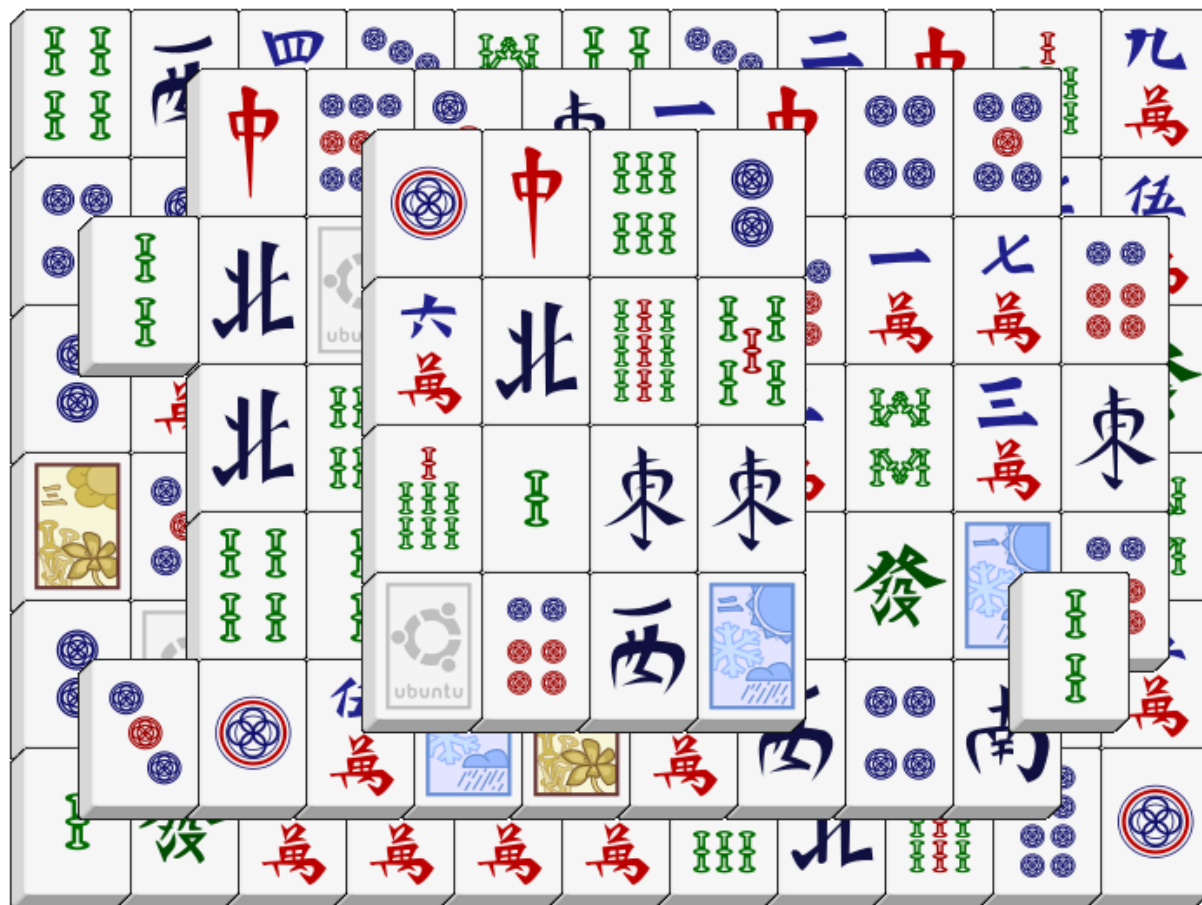


Hexacta Labs

➤ Patrones de diseño



PUESTO N°6



NIVEL 3



EMPRESA INFORMÁTICA
2000



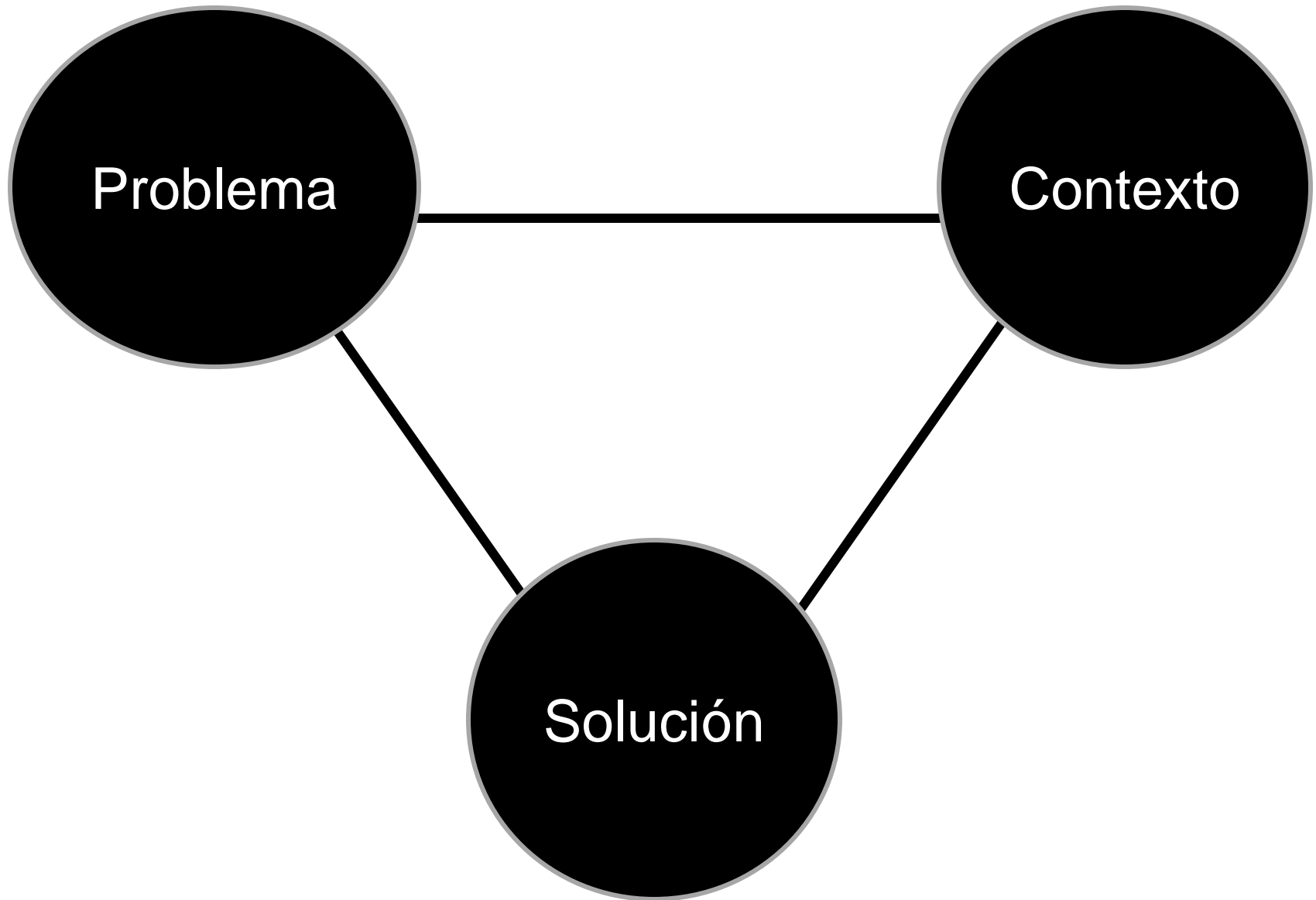
EXPORTACIÓN
DE SERVICIOS



Agenda

- Qué es un Patrón de diseño ?
- Metodología
- Ventajas y desventajas.
- Categorización
- Patrones de GOF





