

Trường Đại học Khoa Học Tự Nhiên
Khoa Công Nghệ Thông Tin
Bộ môn Công Nghệ Phần Mềm

CTT526 - Kiến trúc phần mềm

Mẫu thiết kế

Structural Patterns

cuu duong than cong . com

PGS.TS. Trần Minh Triết
tmtriet@fit.hcmus.edu.vn

cuu duong than cong . com



KHOA CÔNG NGHỆ THÔNG TIN
TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN

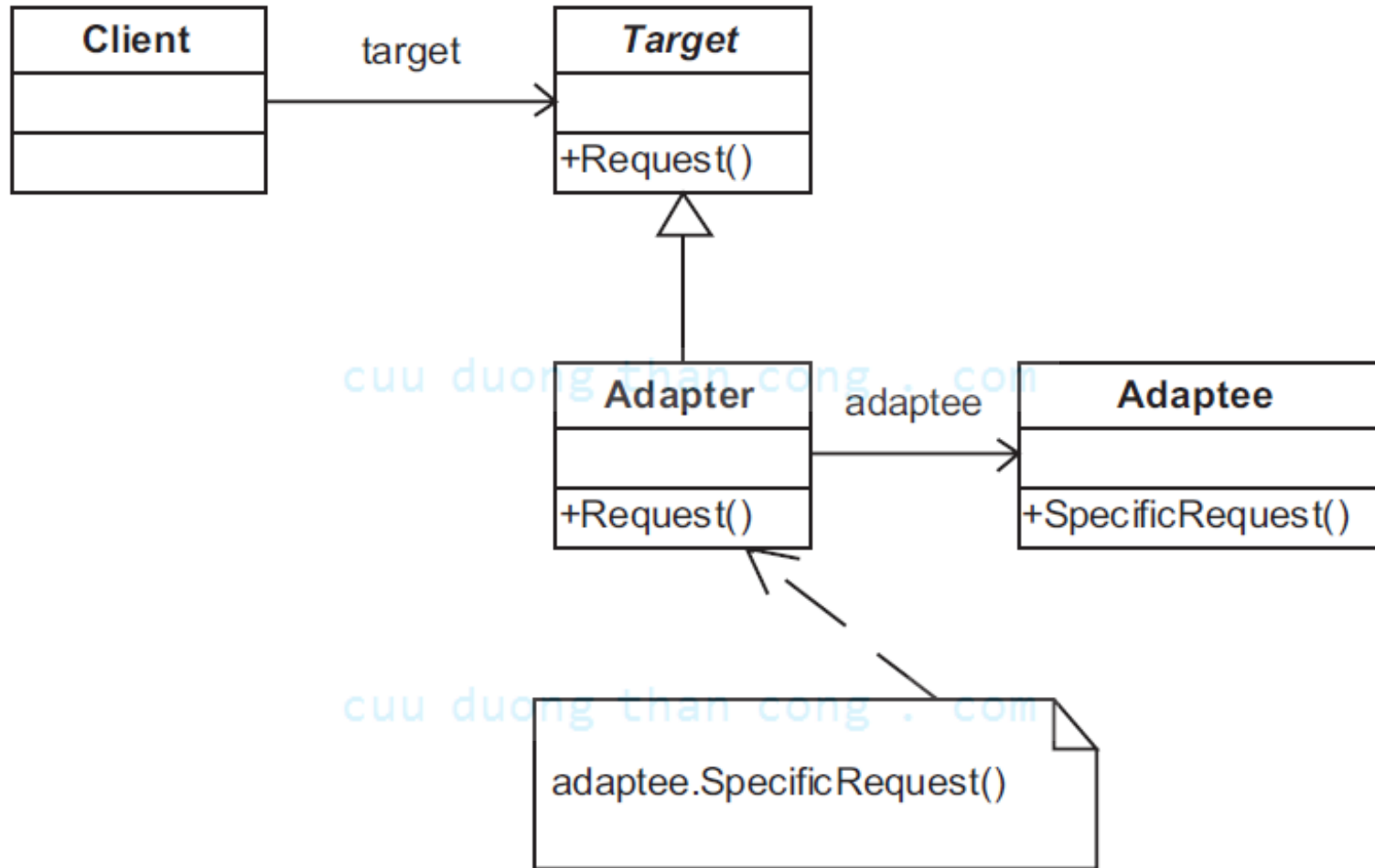


Mẫu thiết kế trong nhóm Structural Pattern

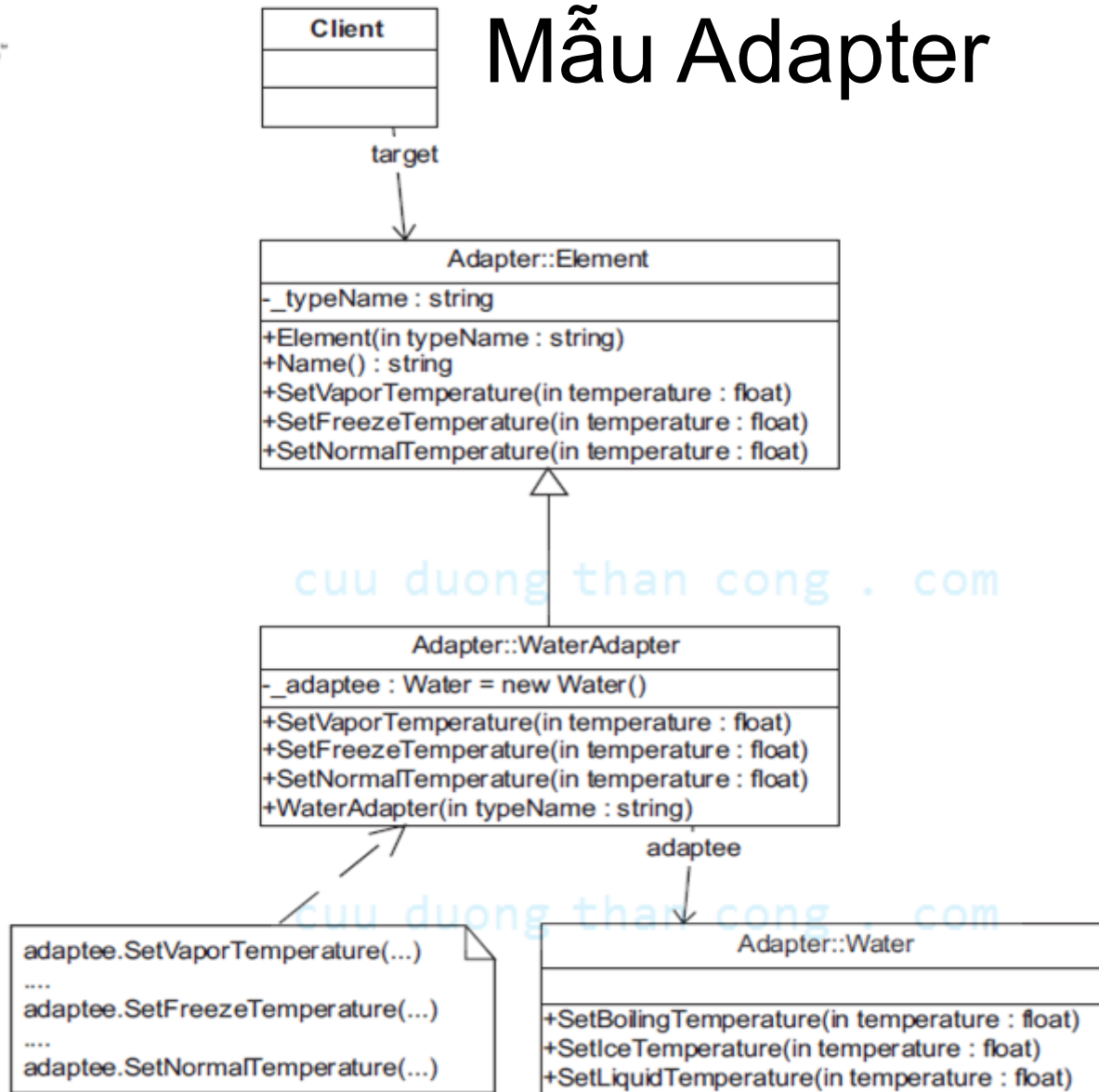
- ☐ Mẫu Adapter
- ☐ Mẫu Bridge
- ☐ Mẫu Composite
- ☐ Mẫu Decorator
- ☐ Mẫu Facade
- ☐ Mẫu Flyweight
- ☐ Mẫu Proxy

[cuu duong than cong . com](http://cuuduongthancong.com)

