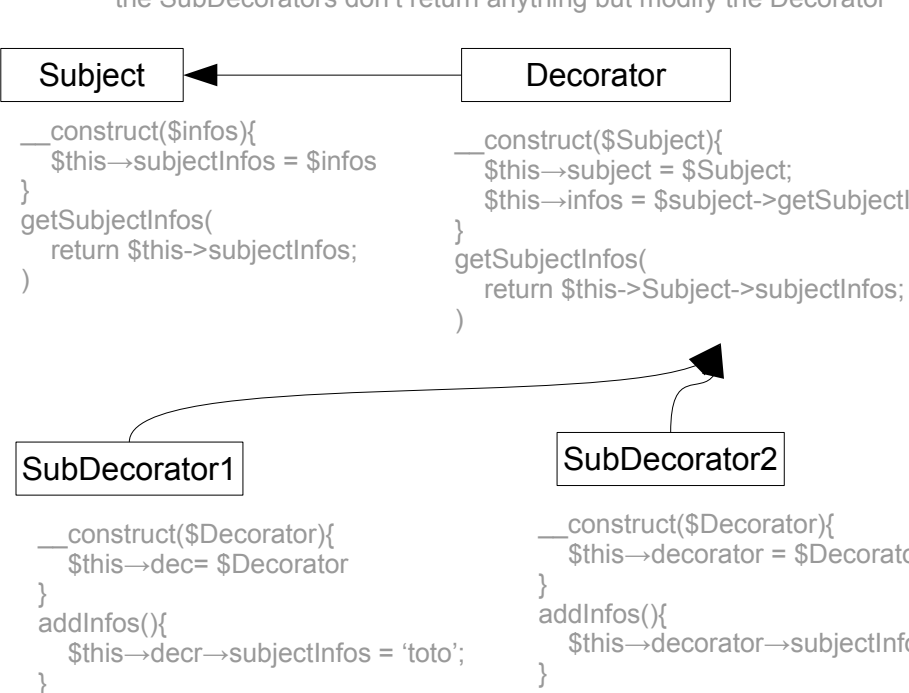


subject is left untouched
the Decorator holds all the infos and gets modified
the SubDecorators don't return anything but modify the Decorator



DECORATOR

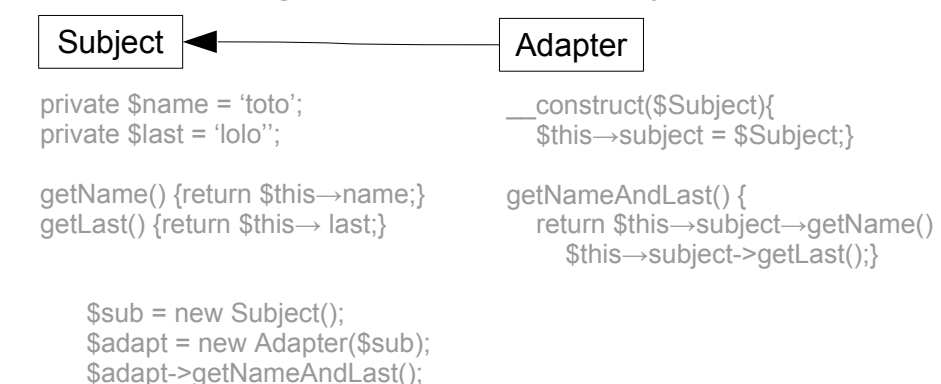
```
$subject = new Subject('infos');
$decorator = new Decorator($subject);
$subDec1 = new SubDecorator1($decorator);
$subDec2 = new SubDecorator2($decorator);

$subDec1->addInfos();
$subDec2->addInfos();

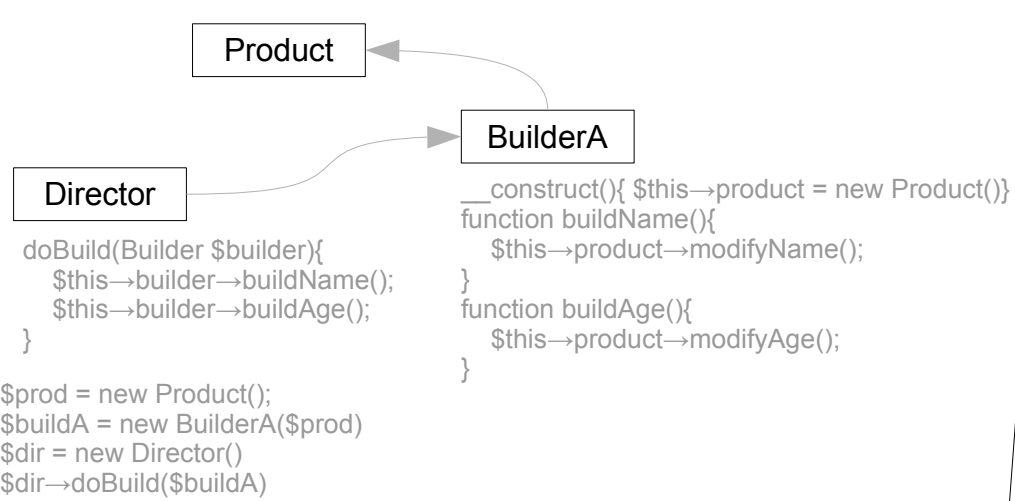
$decorator->getSubjectInfos();
```

