-Left-click and hold to rotate
-Middle click and scroll to zoom.
-Ctrl-right click to pan
-Navigate views with buttons.

Default View | Hard-Sphere Model | Sparse Model | Coordination

Atomic positions:

0 0 0

Atoms touch along cube edge:

$$\text{Coordination} = 6$$

Atoms per unit cell:

$$n = N_i + \frac{N_f}{2} + \frac{N_c}{8} = 1$$

Lattice parameter

$$a = 2r$$

Atomic packing factor

$$(\text{APF}) = \frac{n\, V_{\text{atom}}}{V_{\text{u.c.}}} = 0.52$$

Calculate density:

$$\rho = \frac{n\, A}{V_{u.c}\, N_A}$$