

Aspect's sections

```
aspect Observer {
  structure { ... }
  instantiations { ... }
  messages { ... }
}
```

Structural View

structural view structure { ... }

class class Observer { ... }

partial class class |Observer { ... }

attribute int myAttribute

public operation + startObserving(|Subject)

private operation - privateOperation()

protected operation ~ |update()

associations section associations { ... }

association named mySubject |Observer -> 0..1 |Subject { mySubject }

unidirectional association |Observer -> |Subject { mySubject }

bidirectional association |Observer & |Subject { mySubject }

super type class Derived : Supertype { ... }

abstract class abstract class AbstractClass { ... }

Instantiations

instantiations section instantiations { ... }

depends on dependsOn ZeroToMany { ... }

extends extends ZeroToMany { ... }

class mapping |Data -> |Subject

operation mapping |Data<|modify> ->

|InterceptStateChange<|modifyData>

attribute mapping |Data<sourceAttribute> ->

|InterceptStateChange<targetAttribute>

Message View Headers

message view declaration messageView |Data.add(|Associated a) { ... }

aspect aspectMessageView

message view initializationAssociation { ... }

message view reference messageView |Data.|create() affectedBy initializeAssociation

Control Flow in Messages View

alt combined fragment alt [" i > 5 "] { ... }

opt combined fragment opt [" i > 5 "] { ... } else { ... }

loop combined fragment loop ["i = 0; i < 10; i++"] { ... }

Message View Body

lifelines declaration lifelines { ... }

reference class lifeline ref target:StockGUI

association lifeline assoc mySet:Set

attribute lifeline attr s:size

reference local variable ref target:StockGUI { window:Window }

attribute local variable ref target:Map { int size }

attribute with value local variable ref s:Socket { String ip = "localhost" }

message occurrence add(parameter)

message occurrence with assignment result := remove(a)

return message return result

interaction target => mySet { result := remove(a) }

original behaviour occurrence target => *

destruction occurrence socket => X

Message View Aspects

pointcut pointcut create(mySocket)

advice advice { ... }



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