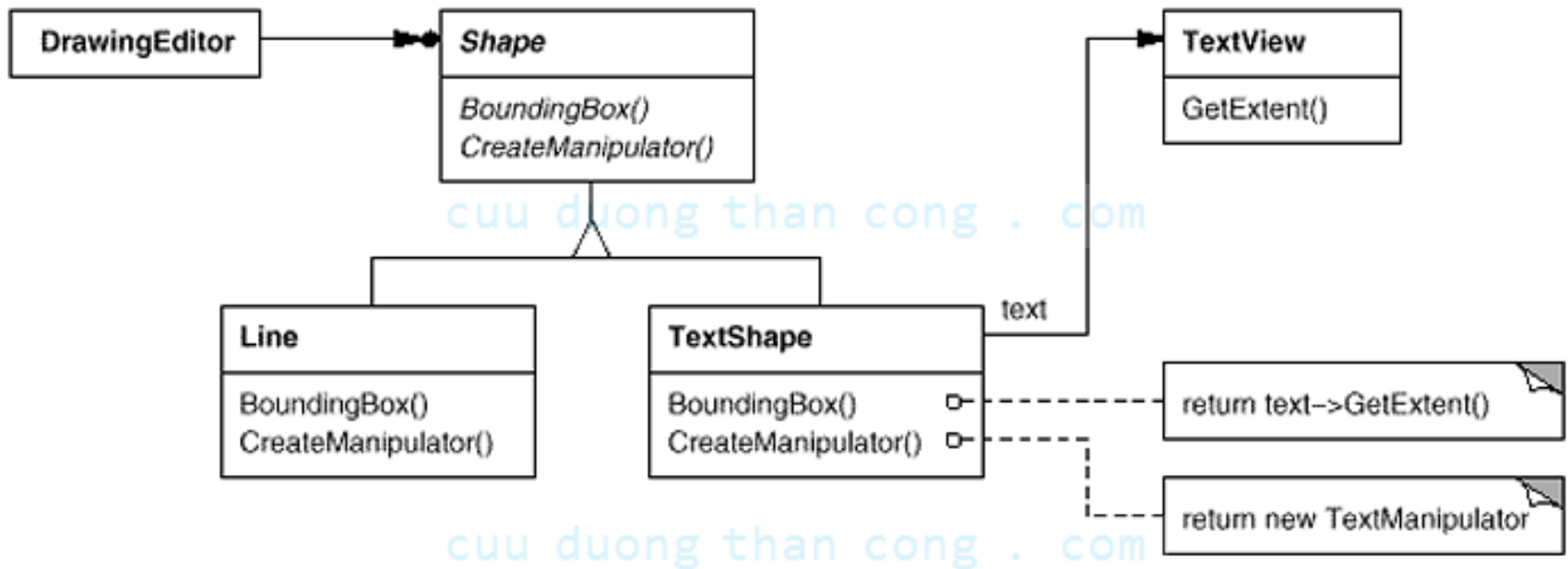
Mẫu Adapter



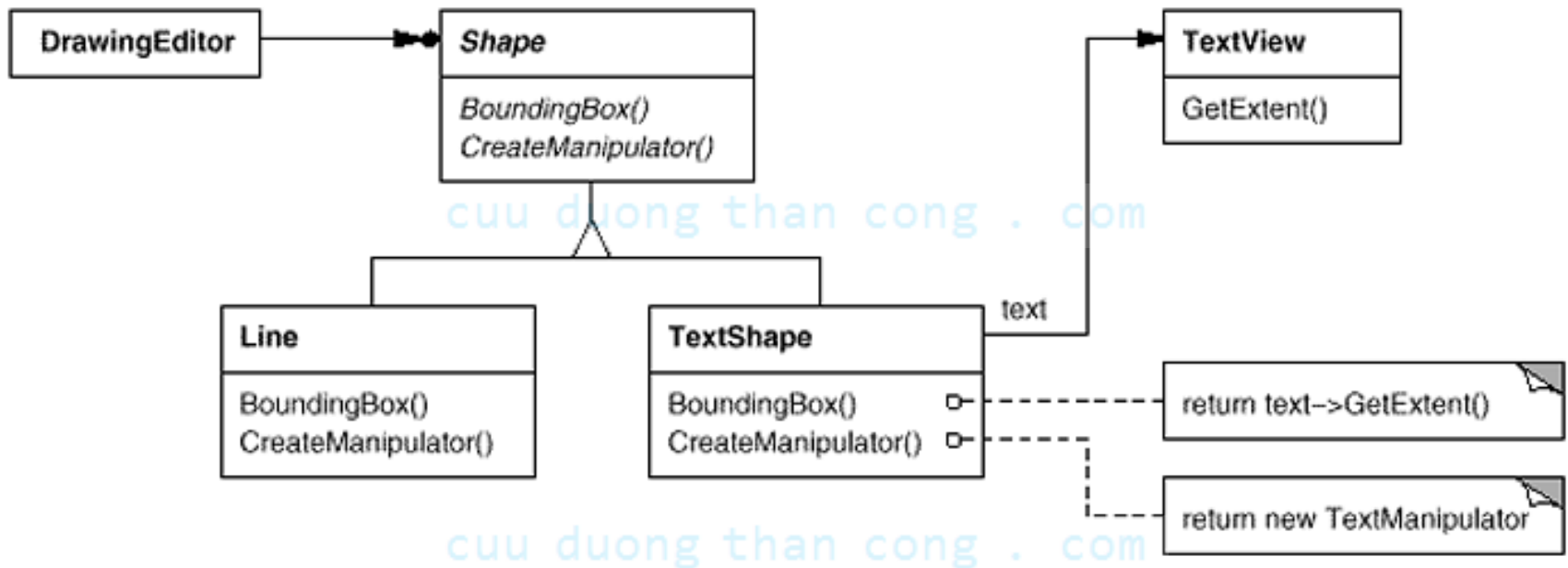
Mẫu Adapter



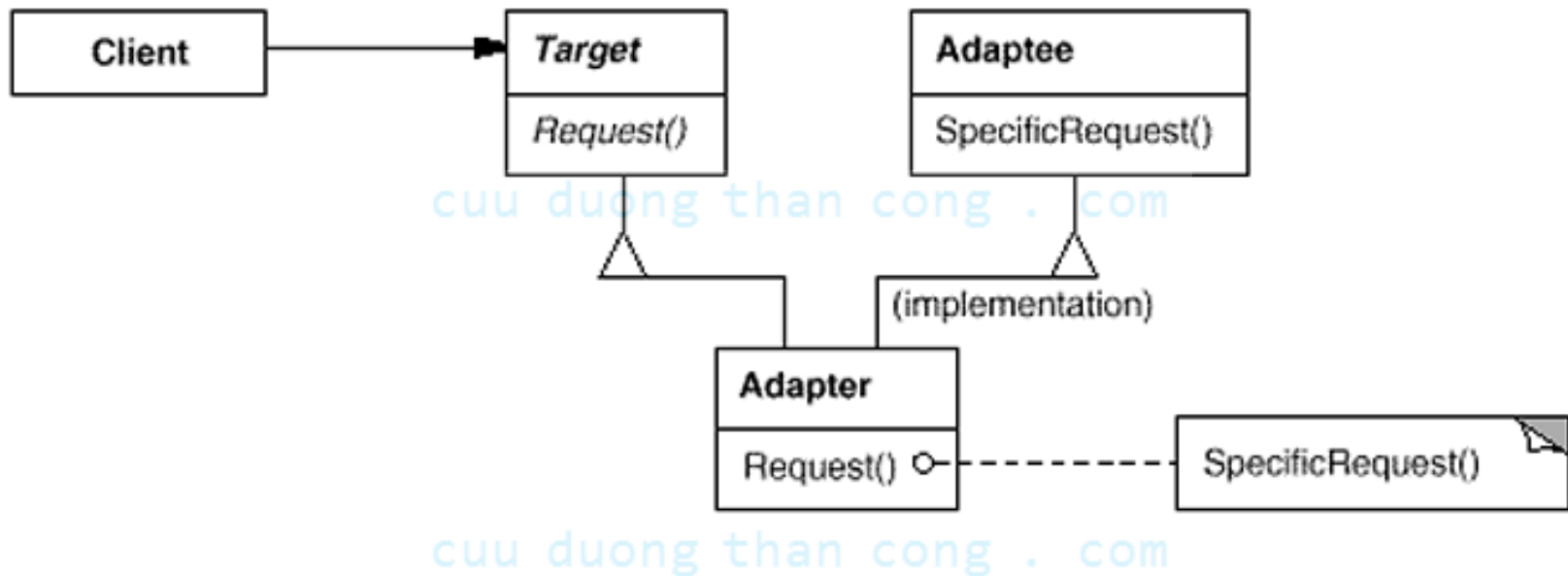
Mẫu Adapter



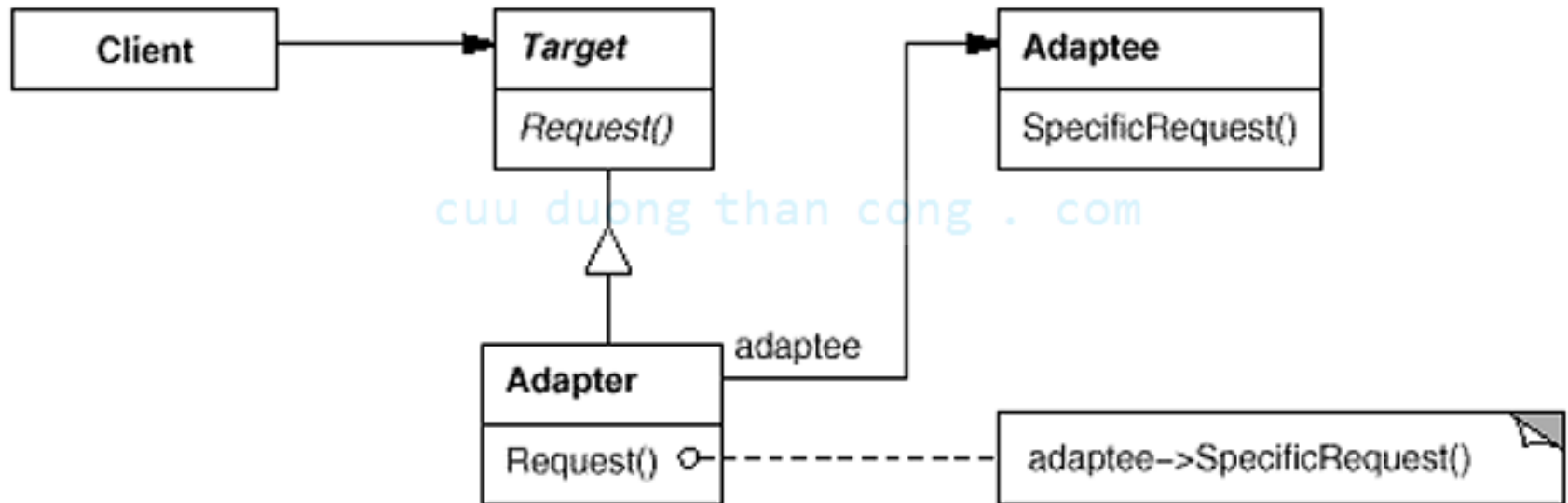
Mẫu Adapter



Mẫu Adapter



Mẫu Adapter

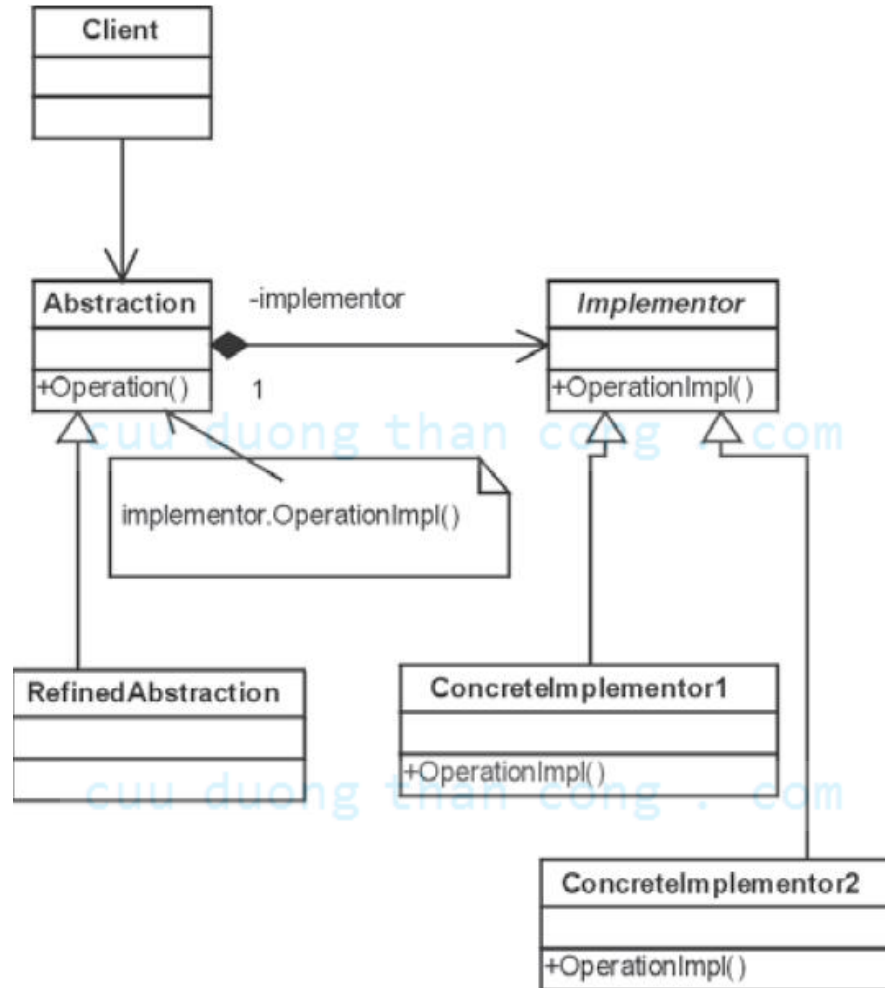


Mẫu Adapter

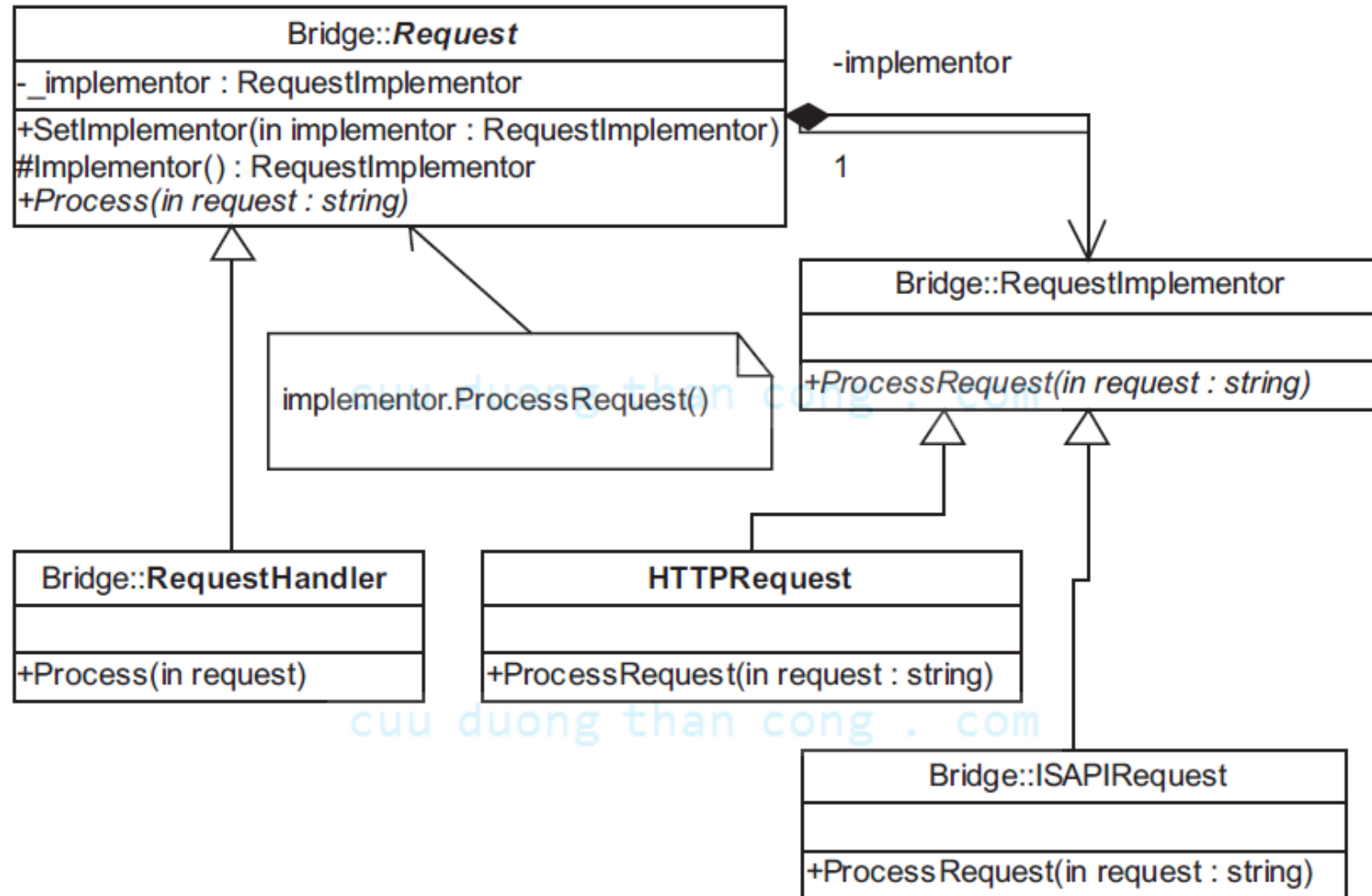
- Thảo luận
 - ▣ Bản chất của mẫu Adapter?
 - ▣ Những tình huống sử dụng
 - ▣ So sánh với các mẫu liên quan
 - Bridge pattern
 - Decorator pattern
 - Facade pattern
 - Proxy pattern
 - Template pattern
 - Visitor pattern