Ventajas

Desventajas



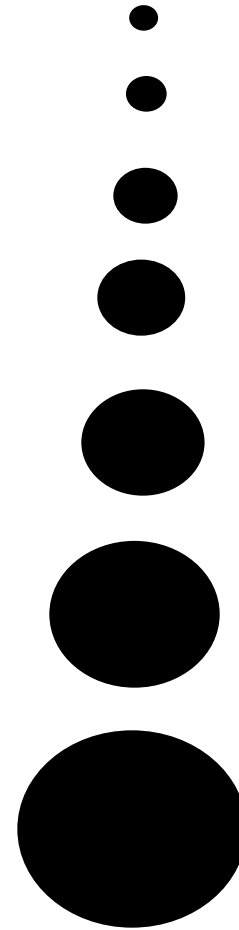
Patrones de software



De Código/Idioms

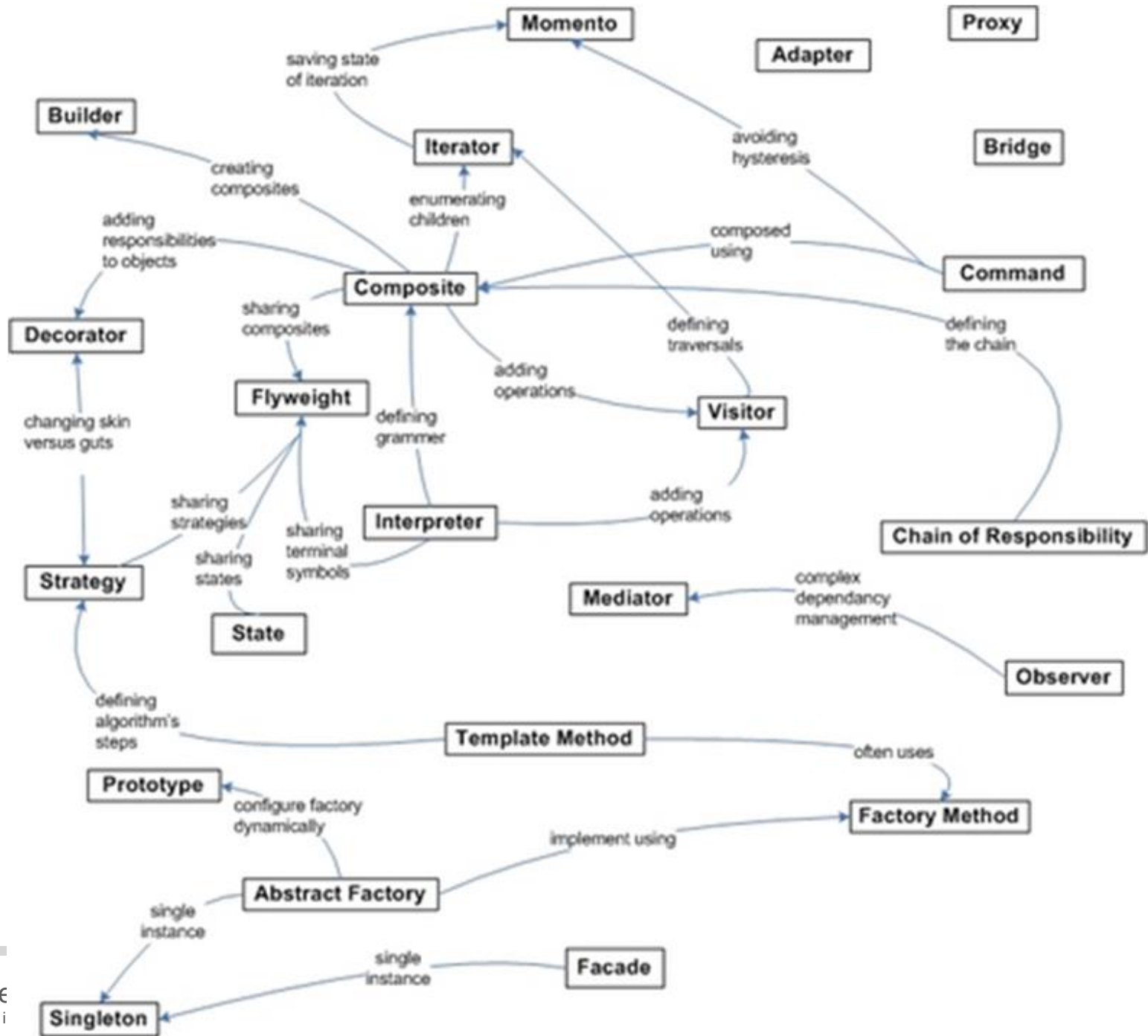
De “Diseño”

De “Arquitectura”



