

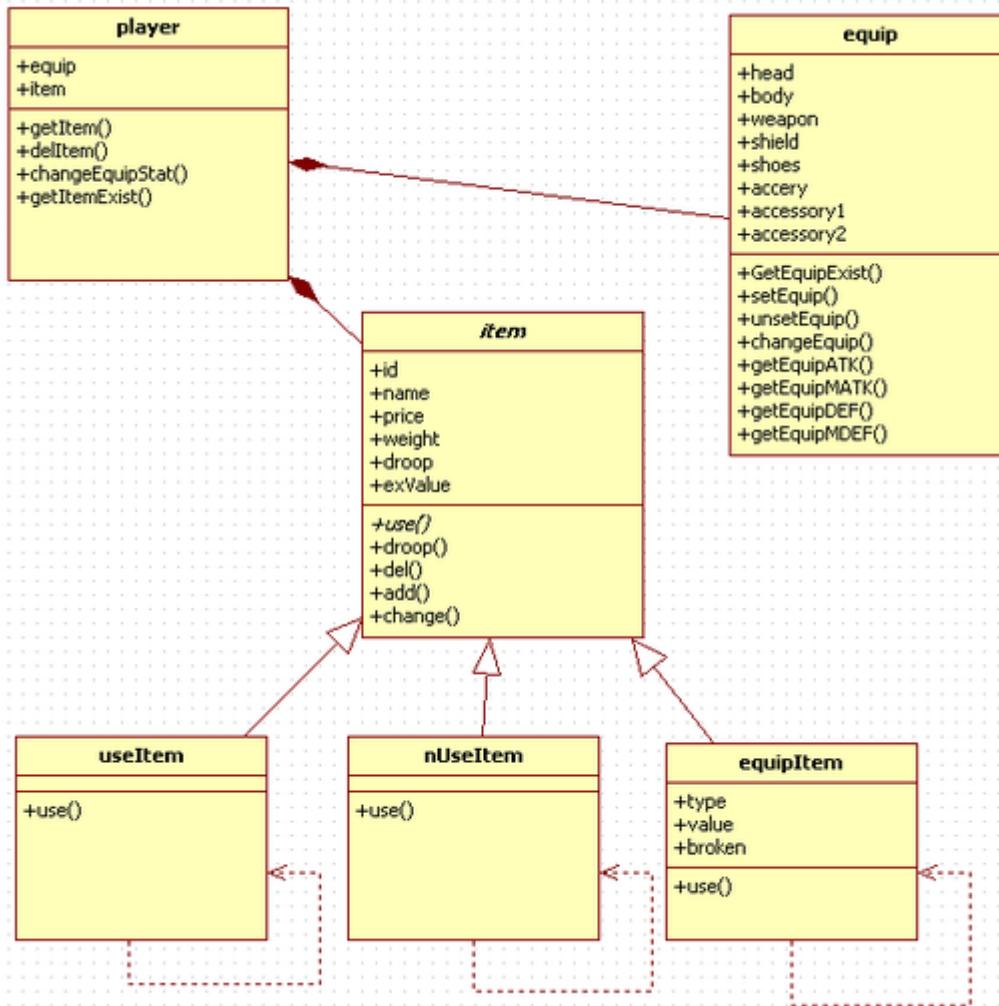
# UML

UML(Unified Modeling Language)