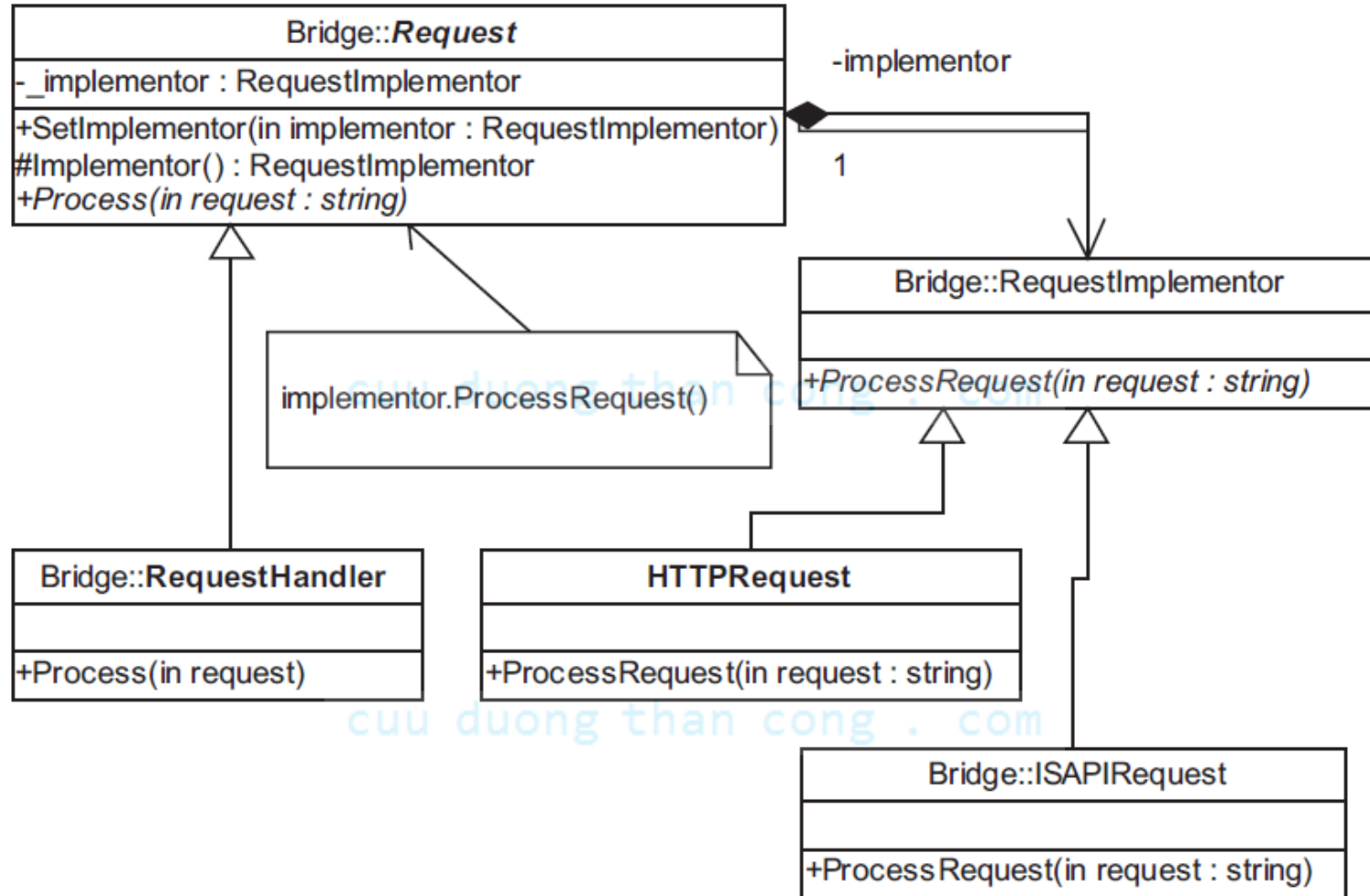
Mẫu Bridge



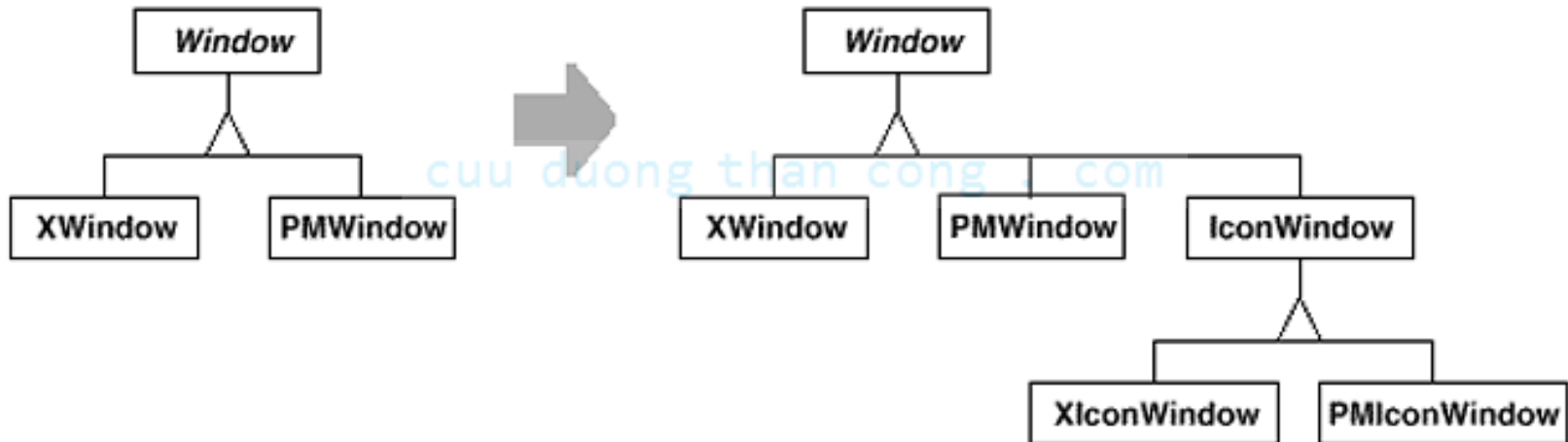
Mẫu Bridge



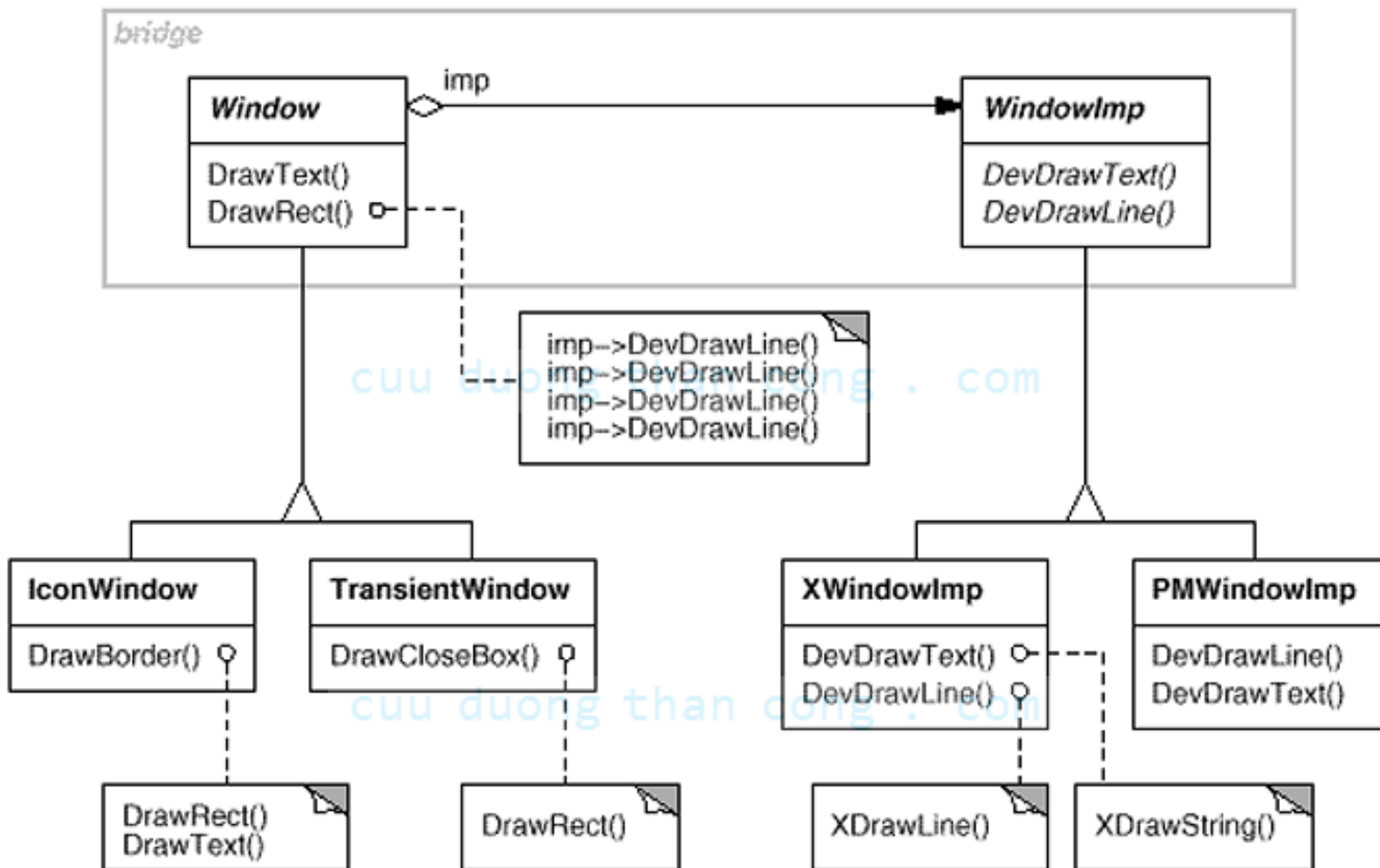
Mẫu Bridge



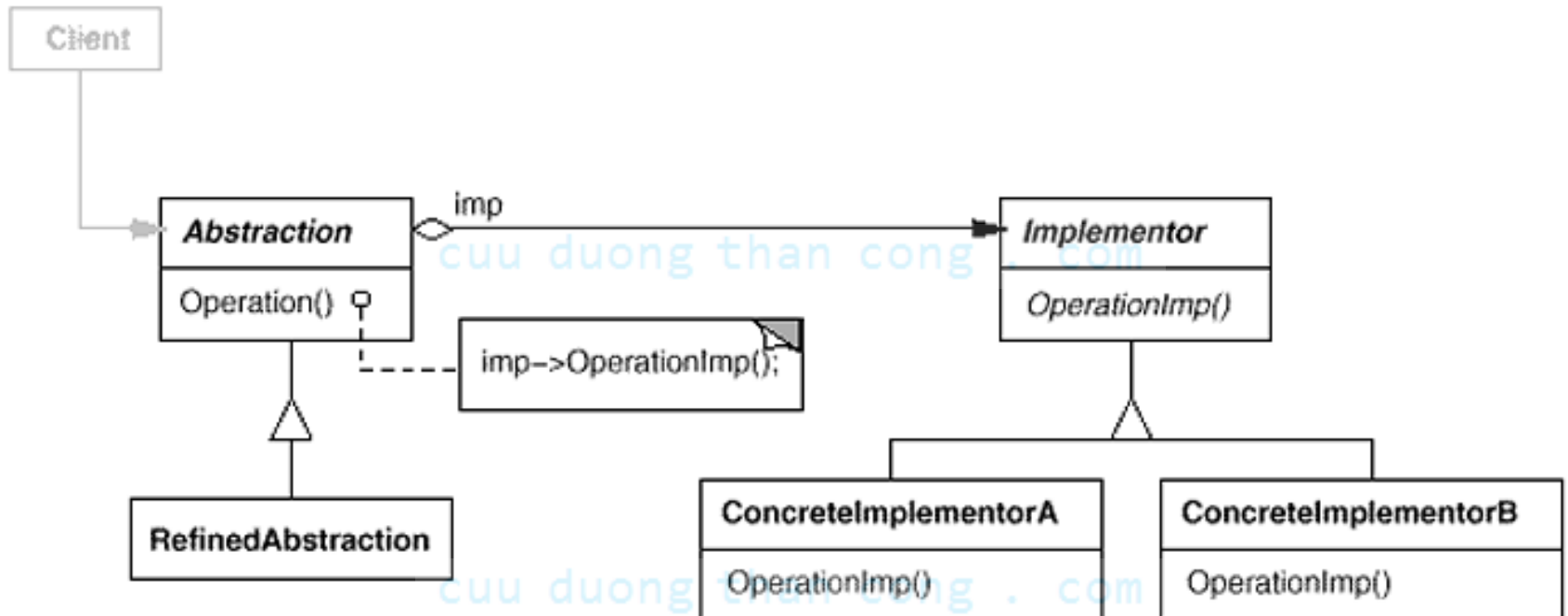
Mẫu Bridge



Mẫu Bridge



Mẫu Bridge



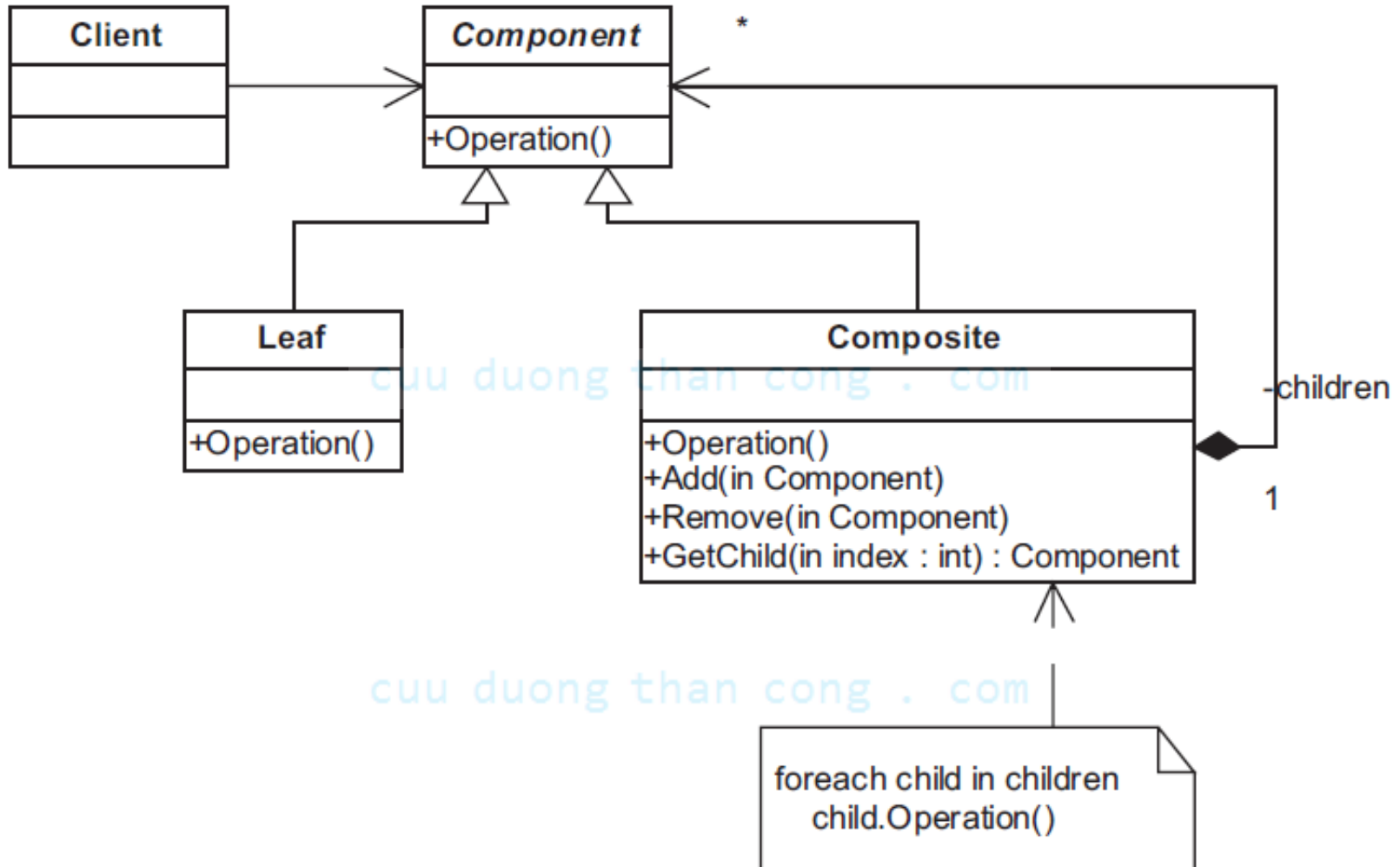
Mẫu Bridge

- Thảo luận
 - ▣ Bản chất của mẫu Bridge?
 - ▣ Những tình huống sử dụng
 - ▣ So sánh với các mẫu liên quan
 - Adapter pattern
 - Facade pattern
 - Proxy pattern
 - Template pattern

