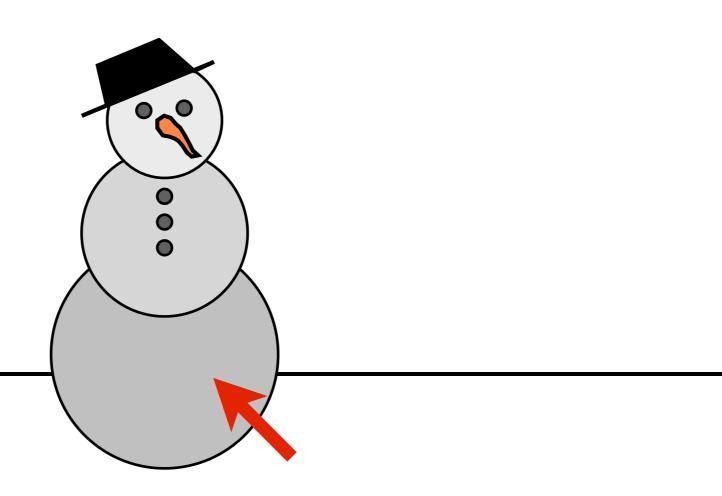
# The Art of Graphics Programming

**Technical Context** 

# Scenegraph Overview

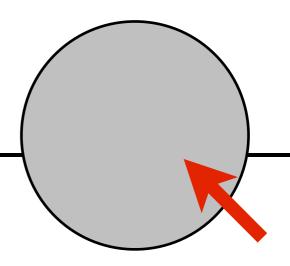
Patrick Hebron
NYU ITP

#### What if we want to move this snowman?



#### We probably don't want this:





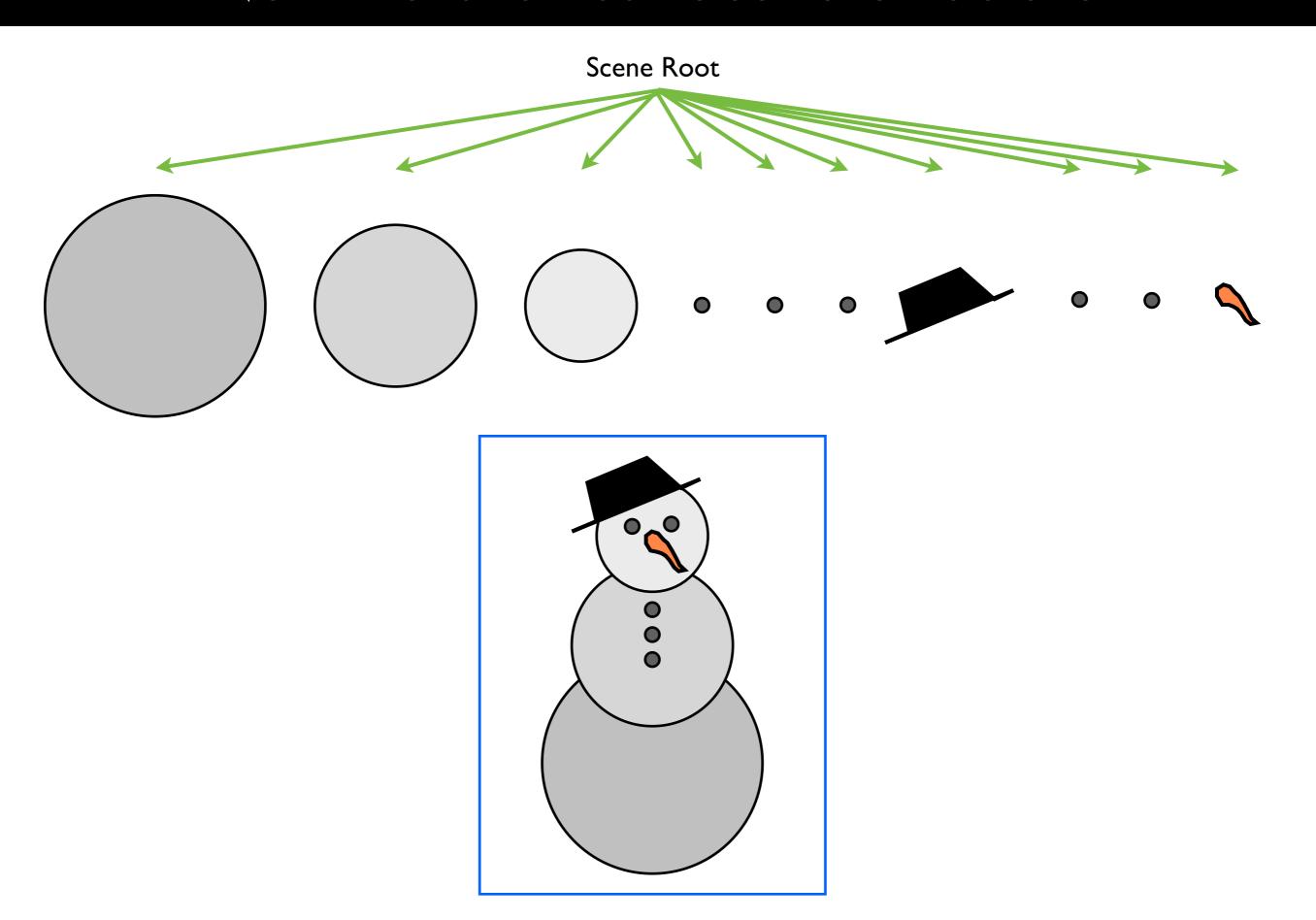
### We want this:



In the first interaction, the parts of the snowman were stored non-hierarchically in a single array.

To move the entire snowman, we would need to move each component individually.

#### Non-Hierarchical Scene Structure



In the second interaction, the snowman moved as a single object when we grabbed it by its base component.

To achieve this, we used a hierarchical organization of component objects, called a scenegraph.

## Scenegraph Hierarchy

