Composite Design
Pattern

Design Patterns Video Tutorial 18

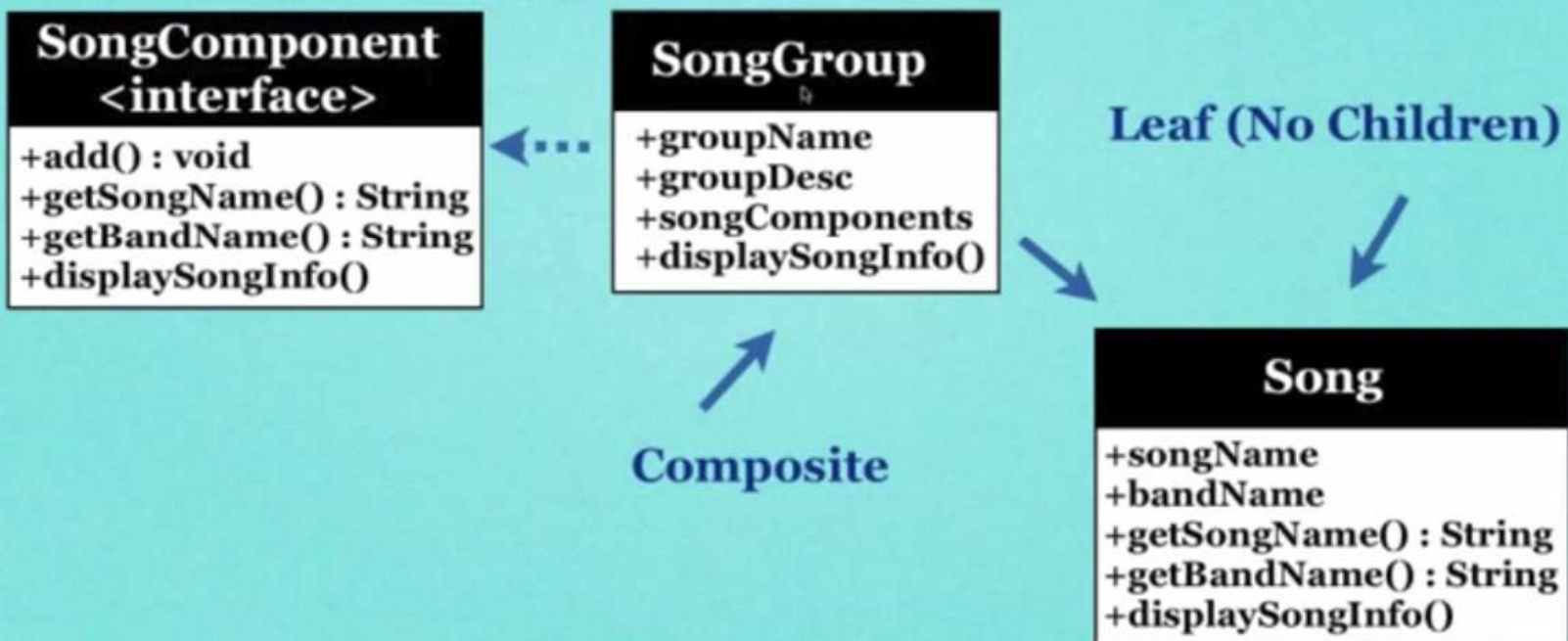*Composite Design Pattern*

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What is the Composite Design Pattern?

- Allows you to treat individual objects and compositions of objects uniformly

- They allow you to represent part-whole hierarchies
  - Components can be further divided into smaller components

- You can structure data, or represent the inner working of every part of a whole object individually

What is the Composite Design Pattern?

SongComponent
<interface>

+add() : void
+getSongName() : String
+getBandName() : String
+displaySongInfo()

SongGroup

+groupName
+groupDesc
+songComponents
+displaySongInfo()

Composite

Leaf (No Children)

Song

+songName
+bandName
+getSongName() : String
+getBandName() : String
+displaySongInfo()