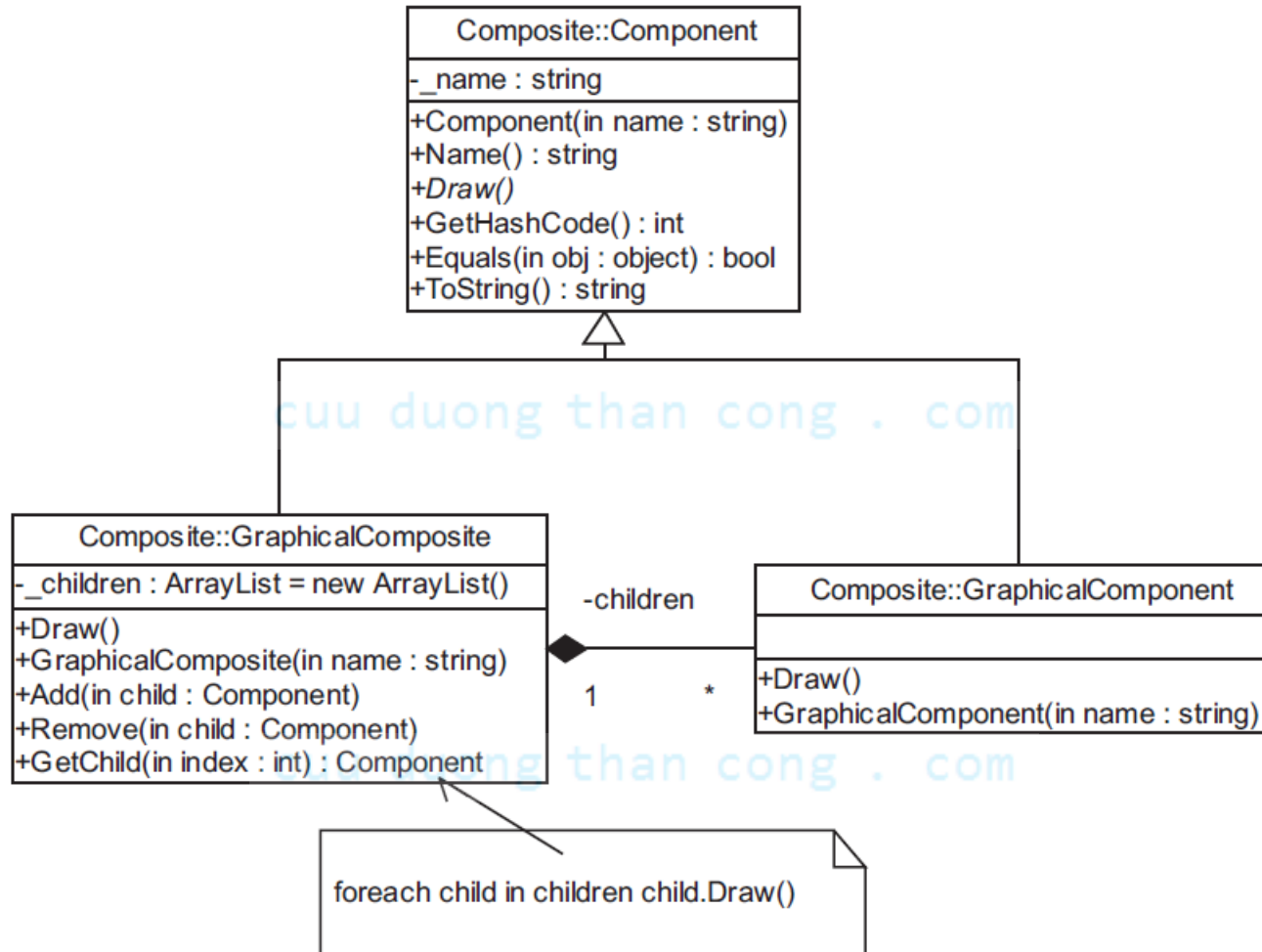


cuu duong than cong . com

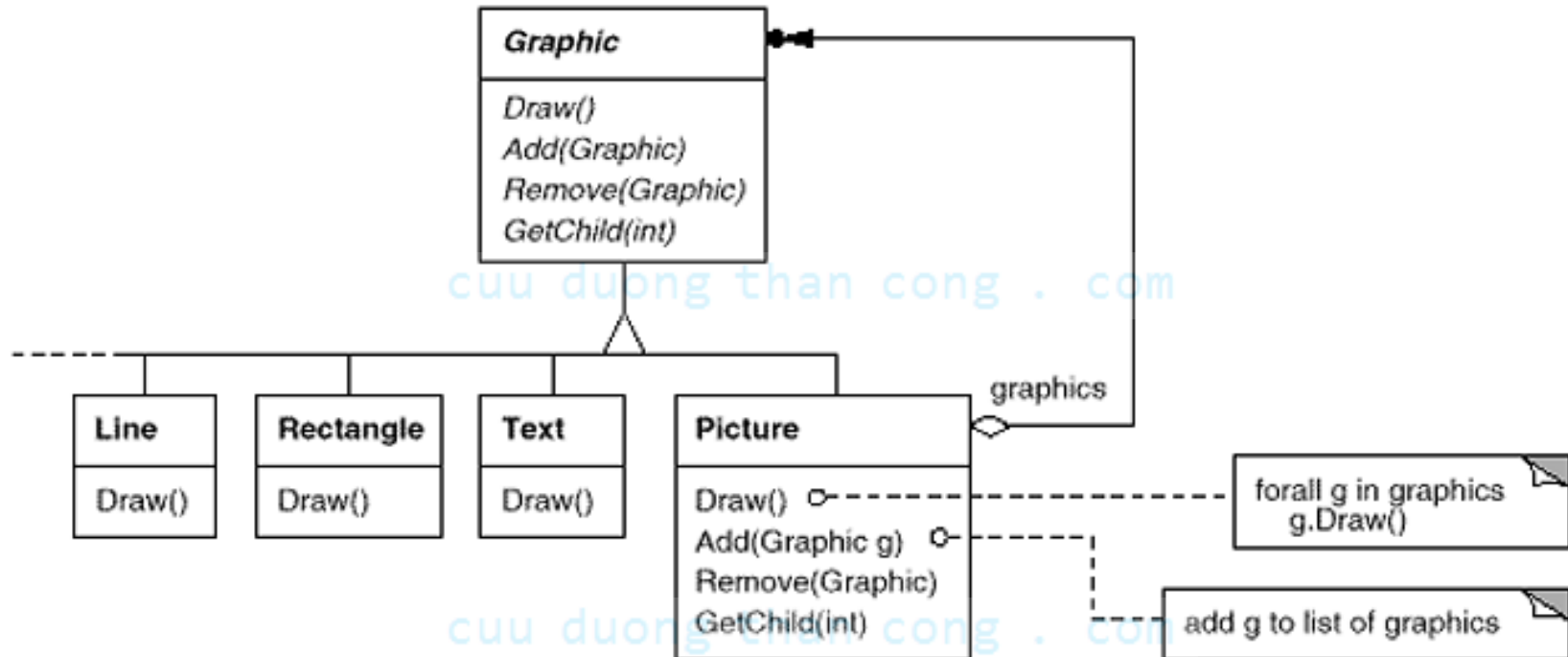
Mẫu Composite



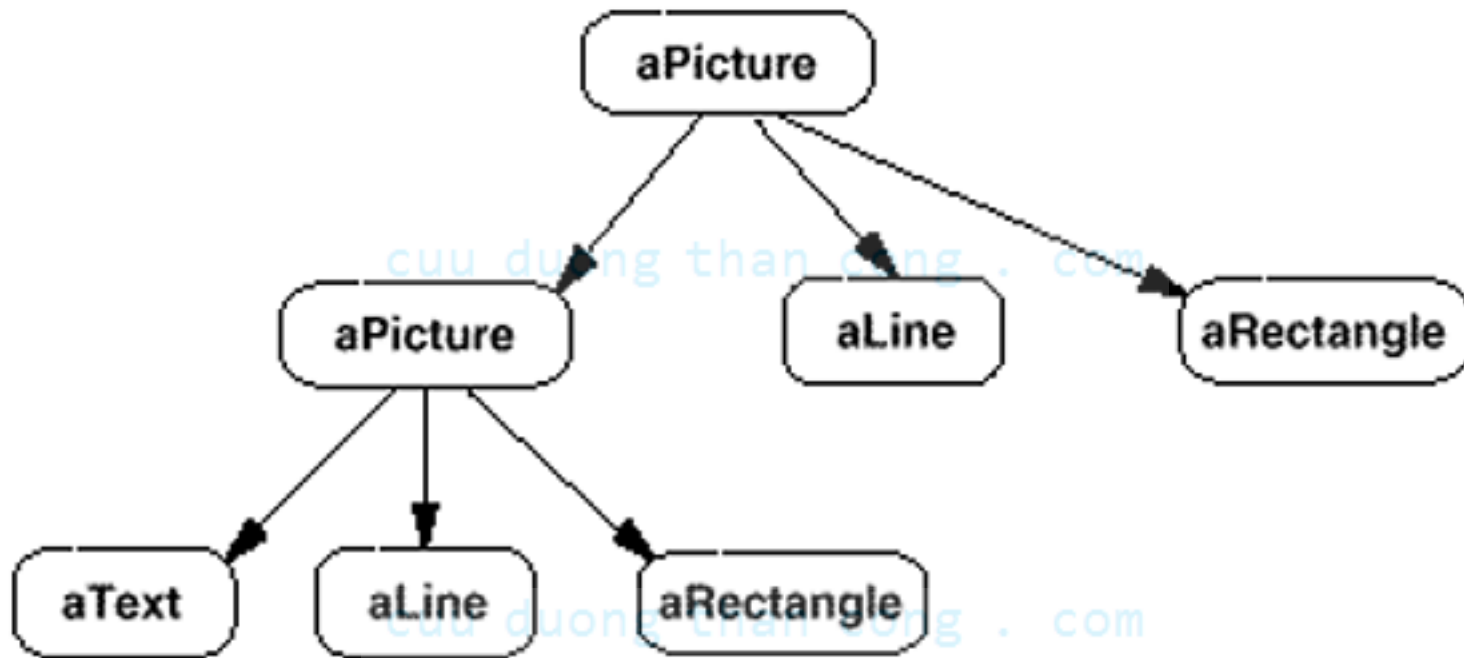
Mẫu Composite



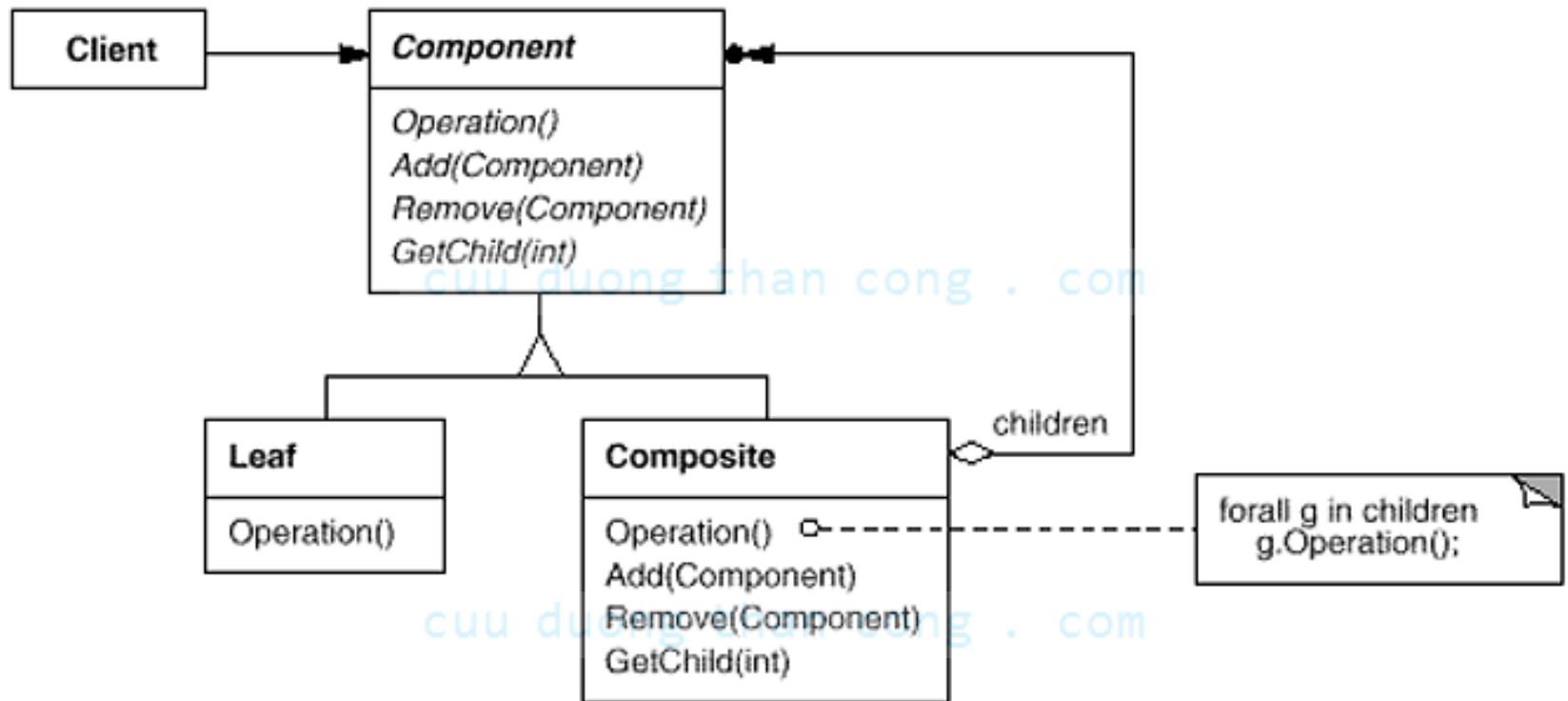
Mẫu Composite



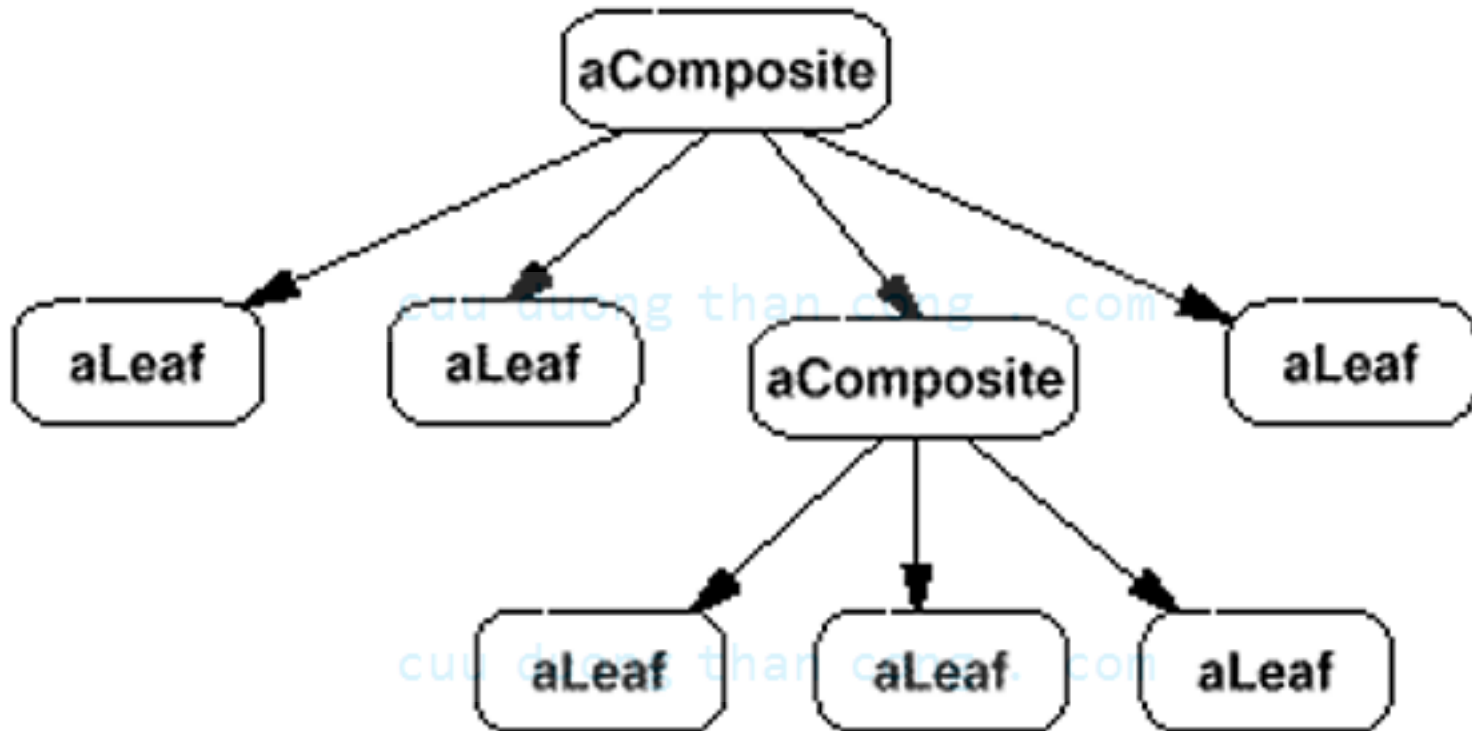
Mẫu Composite



Mẫu Composite



Mẫu Composite

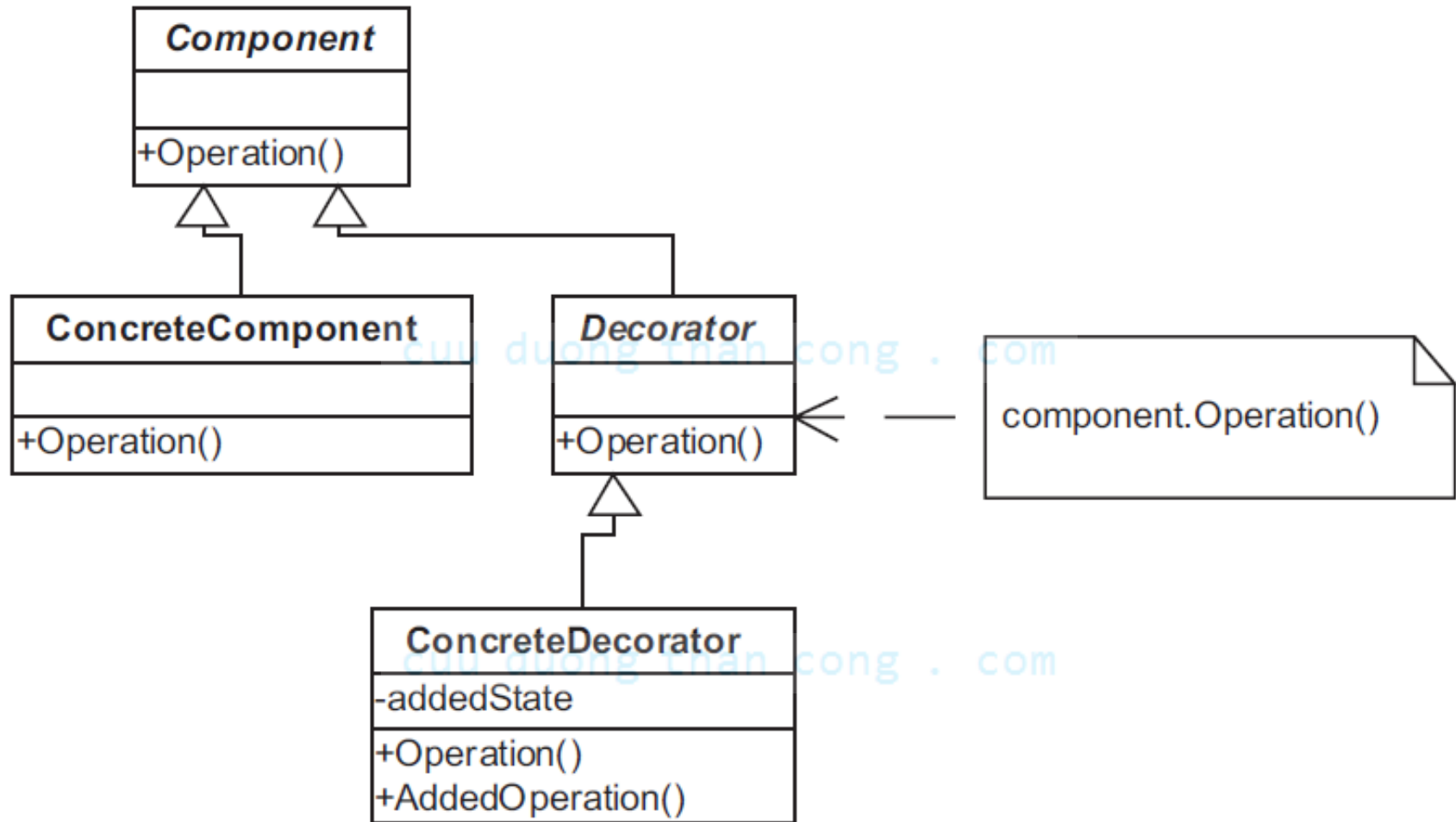


Mẫu Composite

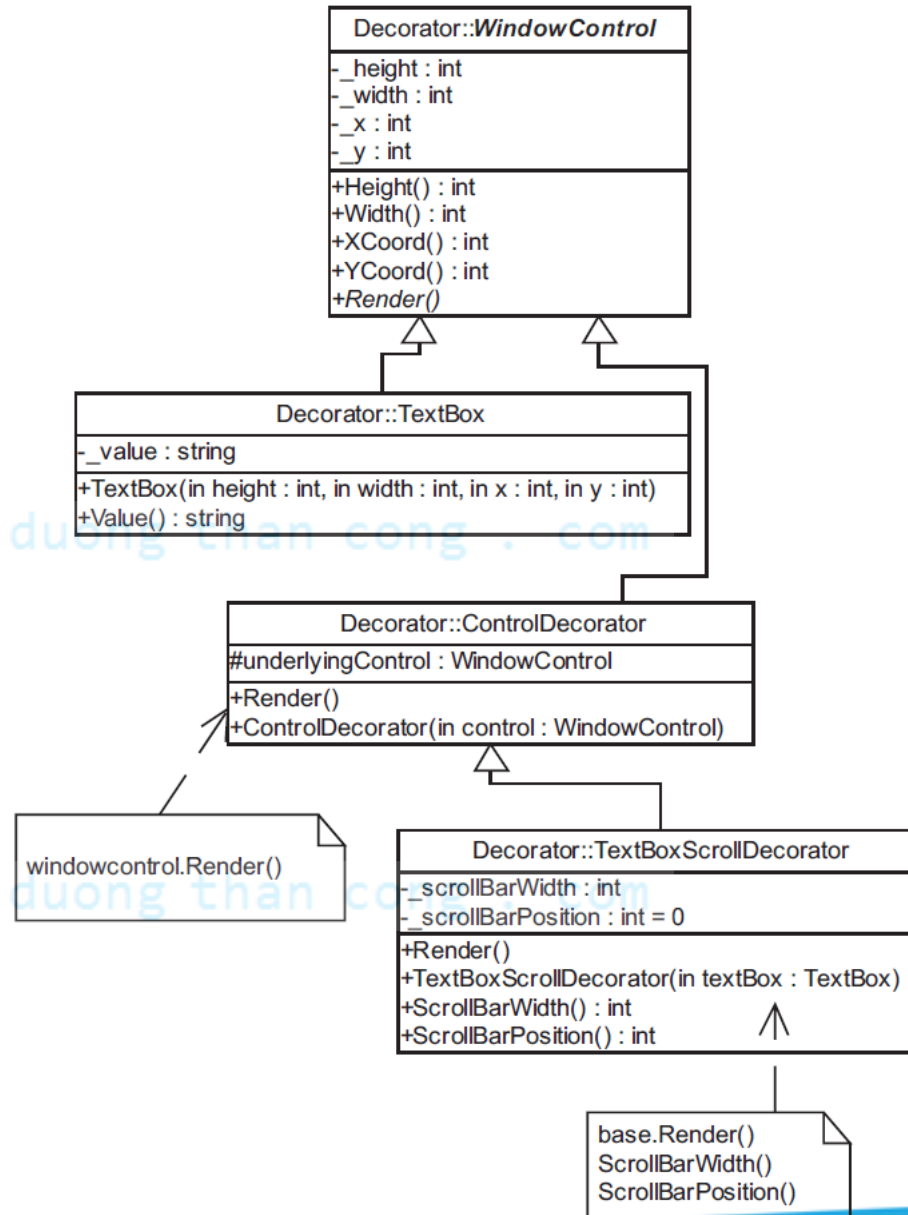
- Thảo luận
 - ▣ Bản chất của mẫu Composite?
 - ▣ Những tình huống sử dụng
 - ▣ So sánh với các mẫu liên quan
 - Chain of Responsibility pattern
 - Command pattern
 - Decorator pattern
 - Flyweight pattern
 - Iterator pattern
 - Visitor pattern