Sequence Diagram  
가

Class Diagram  
가

UML  
Class Diagram, Usecase Diagram,  
가



UML

StarUML NS

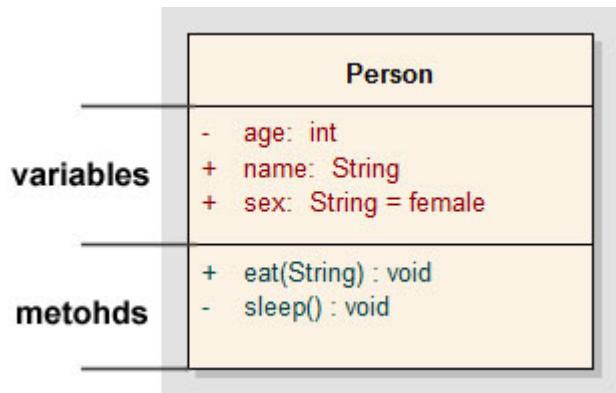
StarUML

가

- <http://sourceforge.net/projects/staruml/files/staruml/5.0/>

## Class Diagram

UML 가



variable      type      가      . (      ActionScript 3.0      ,      )  
 method

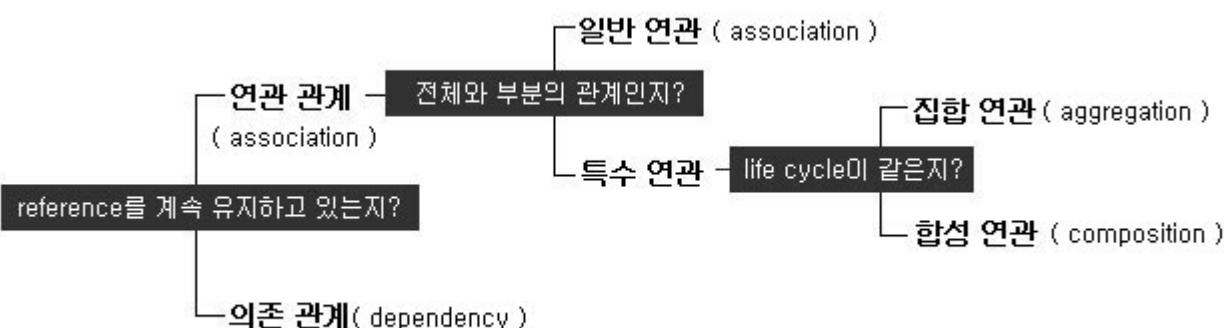
|             |  |
|-------------|--|
|             |  |
| + public    |  |
| - private   |  |
| # protected |  |

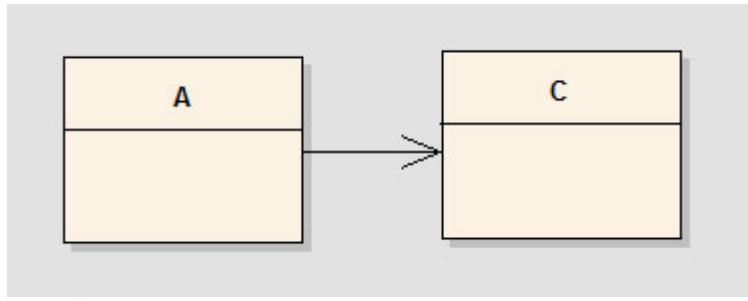
가

suppress

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```

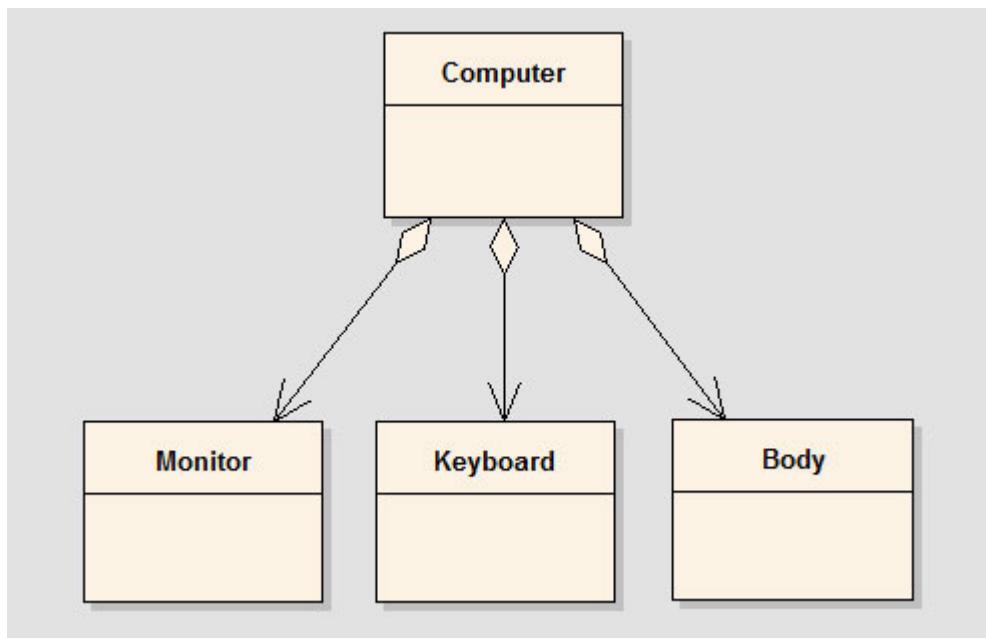
package classes
{
    public class A
    {
        private var c:C;

        public function A()
        {
            // 연관 : 클래스 C 에 대한 reference를 계속 유지하고 있음
            this.c = new C();
        }

        private function methodA():void
        {
            this.c.methodC();
        }
    }
}
  
```

aggregation, composition life cycle( , )

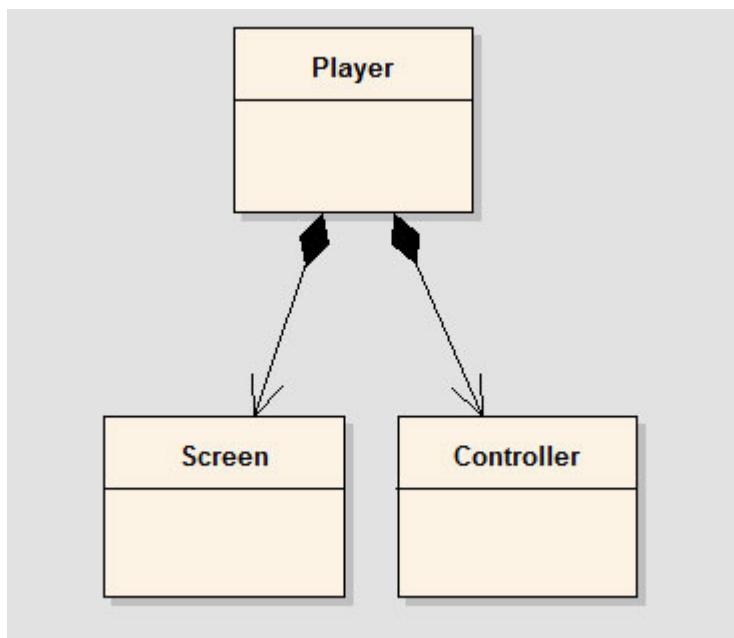
### aggregation