Los patrones de GOF





Descripción





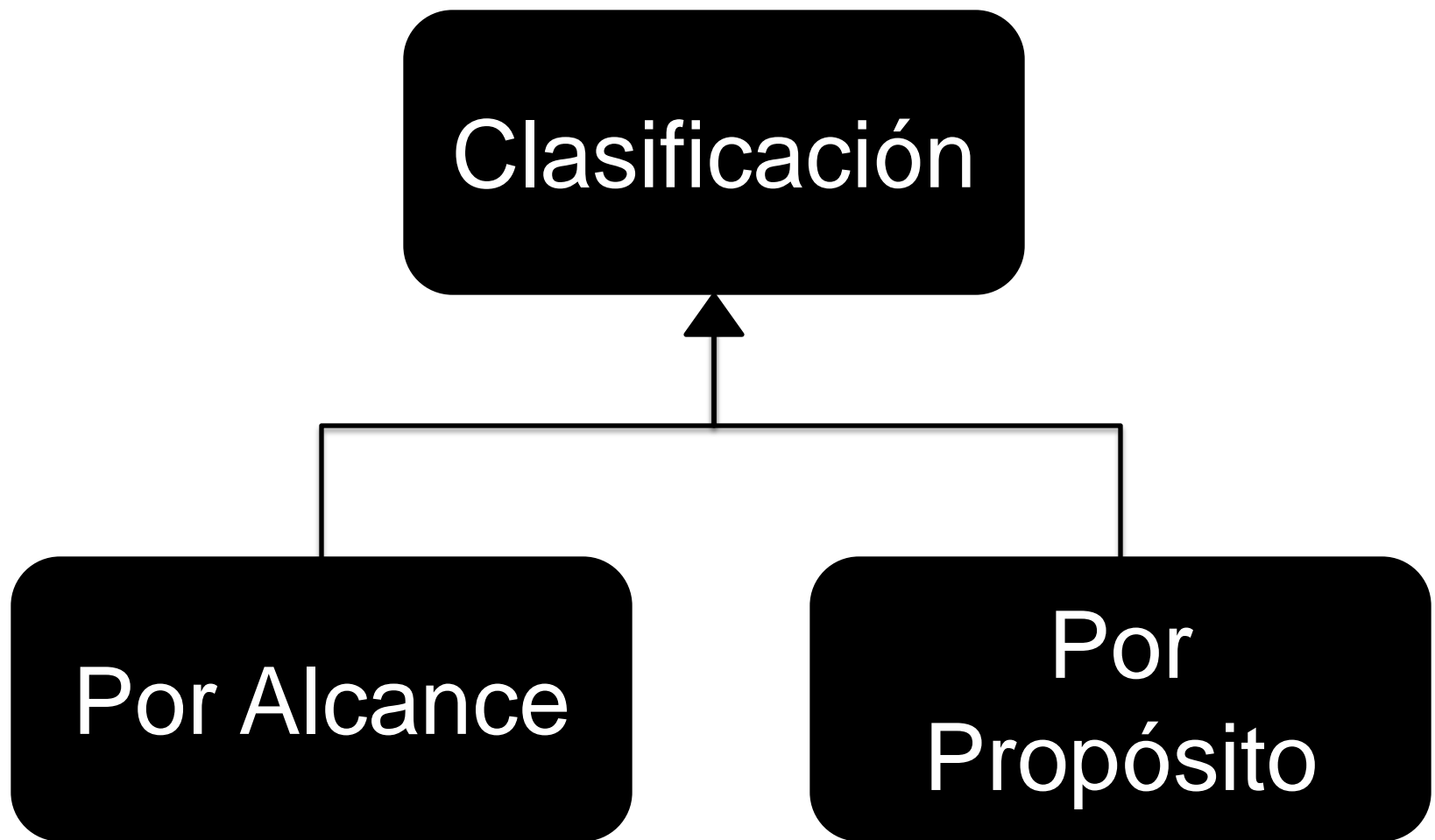
Nombre

