Inheritance phrase

If you can describe a class using “is a”, then you are likely talking about inheritance.

Example

Class: Transportation

Fields: make, model, power, passengers

Class: Boat : **Transportation** \*\*

Fields: hauls, length, draft

Class: Vehicle : **Transportation** \*\*

Fields: Terrain, Type

Class: Sedan : **Vehicle** \*\*\*\*

Class: Truck : **Vehicle** \*\*\*\*

\*\* Transportation is known as the **base** class in this inheritance

\*\* Vehicle is known as the **base** class in this inheritance

Transportation

Vehicle

Boat

Sedan

Truck

Composite phrase

If you can describe a class using “has a”, then you are likely talking about composition.

Example:

Class: Employment

Class: ResidentAddress

Class: Person

Field: FirstName

LastName

ResidentAddress

List<Employment>

List<Employment>

ResidentAddress

Person

FirstName

Lastname