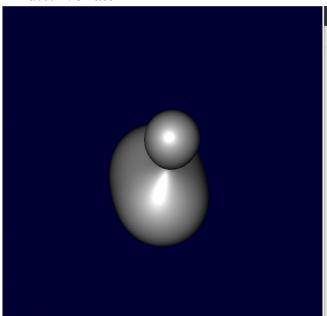
Tutorial: Steps to create metaballs in BRL CAD

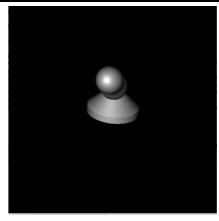
- 1. BRL CAD contains two apps: MGED and Archer. First open up MGED. Once you open the app up, three windows will pop up.
- 2. Next you need to create a new database for your project. In the window titled Command window, type *opendb metaball*. (It will ask you if you want to create a new database. Just type *y*)
- 3. Open up the file by retyping it.
- 4. In the command window type *in* to create a new shape then you have to list the name, the render method, threshold, number of points, location and field strength for each point. To create this specific metaball shape I had inputed *in metaball 1 metaball 2 2 3 1 2 3 2 3 4 2 4 5 6 7 2*
- 5. This will give us three balls in our graphics window. When Raytraced the bottom two will merge, though if you want two just modify the amount of points.
- 6. Optional: To ray trace the metaball just type *rt* in the command window.
- 7. And... voila!!



Steps to inspect the metaballs

- 1. Go to the command window
- 2. Type *l* then the name of your metaball (in this case, metaball_1) to get the location details of it.

What I used this metaball is used for:



I used the metaball that was developed to make this chess piece. It is a pawn with head and a mask. I set the metaball with equal direction on both sides to create it.