Problema

Solución

Conse-
cuencias

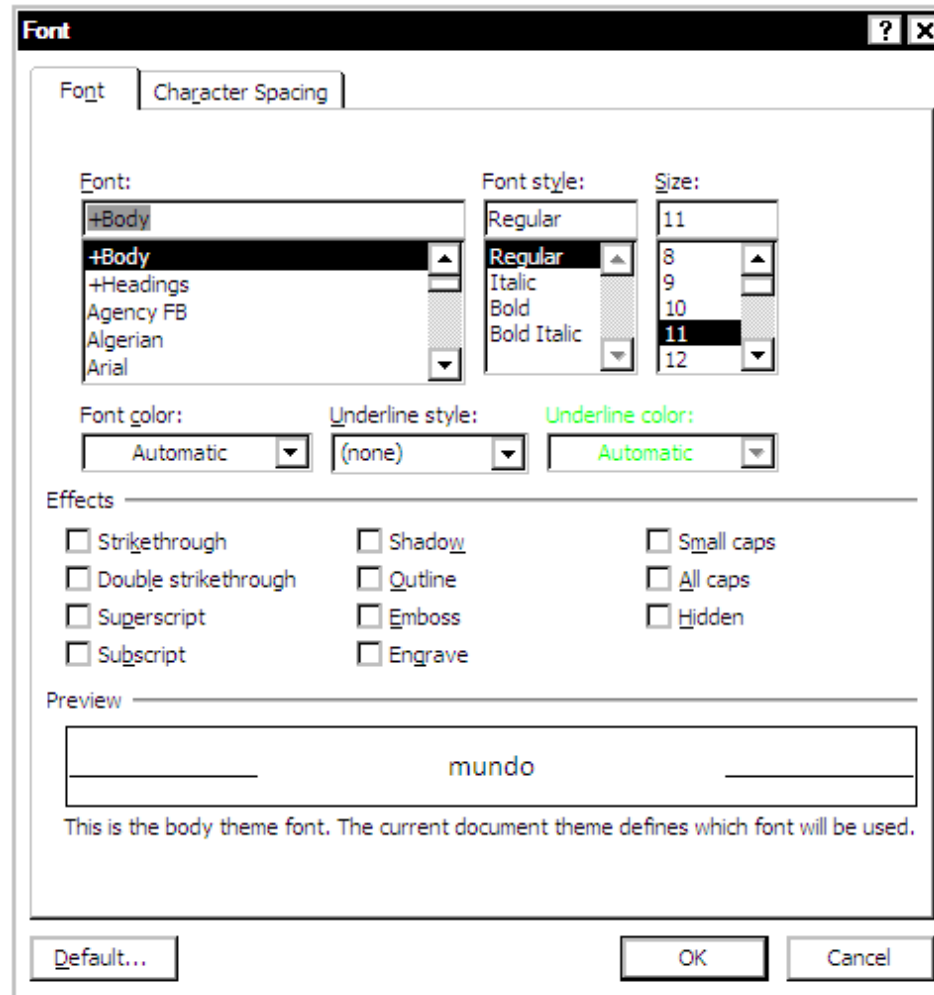




Problemas...



