CONE - METHOD



A11

FIELDS

- #count:int
- tmp:double
- ret:boolean
- B1obj:B1
- C111obj:C111
- A11str:boolean
- ansExcept:boolean

CONSTRUCTORS

- +A11()

METHODS

- +getName():java.lang.String
- +ID():double
- +A11 string():java.lang.String
- +RetA11():boolean
- +A11 double(double):double
- +TryExcept(double):boolean