```
package classes
{
    public class Computer
    {
        private var monitor:Monitor;
        private var body:Body;
        private var keyboard:Keyboard;

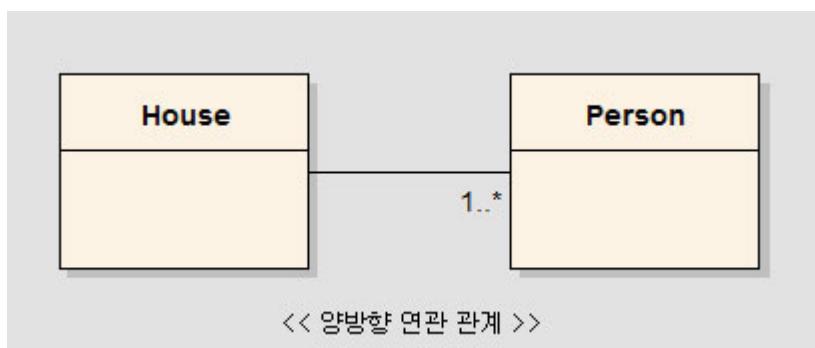
        public function Computer(_monitor:Monitor, _body:Body, _keyboard:Keyboard)
        {
            // 집합 연관 : 부분과 전체의 관계
            // 부분이 되는 객체를 외부에서 생성하여 넘겨받음
            // 따라서 computer 클래스가 없어져도 부분이 되는 객체들은 사라지지 않음
            this.monitor = _monitor;
            this.body = _body;
            this.keyboard = _keyboard;
        }
    }
}
```

## composition



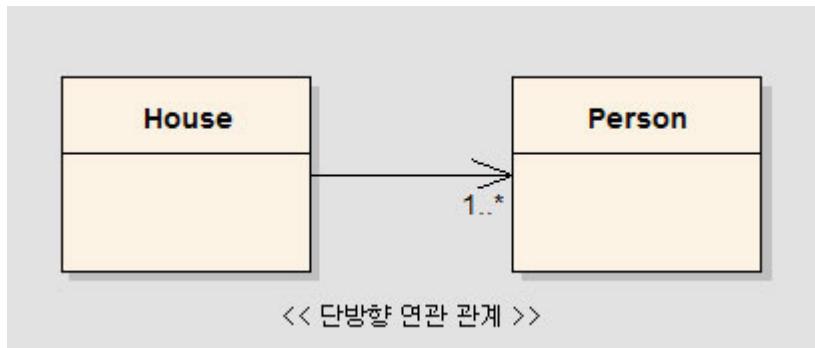
```
package classes
{
    public class Player
    {
        private var screen:Screen;
        private var controller:Controller;

        public function Player()
        {
            // 합성 : 집합 관계 중에서도 강한 집합체의 의미를 가짐
            // 부분을 이루는 객체가 없이는 전체가 아무 의미를 갖지 못함
            // Player 클래스가 사라져 버리면 내부에서 생성된 screen, controller도 같이 사라짐
            this.screen = new Screen();
            this.controller = new Controller();
        }
    }
}
```

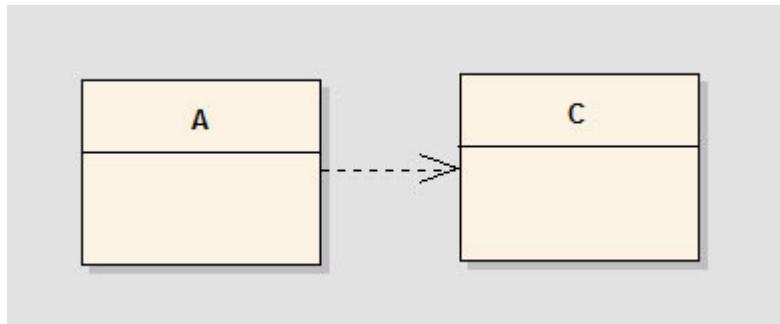


UML  
House

## House Person



House Person , Person House Person 가 , Person  
House . House 가 .



```
package classes
{
    public class A
    {
        private var c:C;

        public function A()
        {

        }

        private function methodA():void
        {
            // 의존 관계 : 이 메소드 내부에서만 c의 레퍼런스를 유지함
            // 함수 실행이 끝나면 c 의 참조도 사라짐
            var objC:C = new C();
            c.methodC();
        }
    }
}
```

StarUML 5.0 가  
UML - ( )  
UML:

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