Preferences

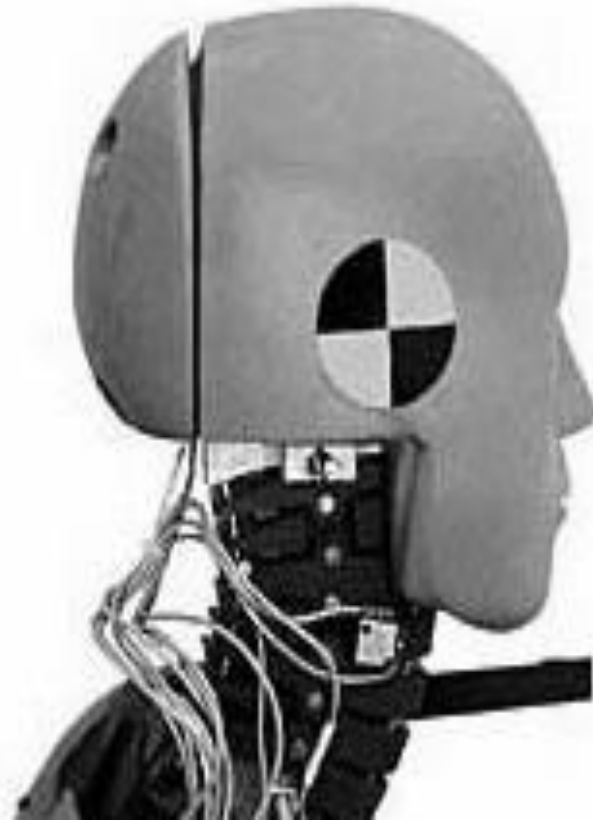


Singleton

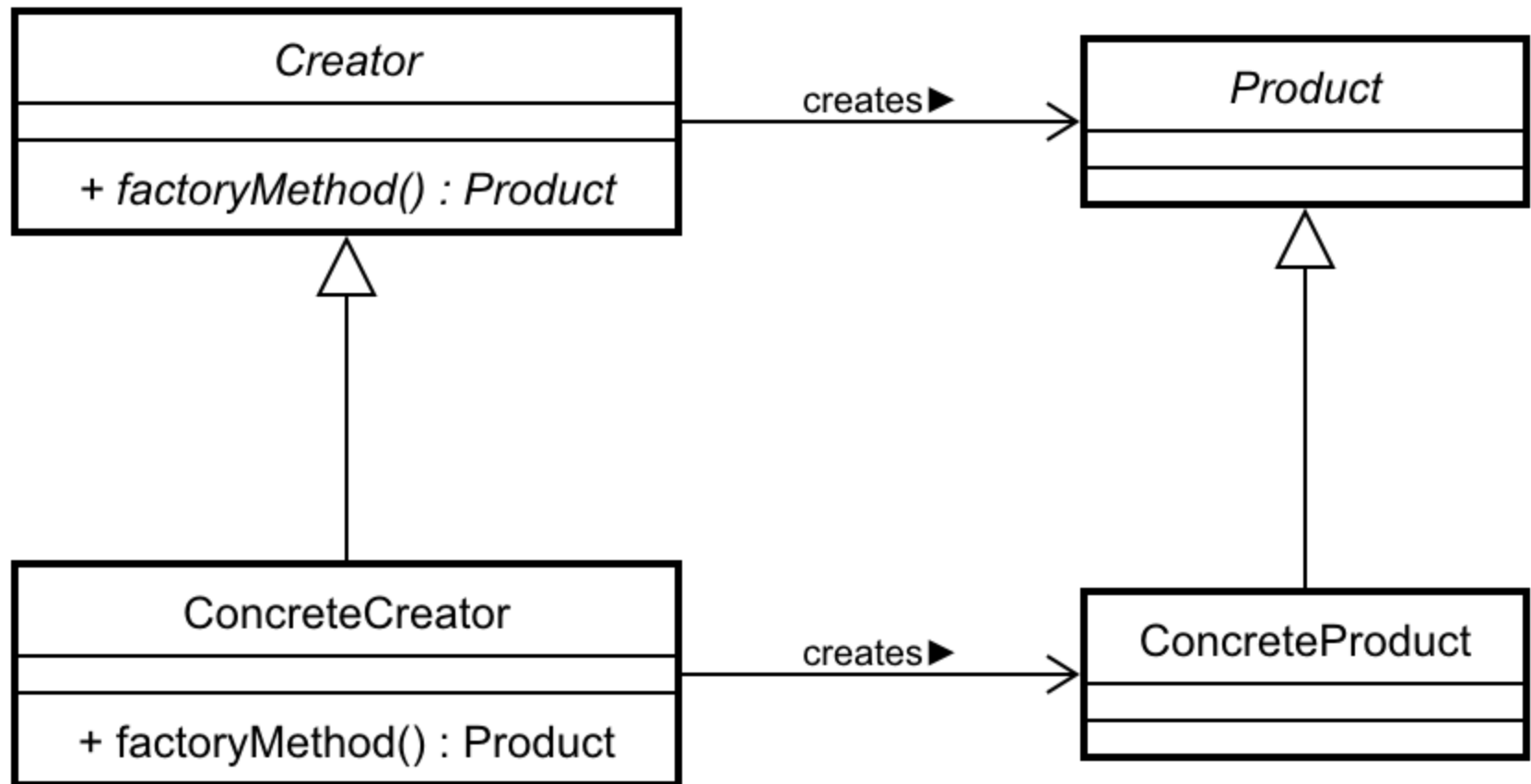
Singleton
<u>- singleton : Singleton</u>
<u>- Singleton()</u> <u>+ getInstance() : Singleton</u>