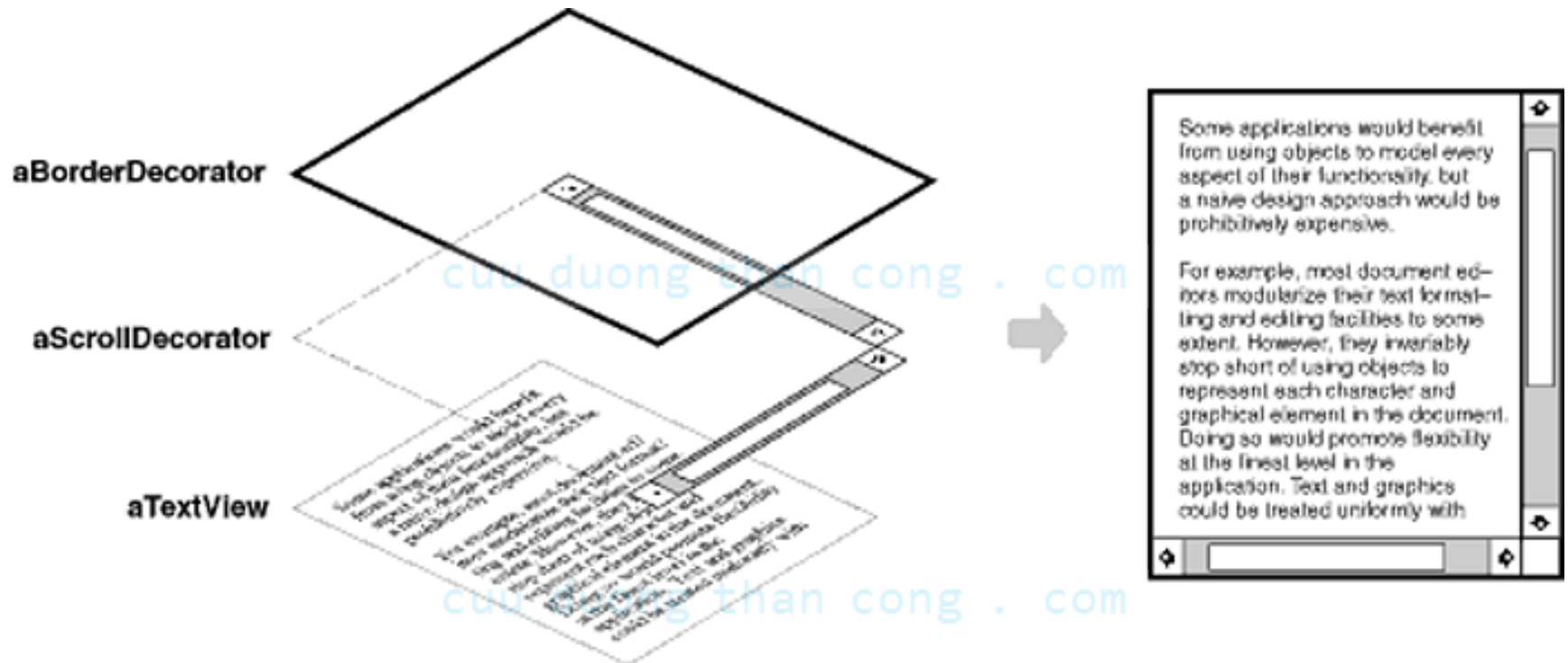
Mẫu Decorator



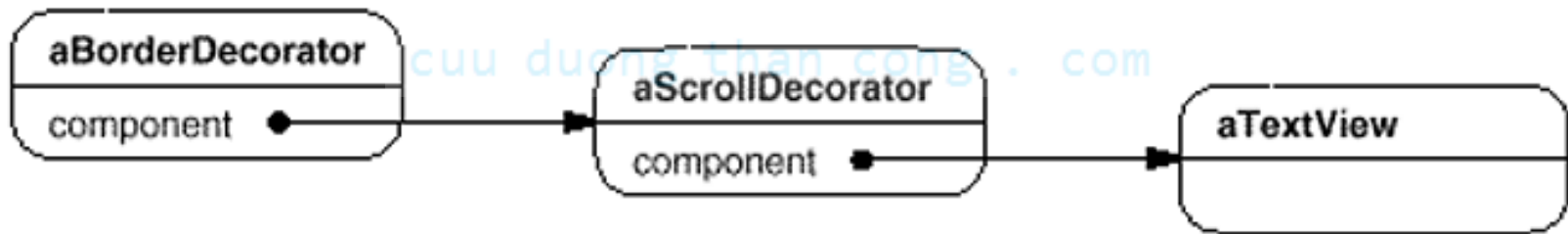
Mẫu Decorator



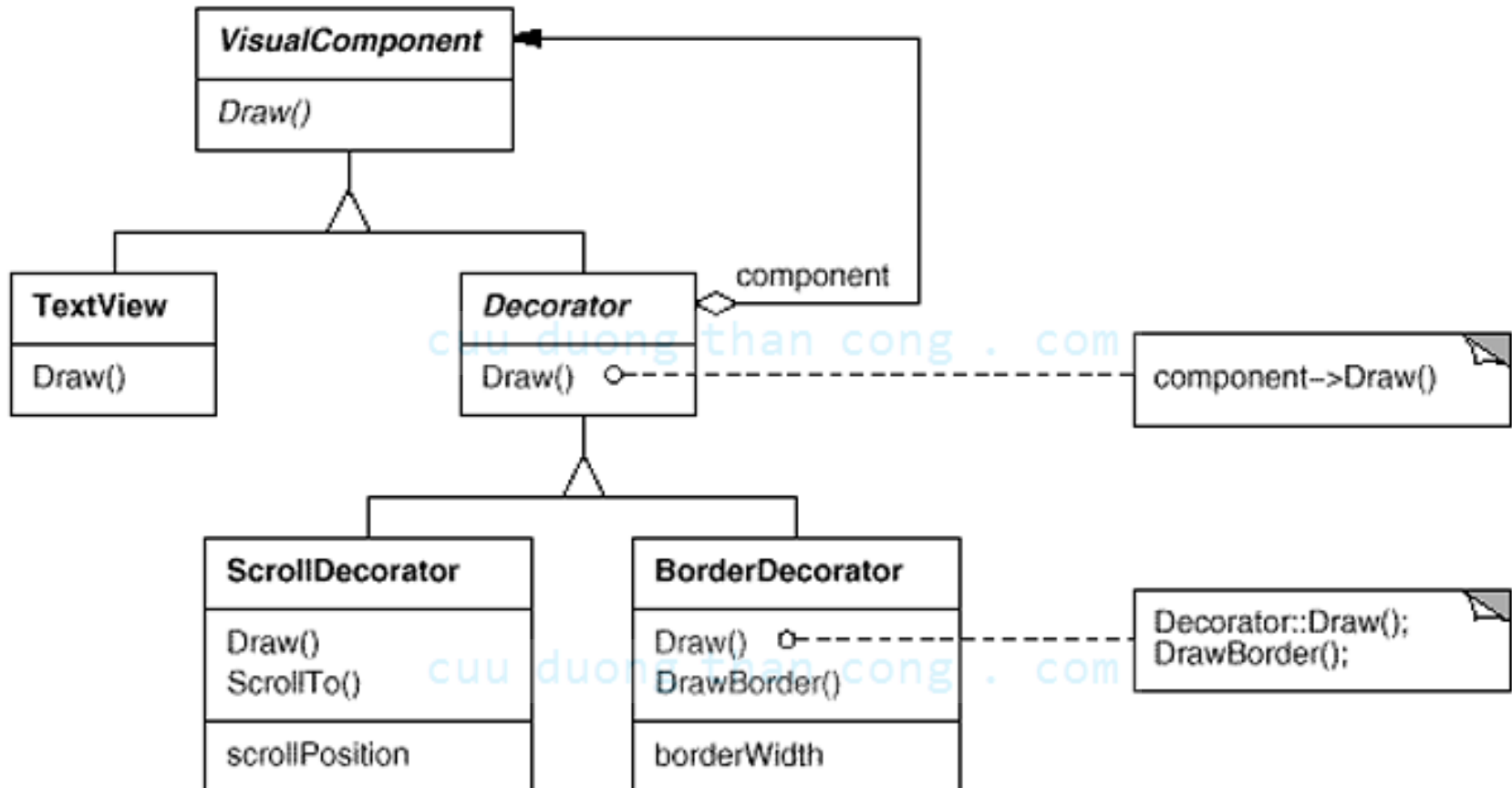
Mẫu Decorator



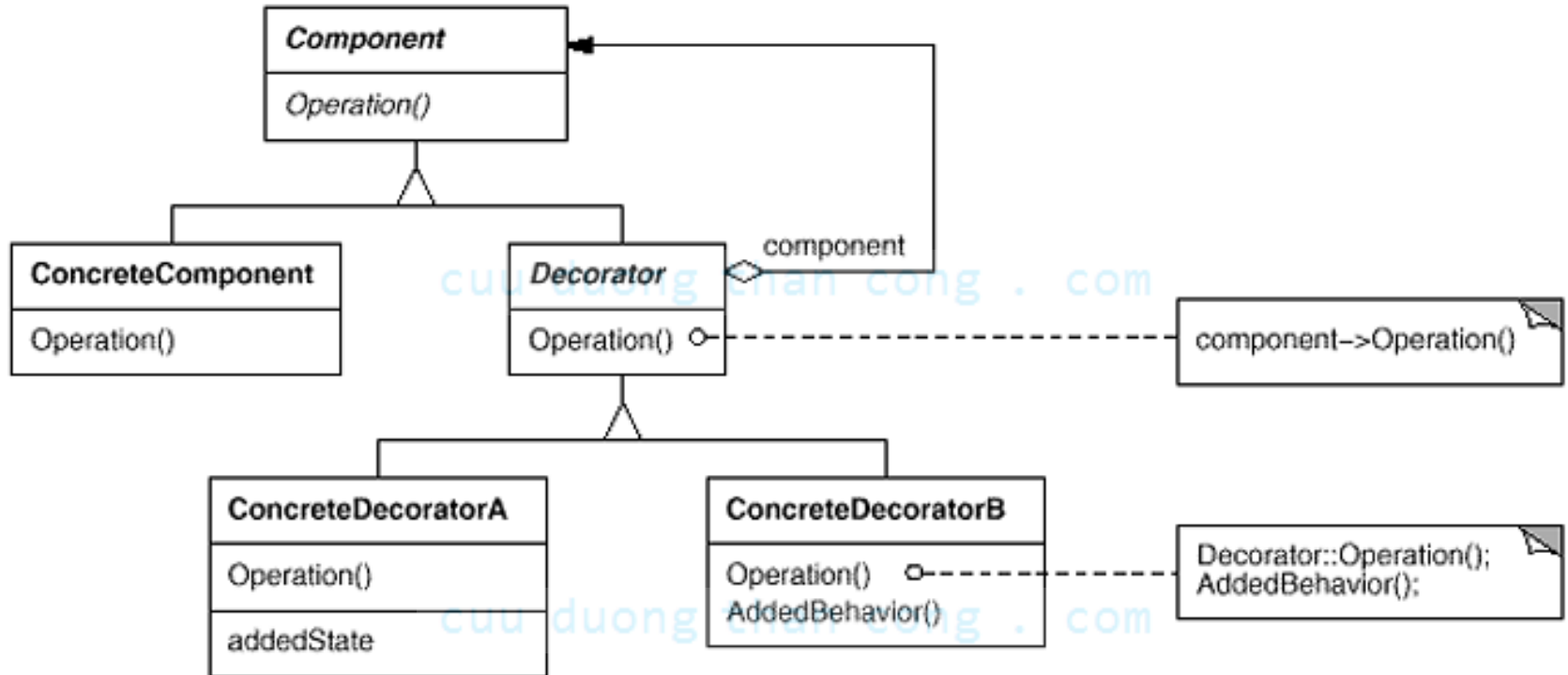
Mẫu Decorator



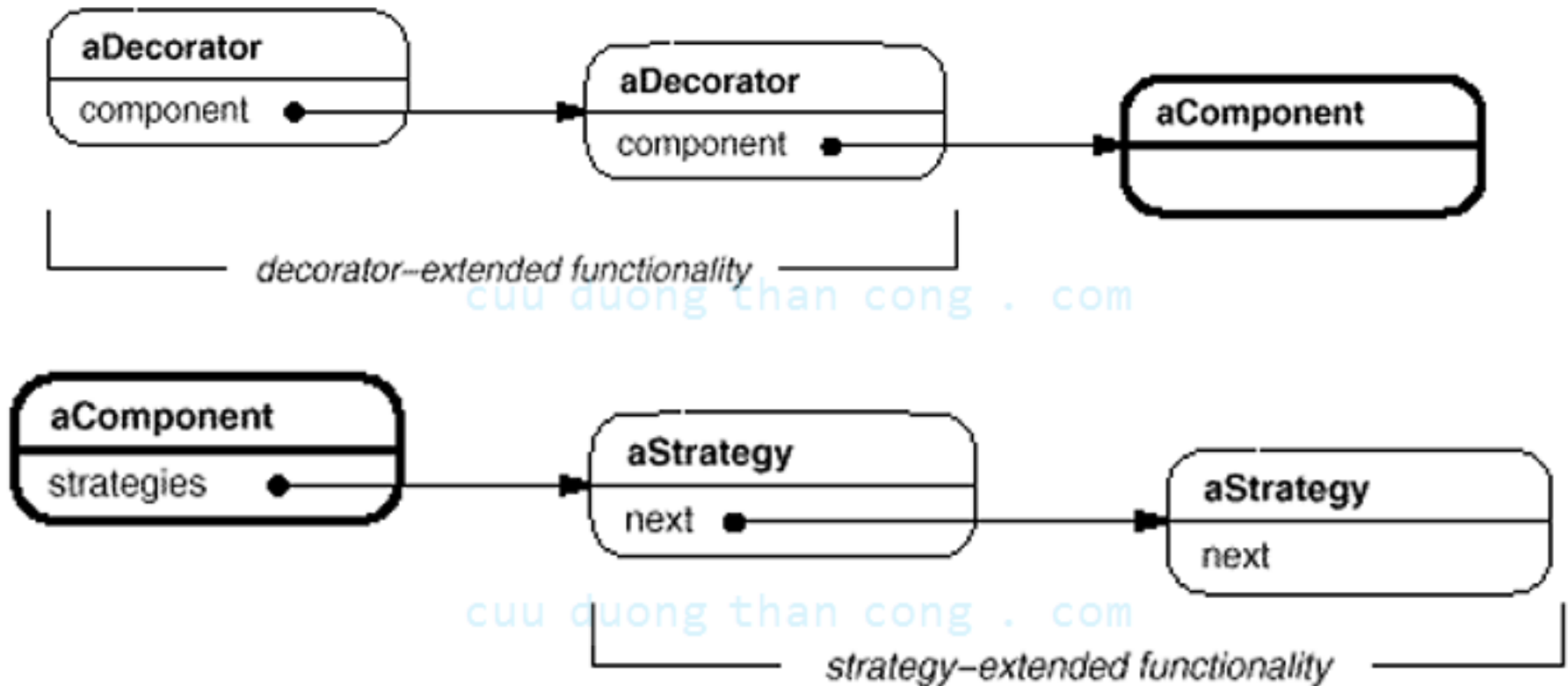
Mẫu Decorator



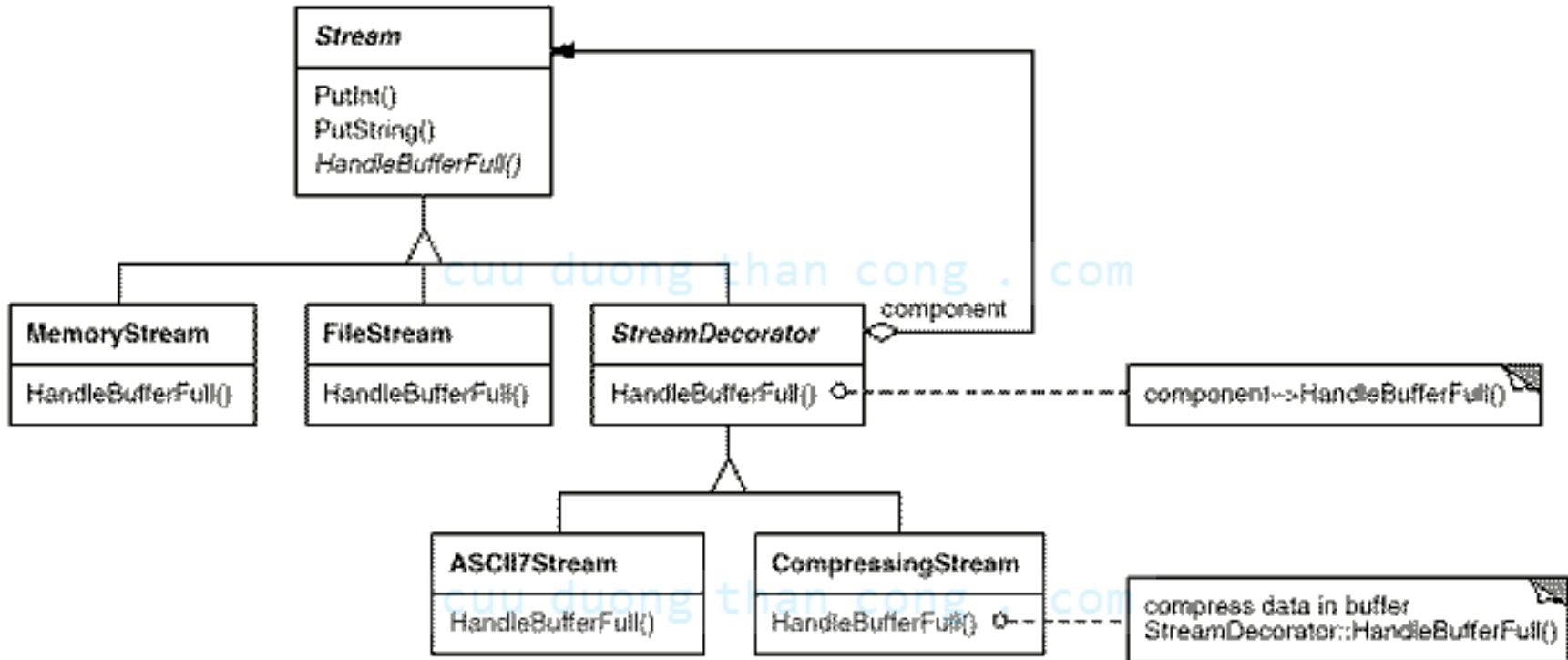
Mẫu Decorator



Mẫu Decorator



Mẫu Decorator



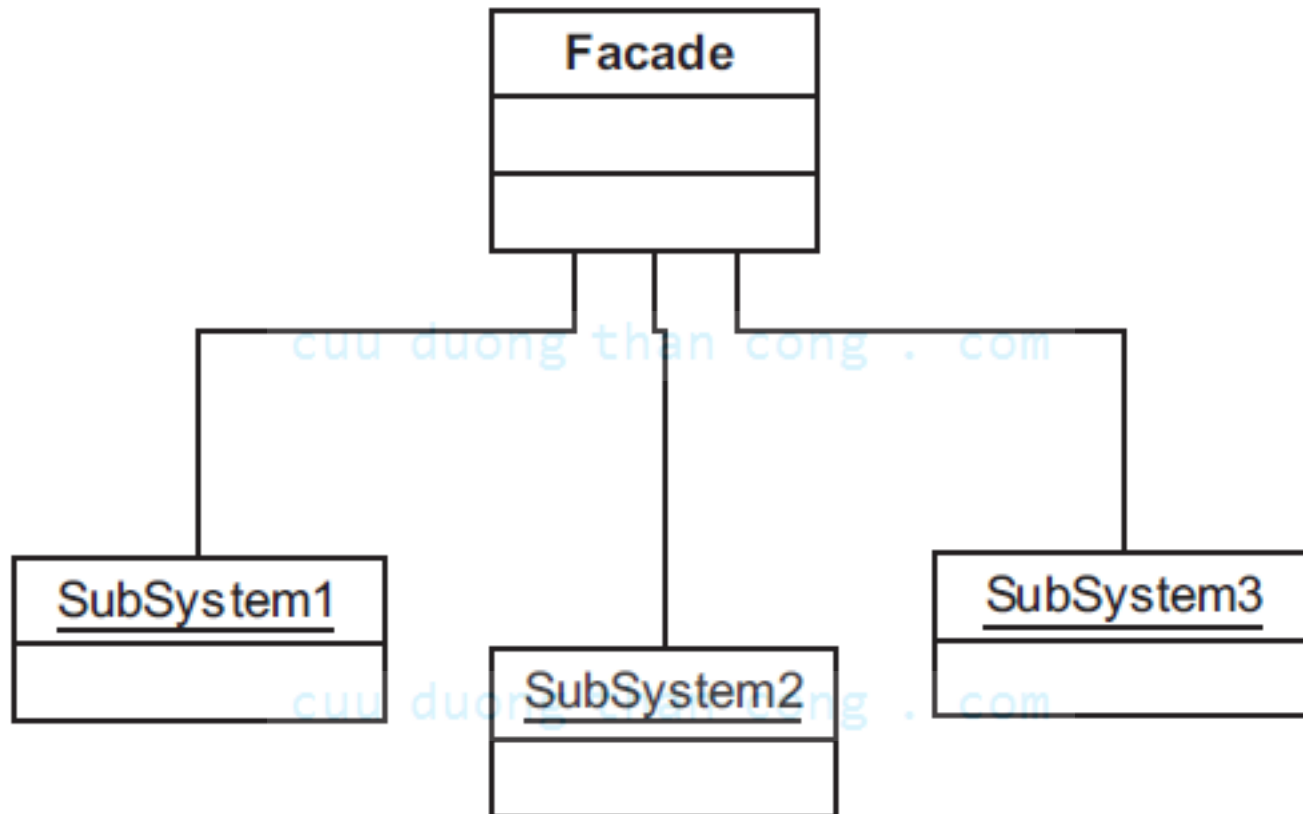
Mẫu Decorator

- Thảo luận
 - ▣ Bản chất của mẫu Decorator?
 - ▣ Những tình huống sử dụng
 - ▣ So sánh với các mẫu liên quan
 - Adapter pattern
 - Composite pattern
 - Visitor pattern

