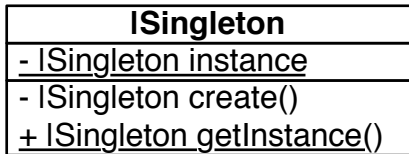


aspect Singleton

ISingleton

structural view

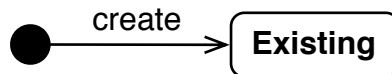


state view ISingleton

Pointcut

Advice

Existing



Default Instantiation: Existing → *

message view getInstance

caller: Caller

<<metaclass>>
ISingleton

new := getInstance()

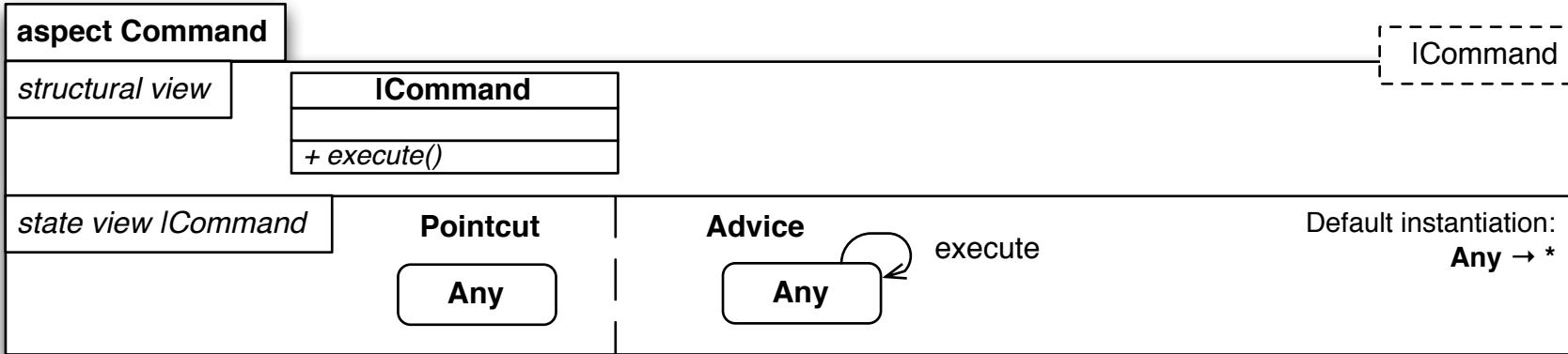
opt [instance = null]

instance := create()

instance:
ISingleton

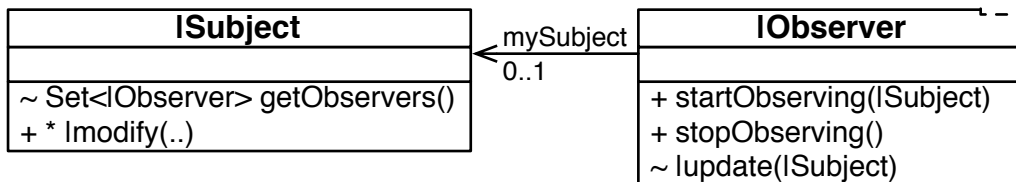
instance

Default Instantiation: caller → *; Caller → *; new → *



aspect Observer depends on ZeroToMany

structural view

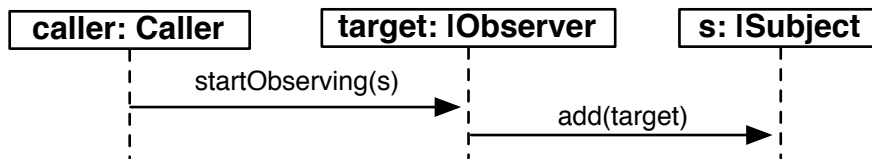


ISubject<Imodify<Iupdate>>
IObserver<Iupdate>

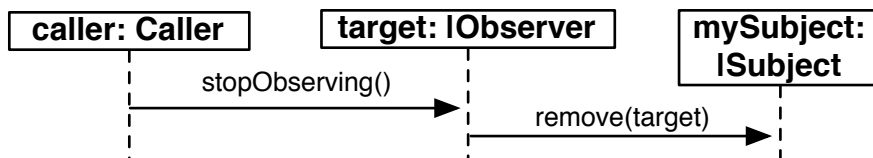
Instantiations:

ZeroToMany: **IData → ISubject; IAssociated → IObserver; getAssociated → getObservers**

message view startObserving

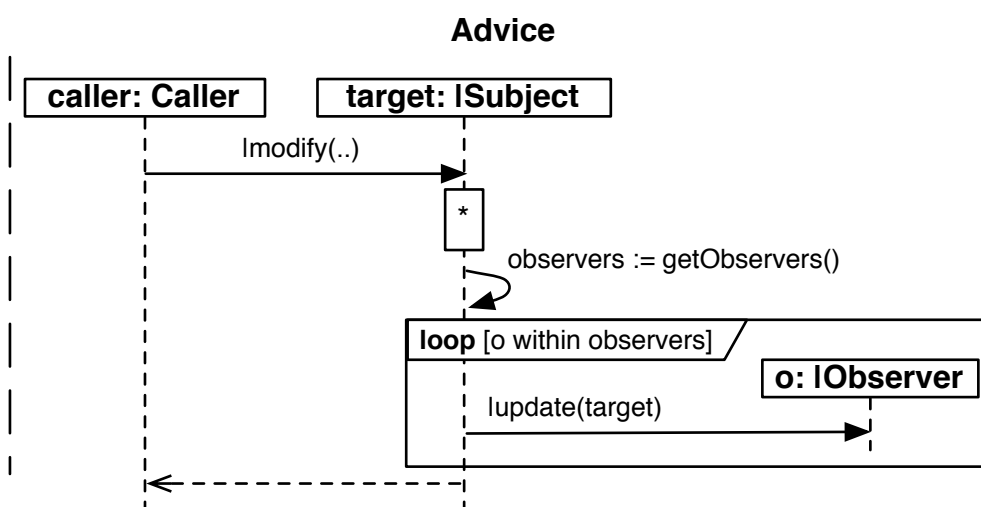
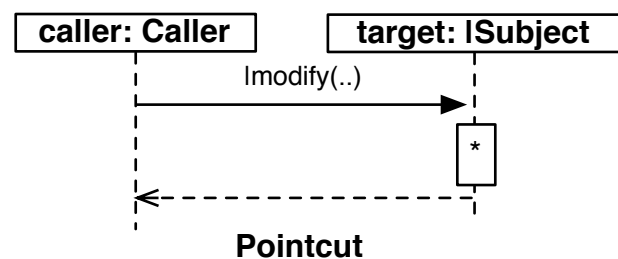


message view stopObserving

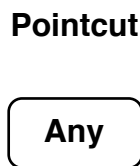


message view Imodify affected by notification

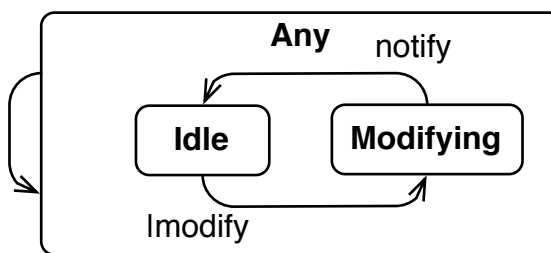
message view notification



state view ISubject



Advice



Default instantiation:
Any → *

Instantiations:

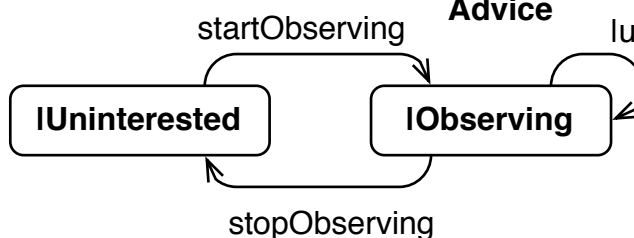
ZeroToMany: **AddAllowed → Any; RemoveAllowed → Any; Any → Any**

state view IObserver

Pointcut



Advice



IUninterested
IObserving