creates a class from another one with
the exact method you need.
Make class work with others without changing their code
Adapter makes things work after they're designed;
Bridge makes them work before they are

ADAPTER

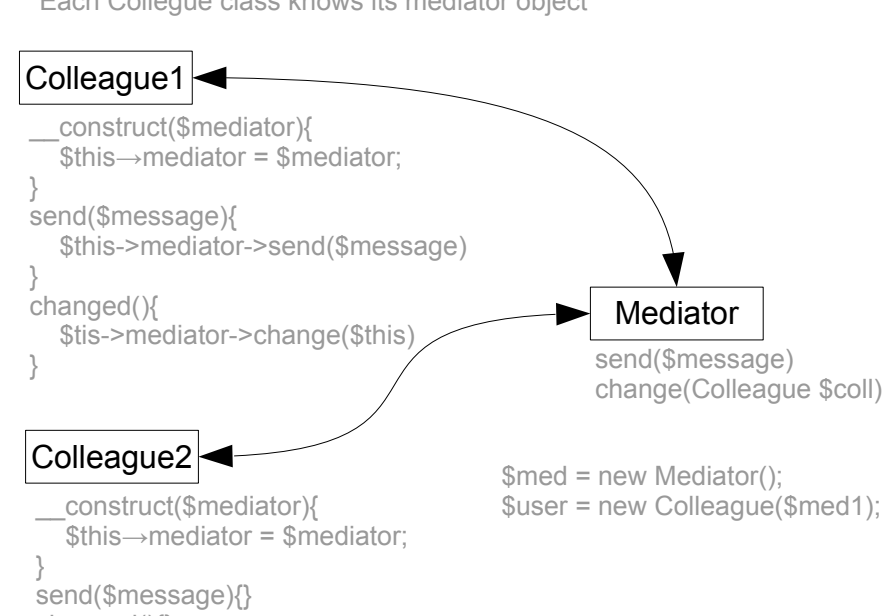


BUILDER
Uses FACTORY METHOD behind the scene
Separates the construction

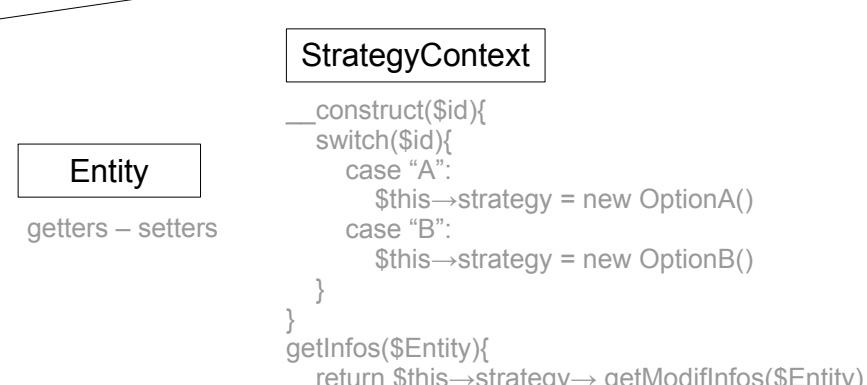
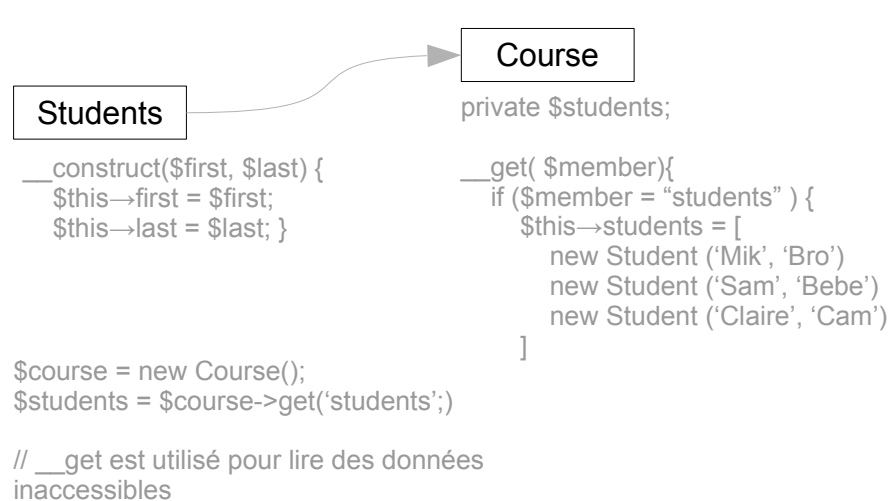


MEDIATOR

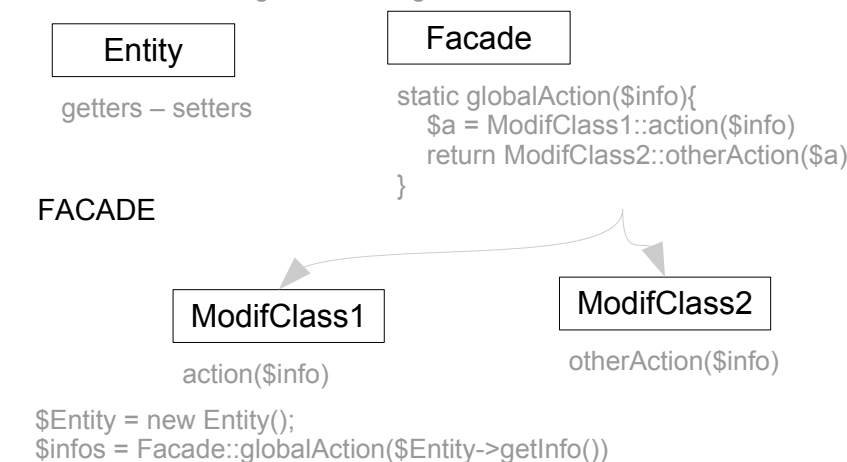
A Mediator is responsible for controlling and coordinating the interactions of a group of objects.
The Mediator serves as an intermediary that keeps objects from referring to each other explicitly
Colleagues should not know the next Colleague
Each Colleague class knows its mediator object



LAZY INSTANTIATION



the complex subsystem will know
nothing of the calling class



FACTORY METHOD
a class creates the object you want to use



SIMPLE DEPENDENCY INJECTION
A dependency is an object that can be used (a service)
An injection is the passing of a dependency to a dependent object (a client) that would use it



DEPENDENCY INJECTION + LAZY INSTANTIATION = service container
service container→2 variables référencent meme instance du service
BUILDER
ABSTRACT FACTORY
COMPOSITE
MEDIATOR
TEMPLATE METHOD
Making every filter referencing the next one would build a Chain of Responsibility

TEMPLATE METHOD
Surcharge Principle