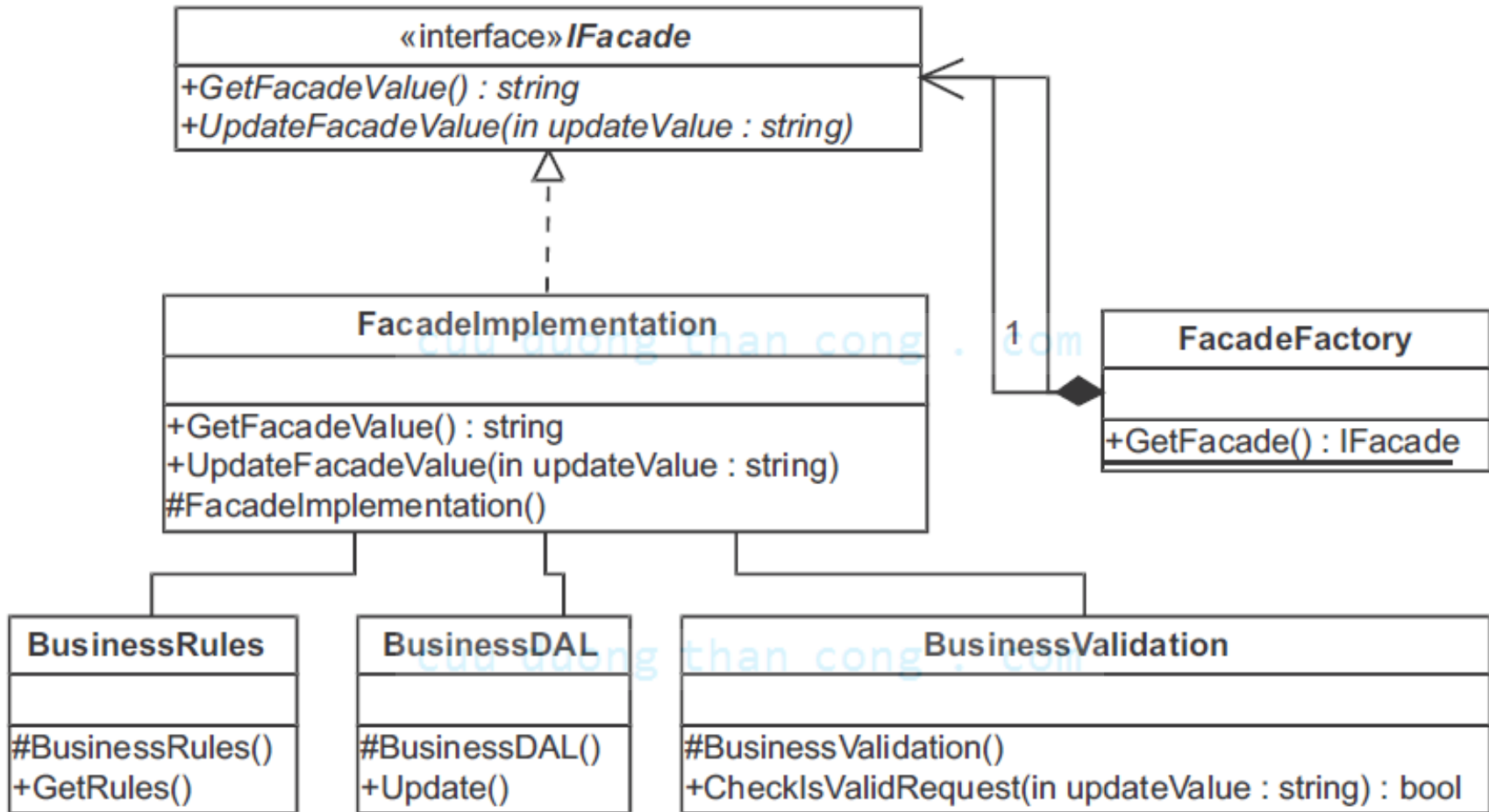


cuu duong than cong . com

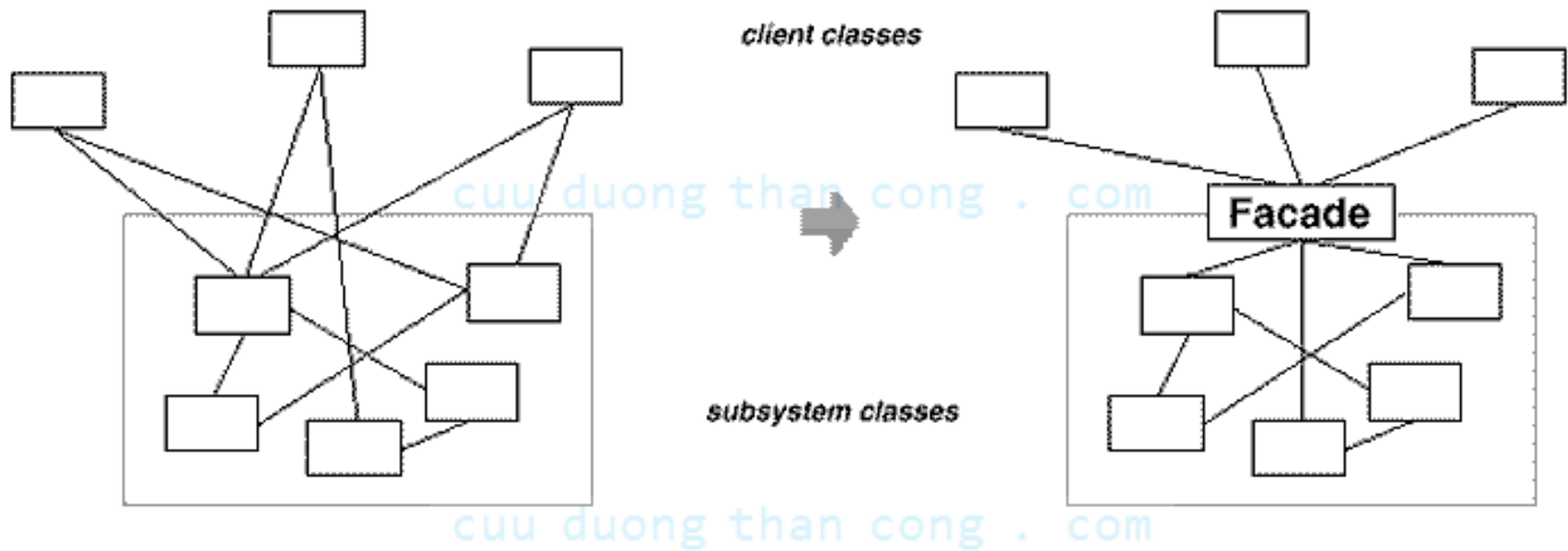
Mẫu Facade



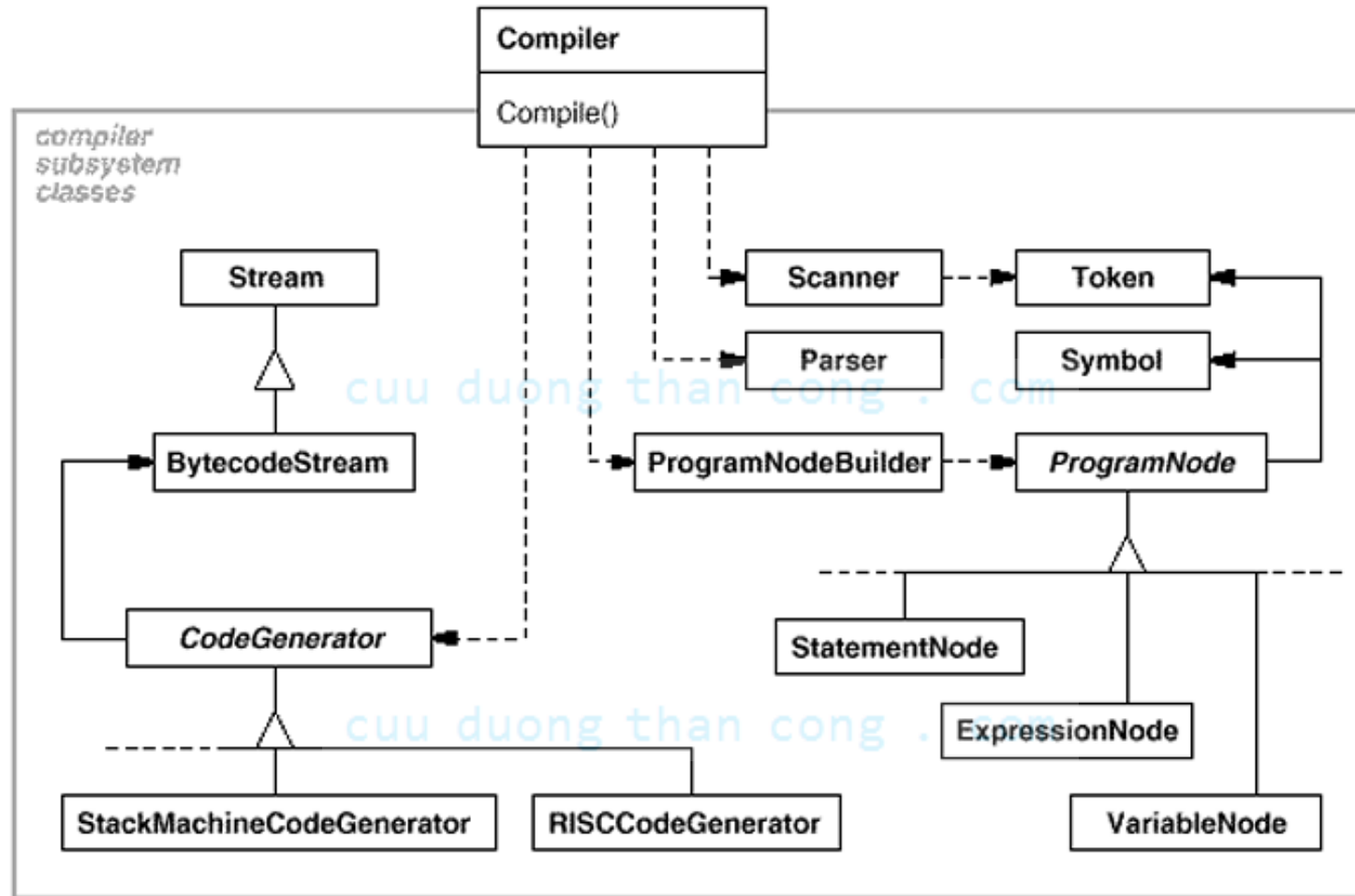
Mẫu Facade



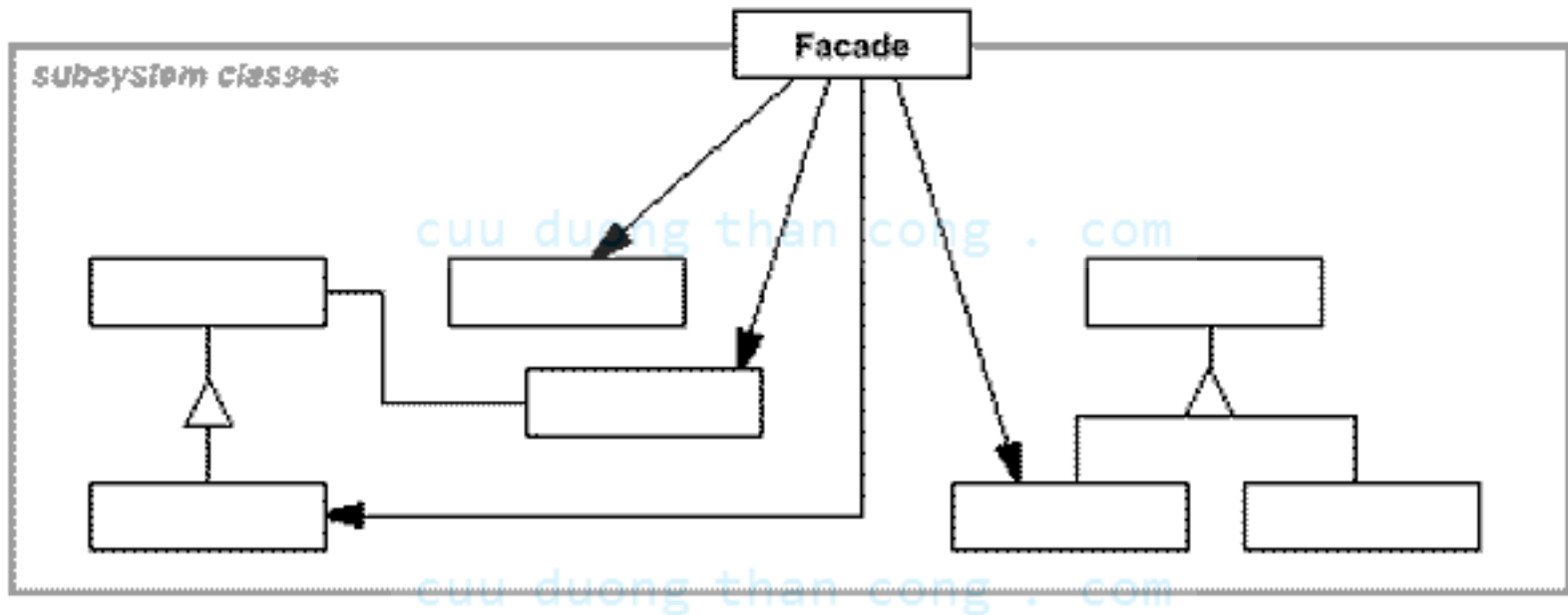
Mẫu Facade



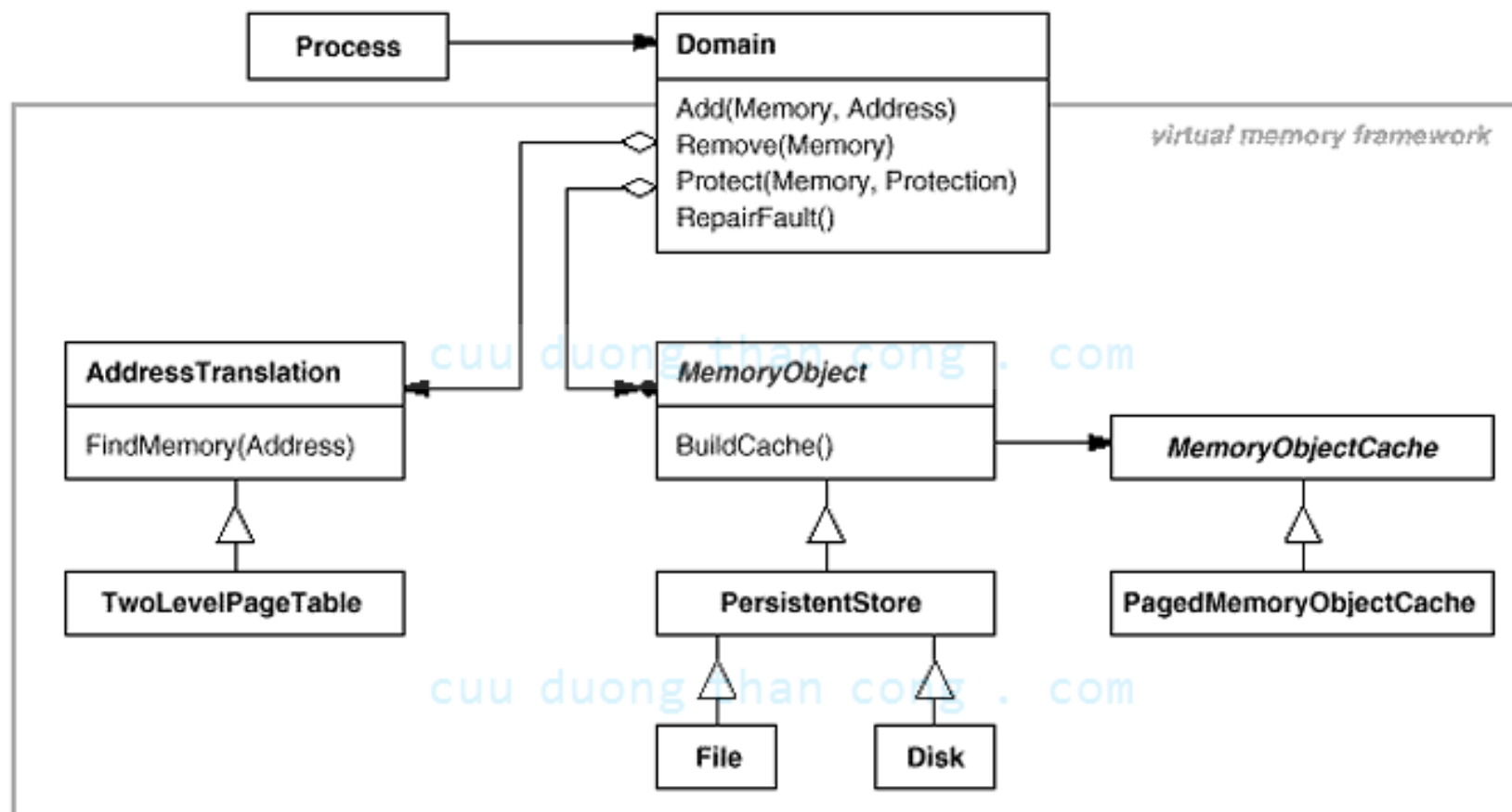
Mẫu Facade



Mẫu Facade



Mẫu Facade



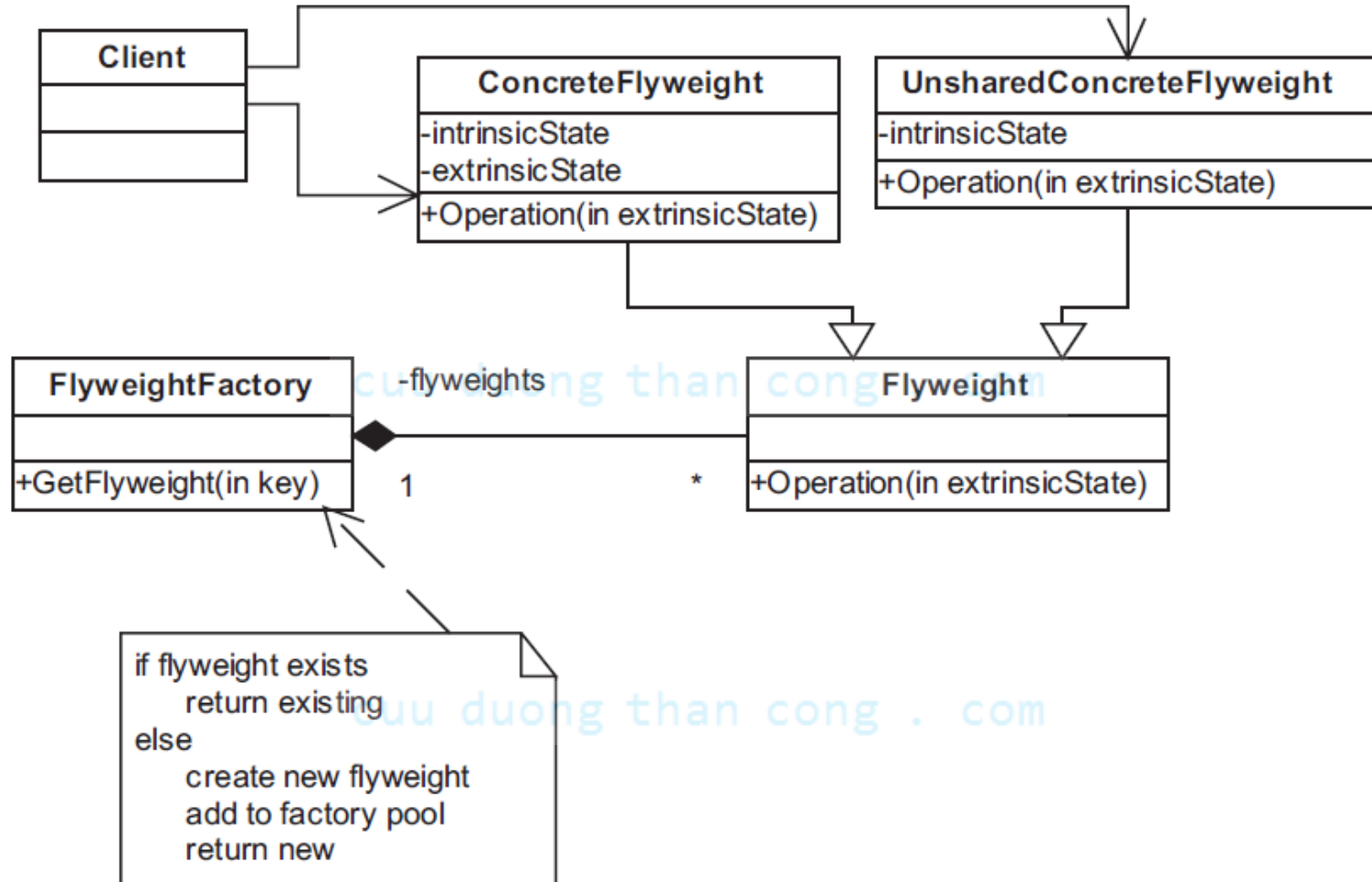
Mẫu Facade

- Thảo luận
 - ▣ Bản chất của mẫu Facade?
 - ▣ Những tình huống sử dụng
 - ▣ So sánh với các mẫu liên quan
 - Adapter pattern
 - Bridge pattern
 - Proxy pattern