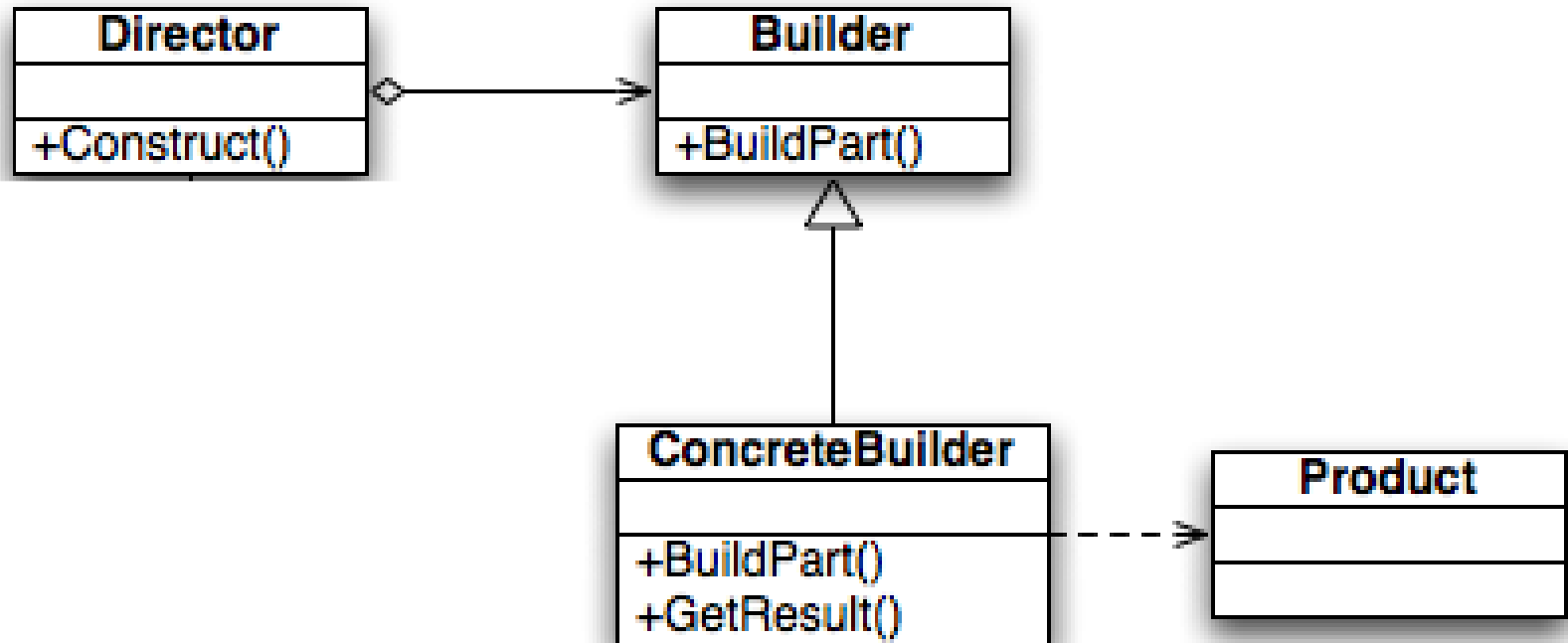
Testing!!!



