(in Panda3D)



Geometry (a.k.a. meshes)



Cameras (to view the scene through



Light sources

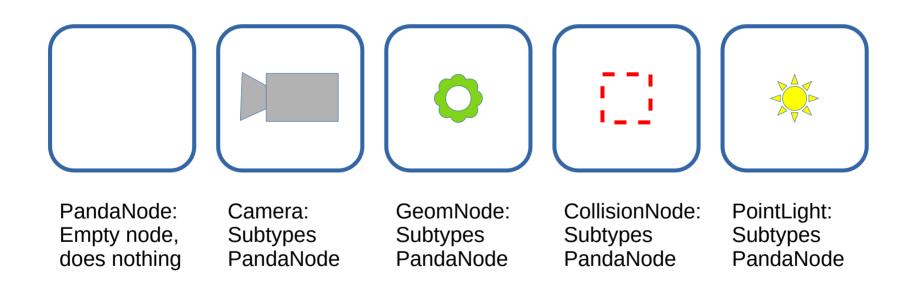


Collision volumes

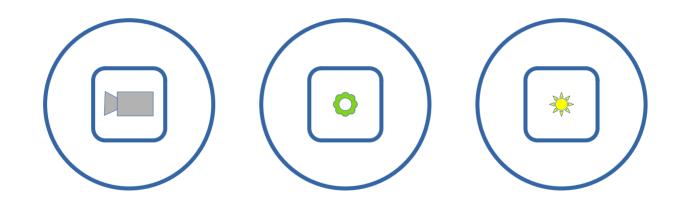


Sound sources

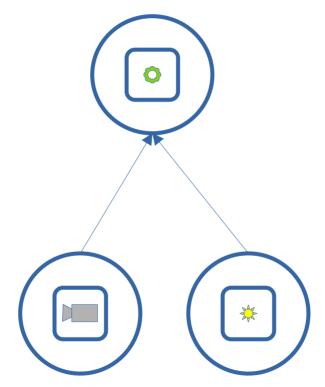
When creating 3D (or 2D) worlds, there are a lot of things that go into it, These are only a small selection.



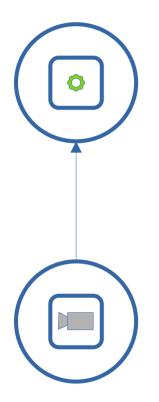
By themselves, they just exist (as subtypes of PandaNode, called nodes for ease). They have no position in any space, nor do they exist in the same space.



To put them into relation with each other, we put nodes into NodePaths.

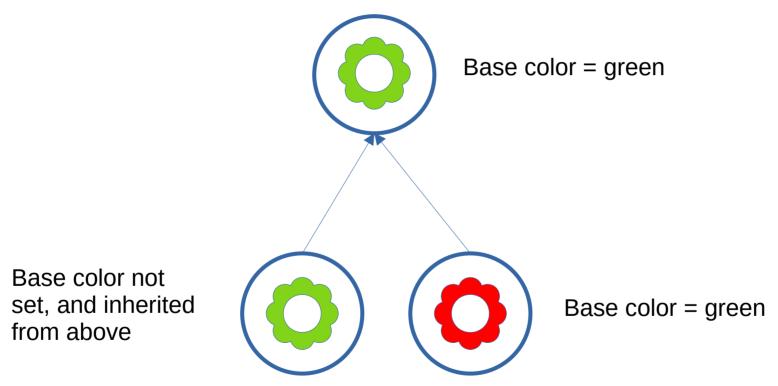


NodePaths are put into a parent-child relationship, forming a tree.



- TransformState: Translation, rotation, scaling
- RenderState: Antialias, texture, shader, fog, ...
- Effects: billboard, compass, ...
- tags

NodePaths also have several attributes that influences how they are rendered.



Some render attributes are inherited (transitively) from parents unless set. (Boxes for PandaNode subtypes are omitted.)