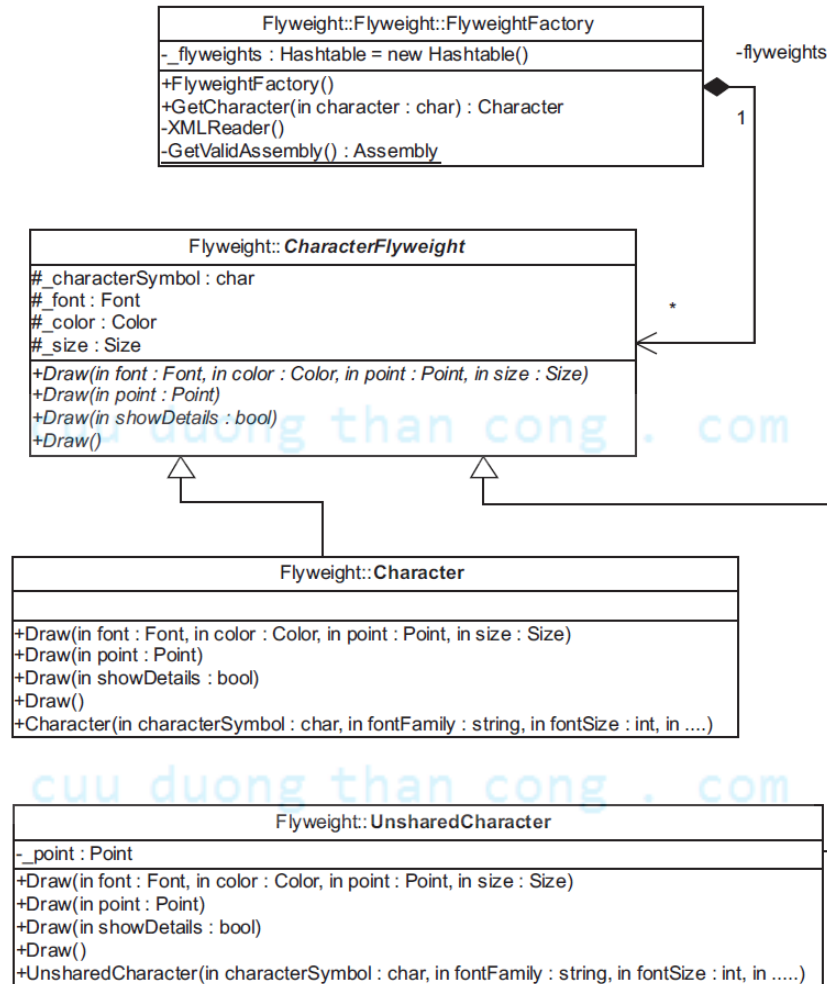


cuu duong than cong . com

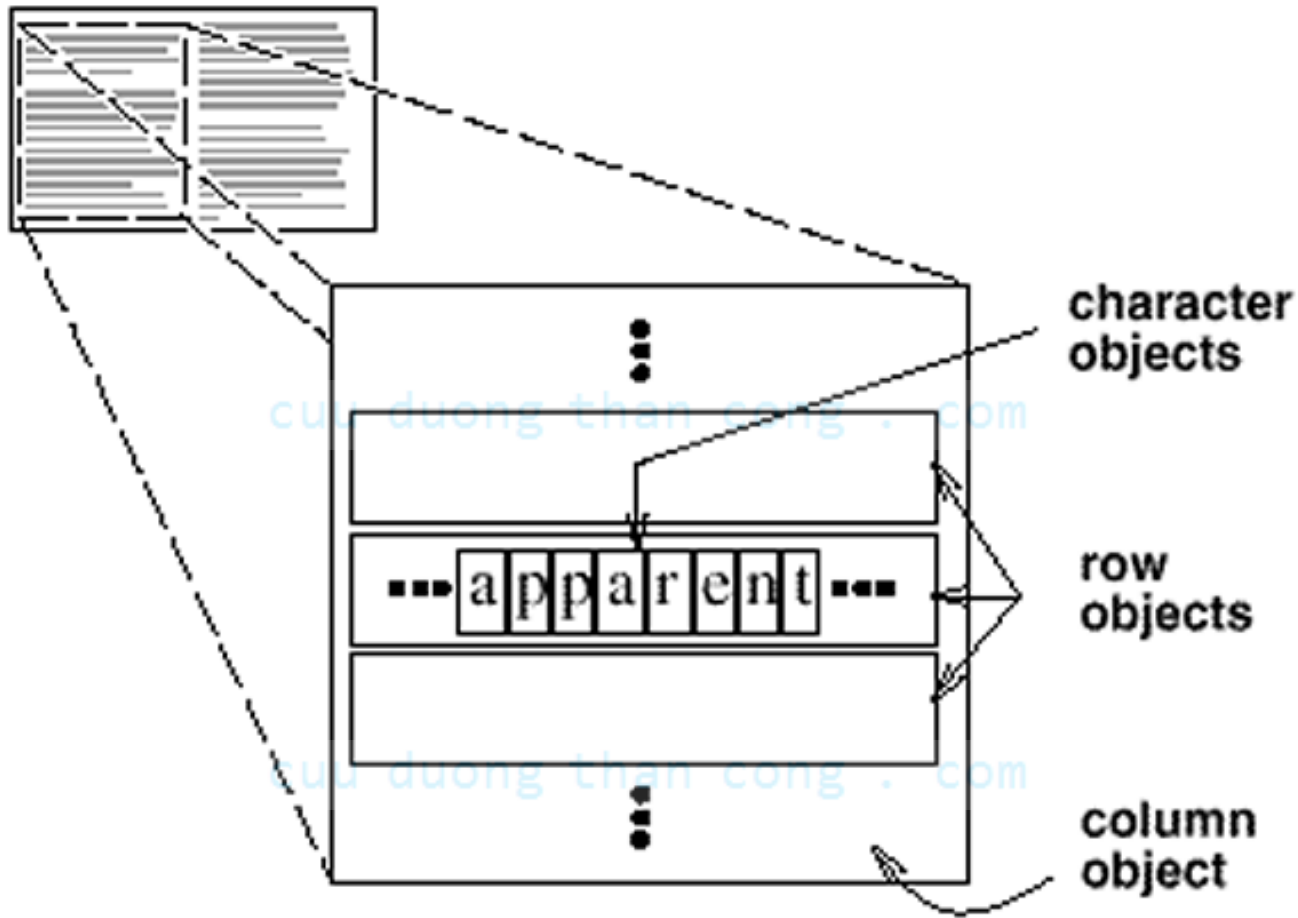
Mẫu Flyweight



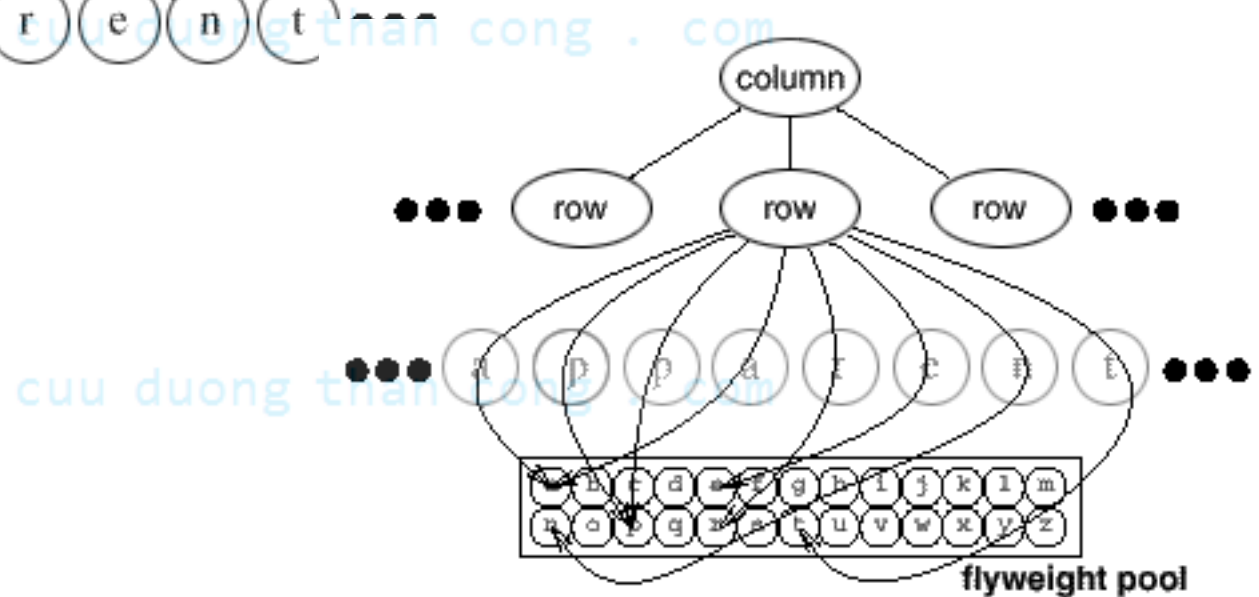
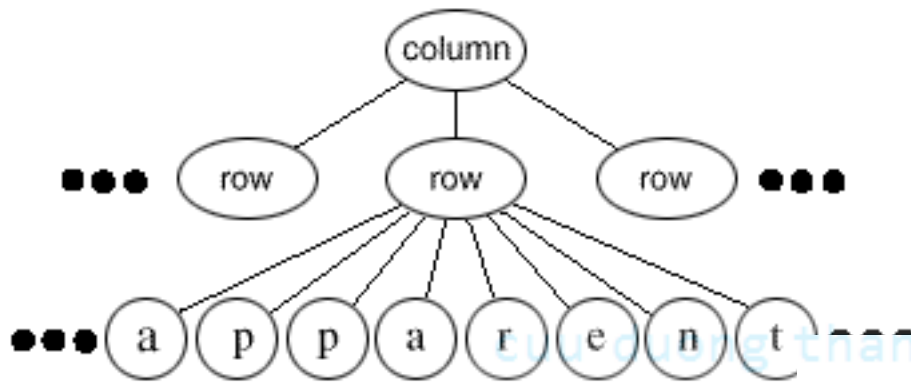
Mẫu Flyweight



