# **Visitor Pattern**

#### **Problem**

### Sometimes you have

 many types of objects with differing interfaces, and you want to perform operations on these objects that depend on their types.

 many distinct and unrelated operations that you need to be performed on objects.

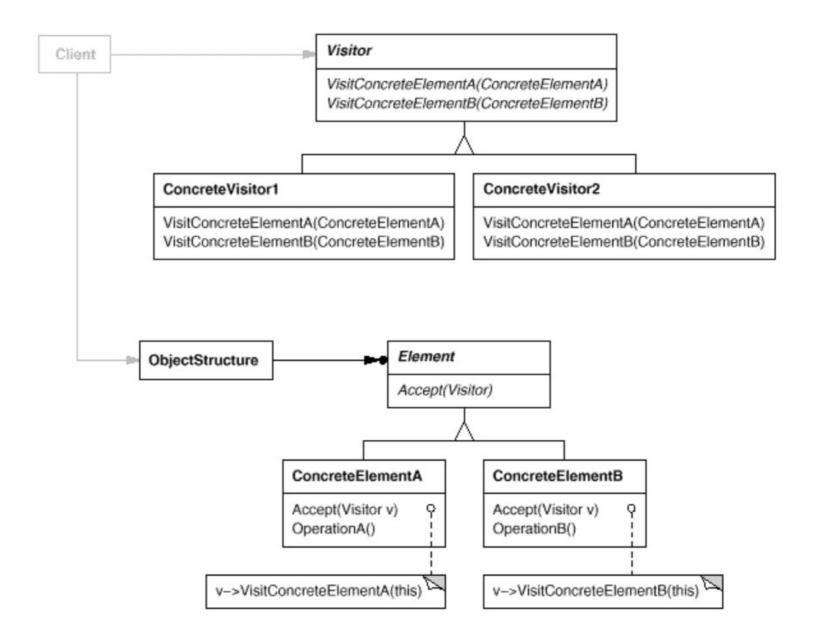
 classes definitions that might change, but you often want to define new operations over the structure.

#### **Visitor Pattern Definition**

"Represent an operation to be performed on the elements of an object structure.

Visitor lets you define a new operation without changing the classes of the elements on which it operates." Gamma et al.

## Structure of Visitor pattern



#### Related Patterns

 Composite: Visitors can be used to apply an operation over an object structure defined by the Composite pattern.

Interpreter: Visitor may be applied to do the interpretation.

## Summary

"Represent an operation to be performed on the elements of an object structure. Visitor lets you define a new operation without changing the classes of the elements on which it operates."" Gamma et al.

Mediator Pattern is considered to be a behavioral pattern.