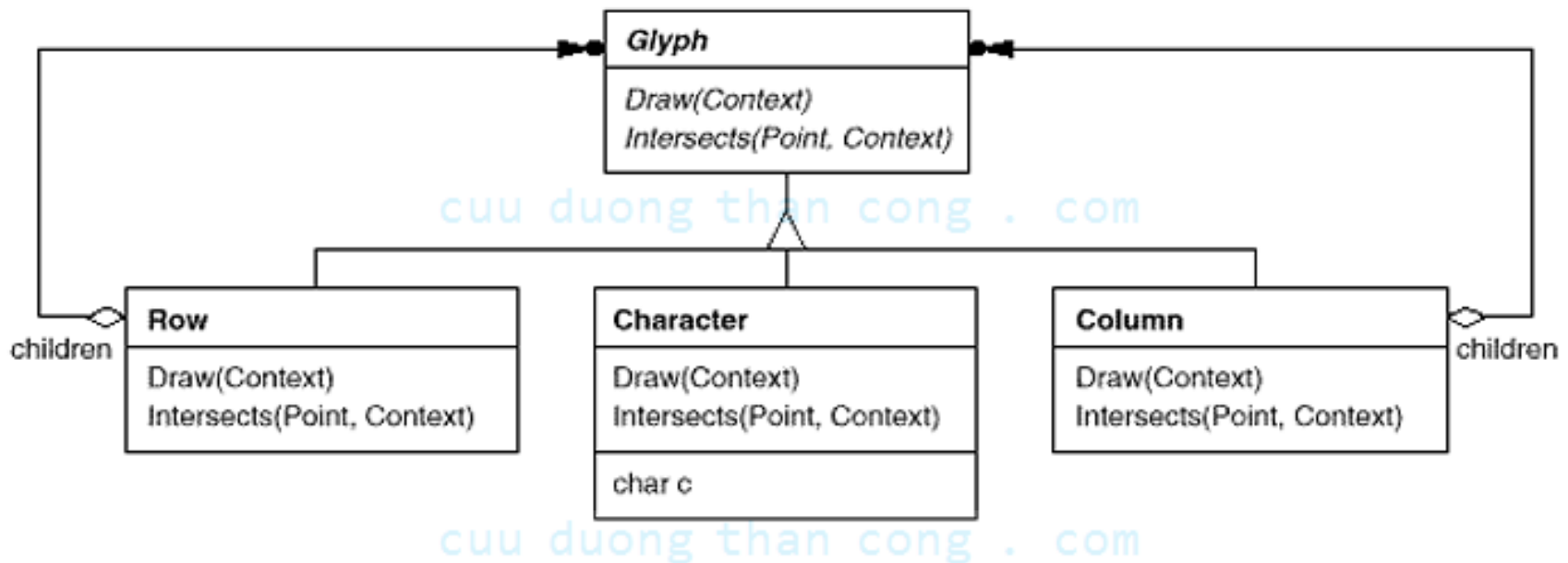
Mẫu Flyweight



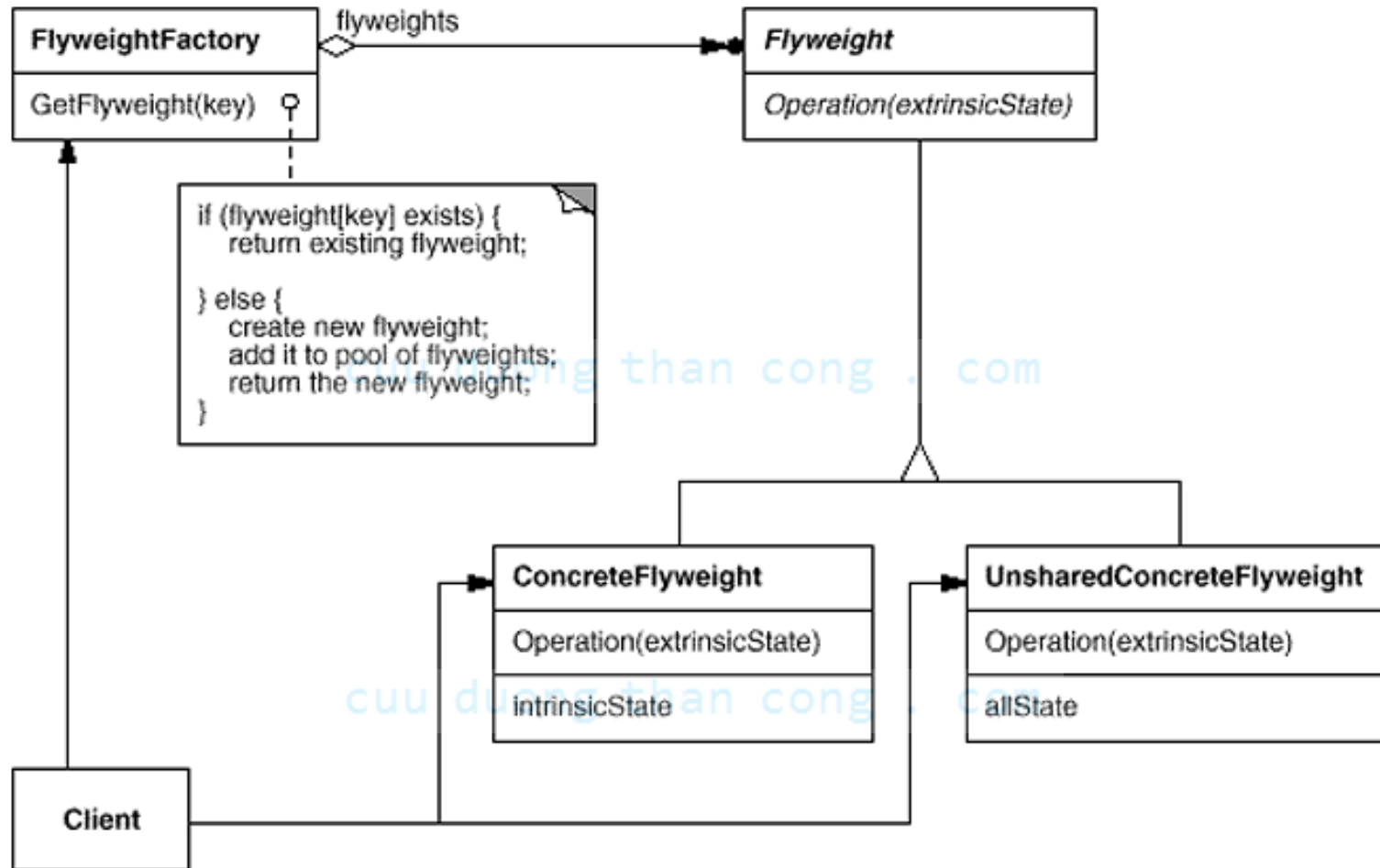
Mẫu Flyweight



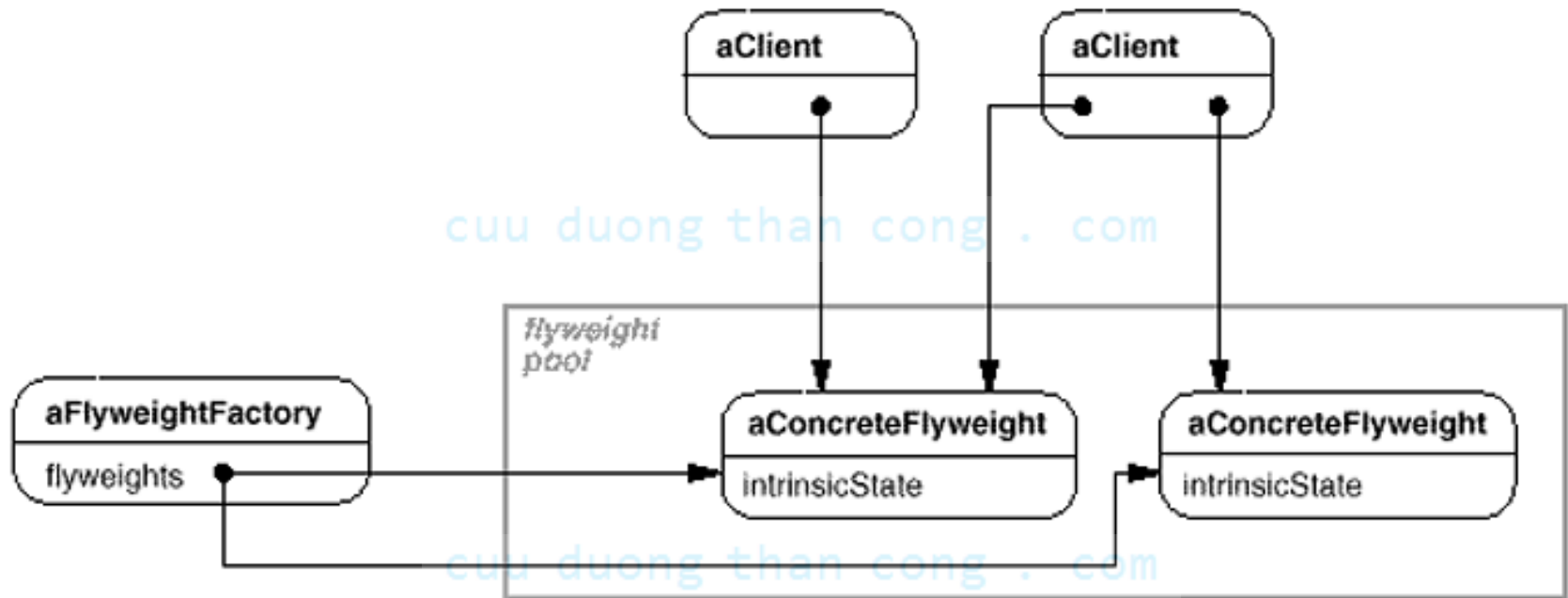
Mẫu Flyweight



Mẫu Flyweight



Mẫu Flyweight

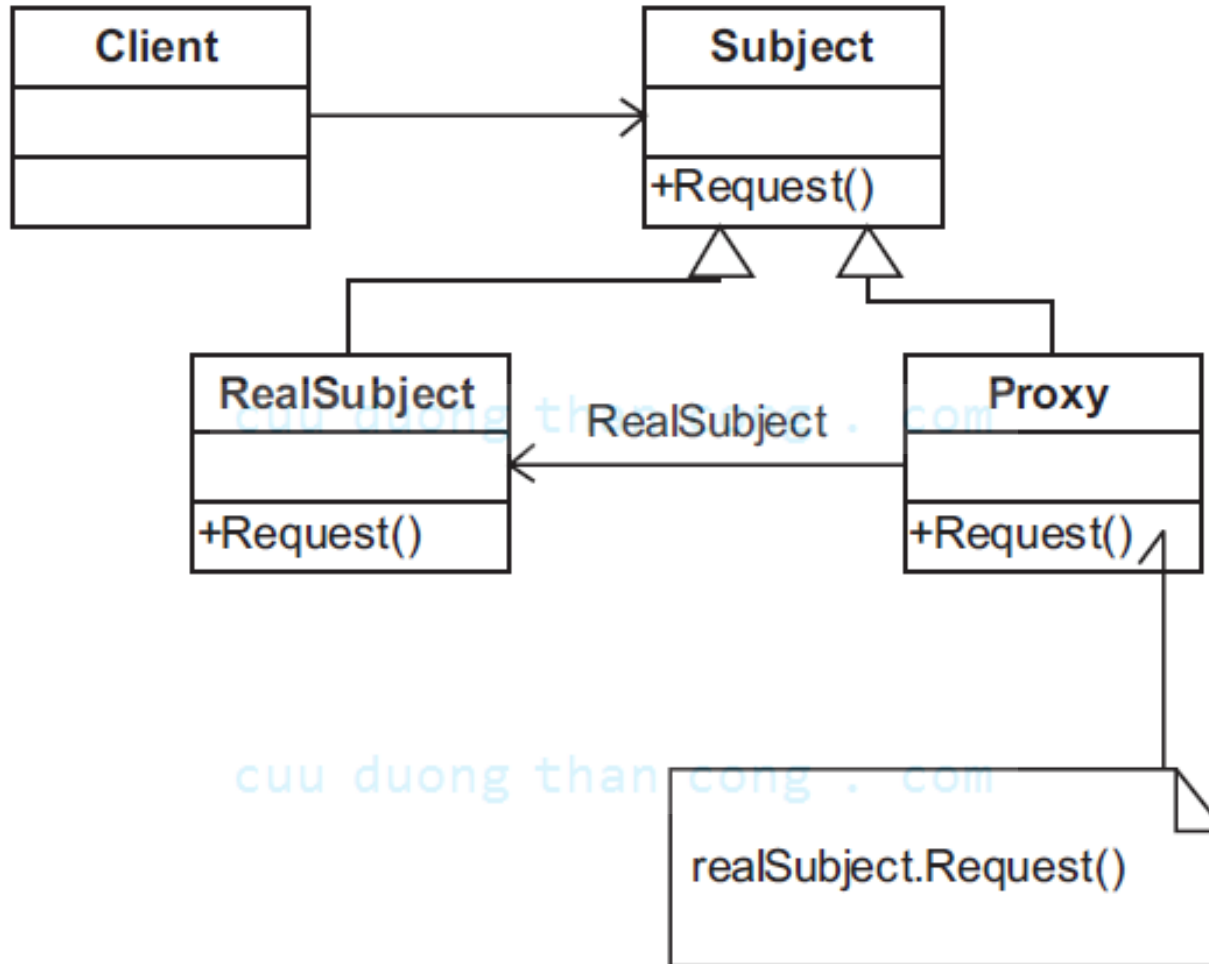


Mẫu Flyweight

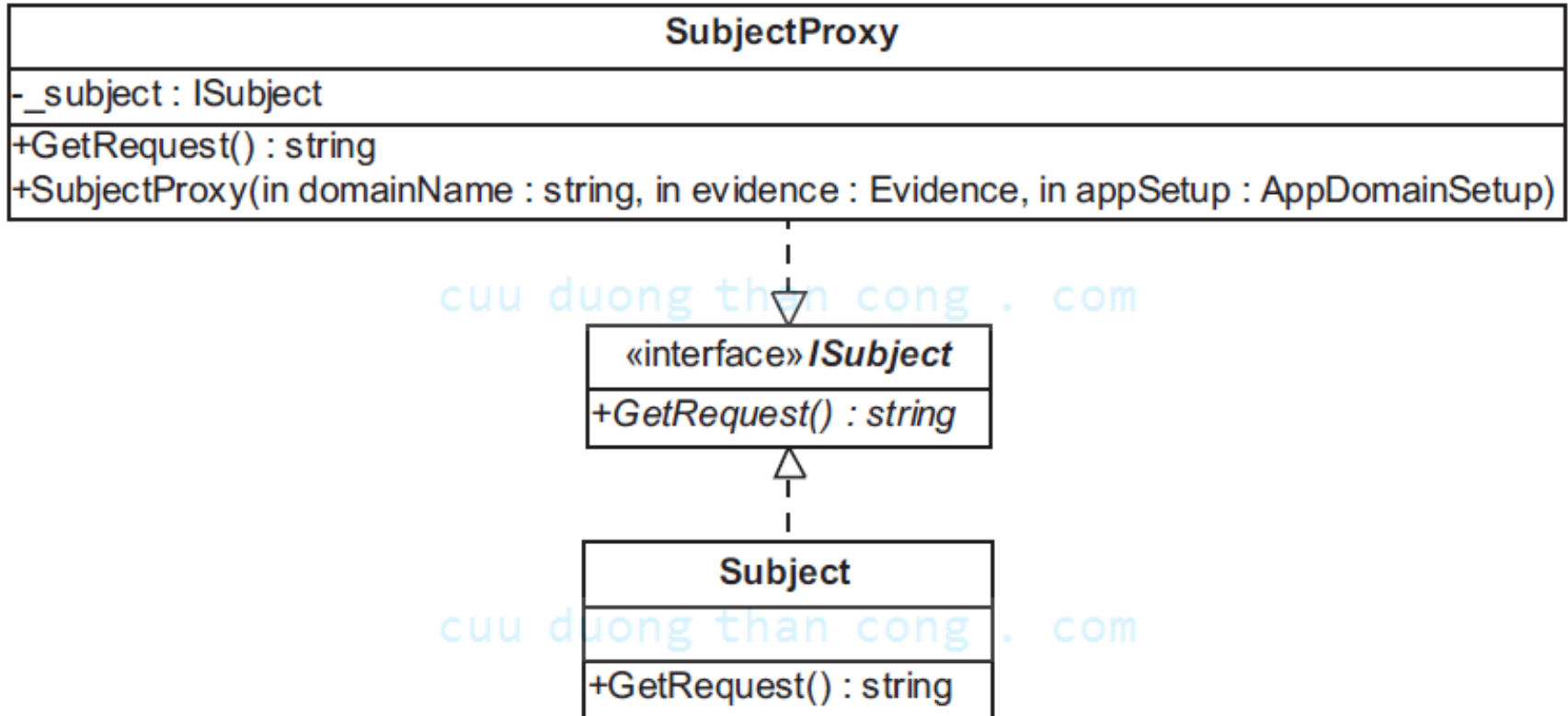
- Thảo luận
 - ▣ Bản chất của mẫu Flyweight?
 - ▣ Những tình huống sử dụng
 - ▣ So sánh với các mẫu liên quan
 - Composite pattern
 - Factory pattern
 - Interpreter pattern
 - State pattern
 - Strategy pattern
 - Template pattern



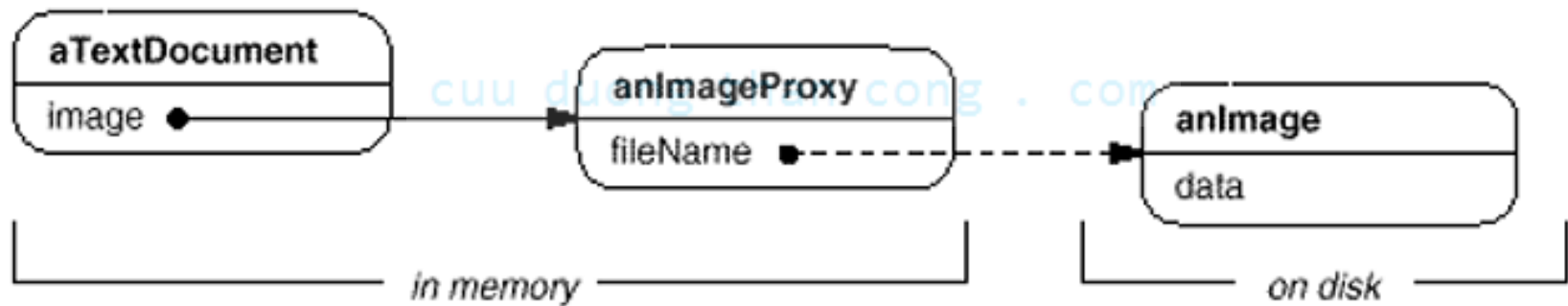
Mẫu Proxy



Mẫu Proxy

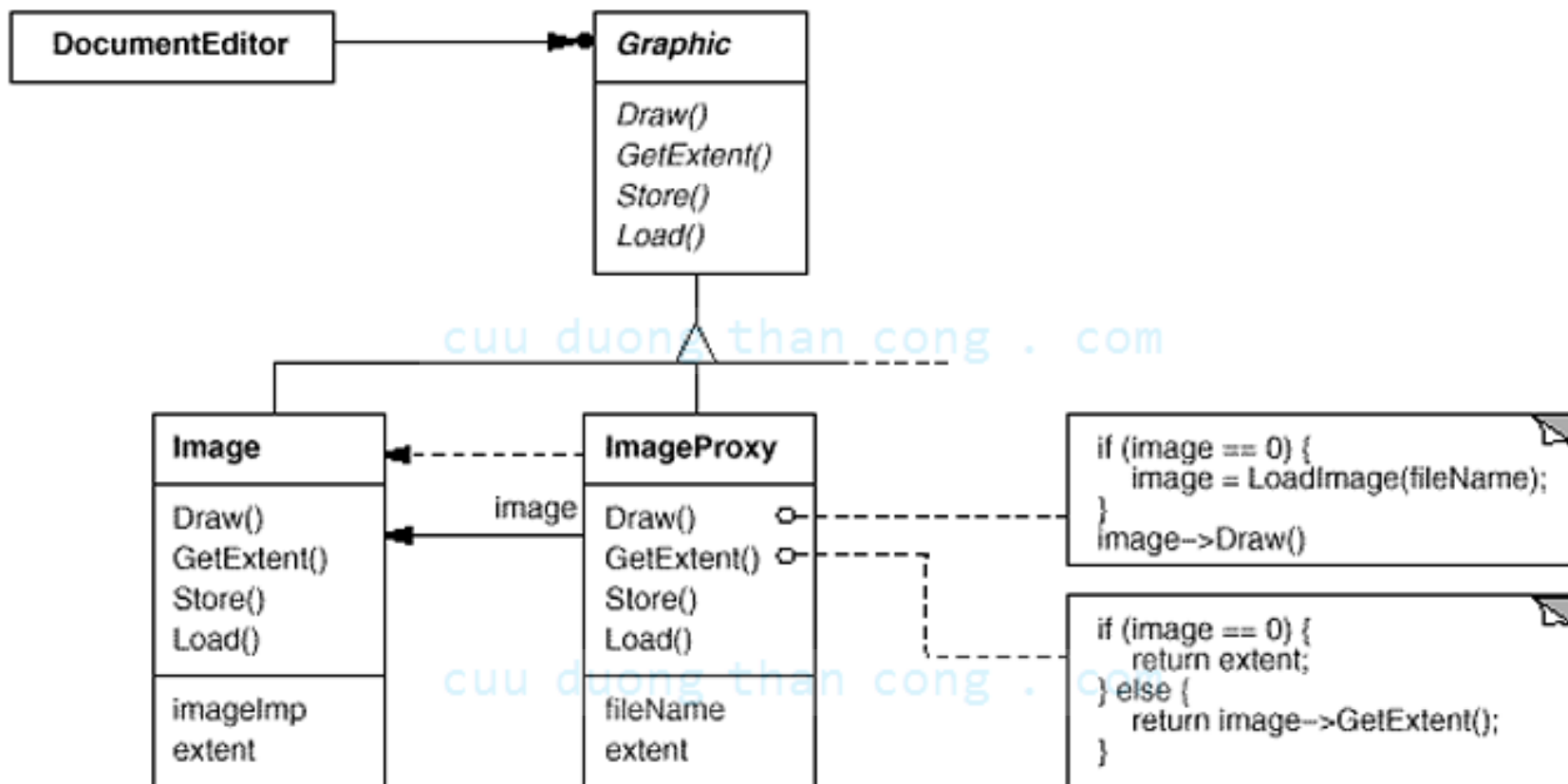


Mẫu Proxy

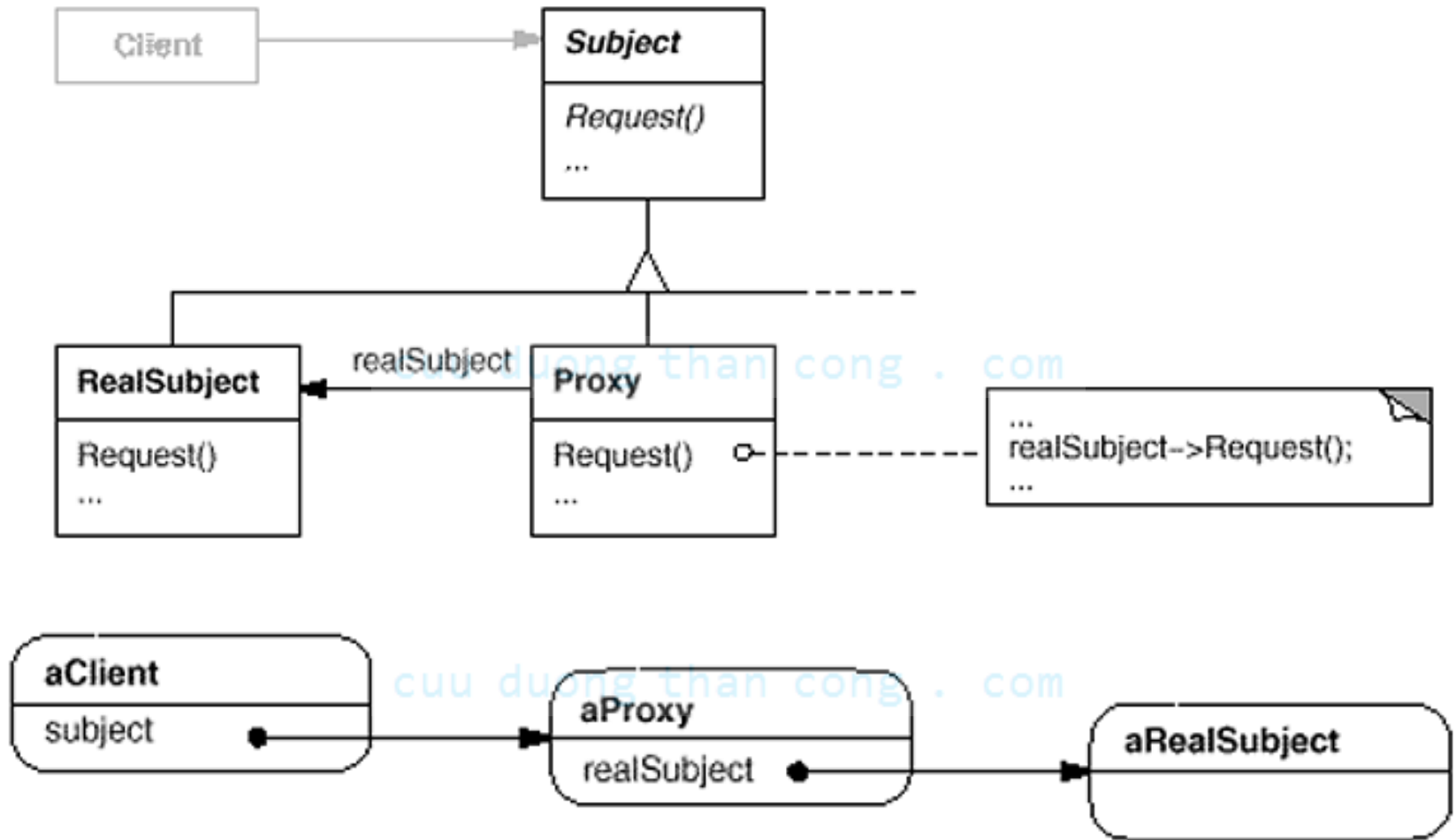


cuu duong than cong . com

Mẫu Proxy



Mẫu Proxy



Mẫu Proxy

- Thảo luận
 - ▣ Bản chất của mẫu Proxy?
 - ▣ Những tình huống sử dụng
 - ▣ So sánh với các mẫu liên quan
 - Adapter pattern
 - Bridge pattern
 - Facade pattern



cuu duong than cong . com