Factory Method



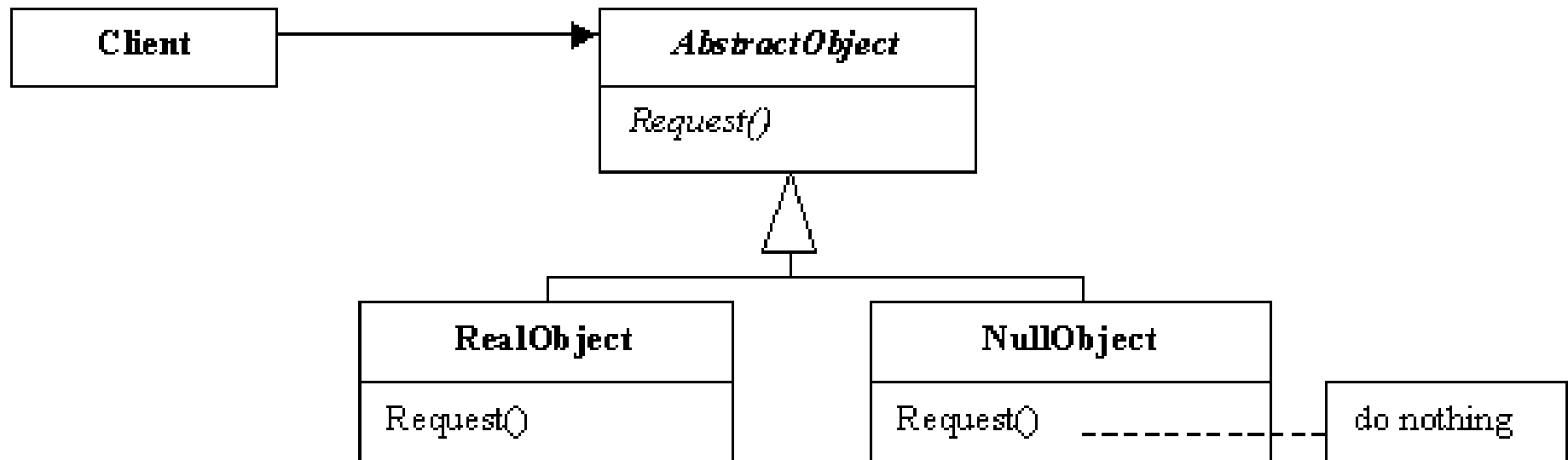
Builder



Customer



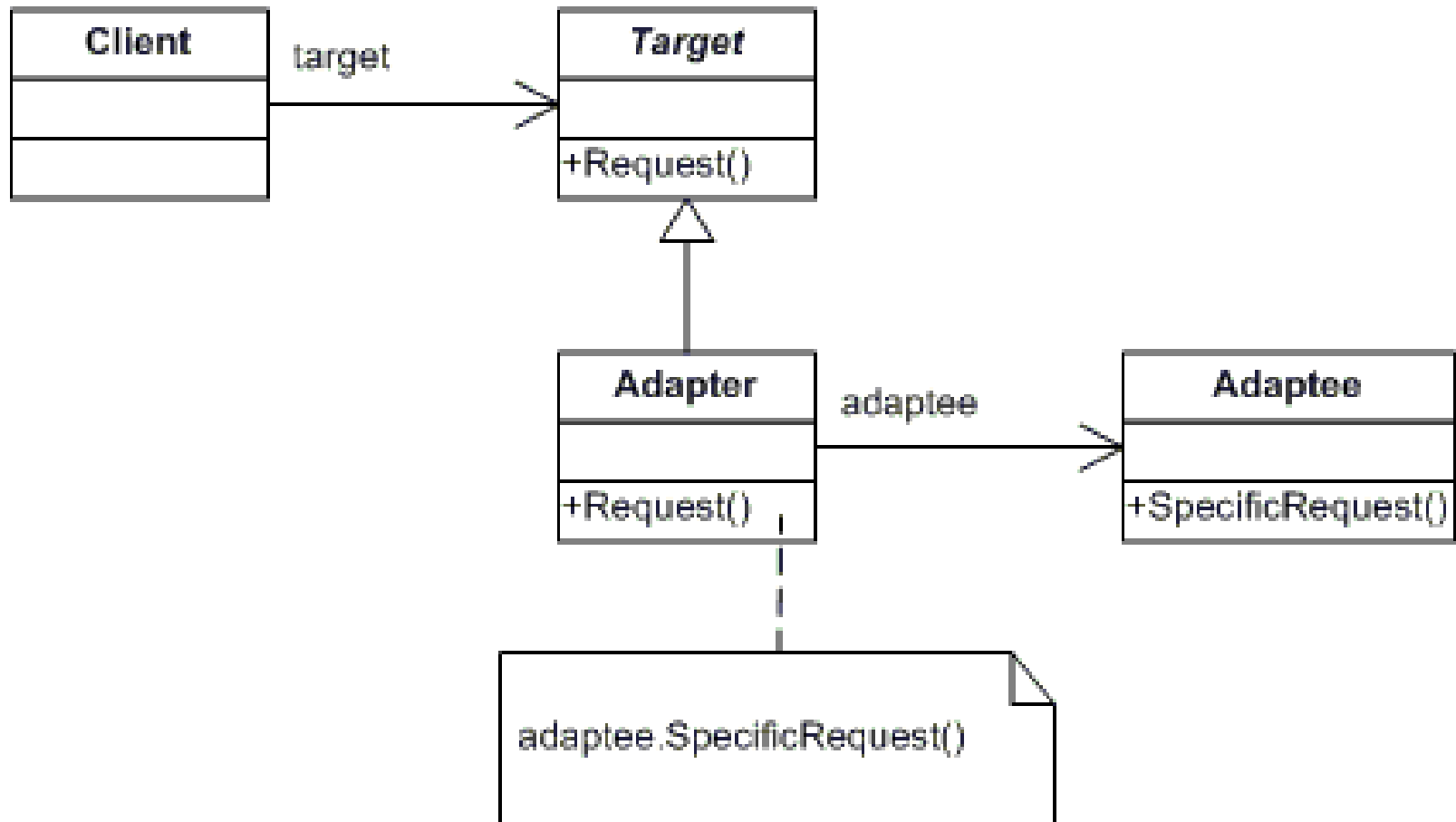
Null Object



Sensor



Adapter

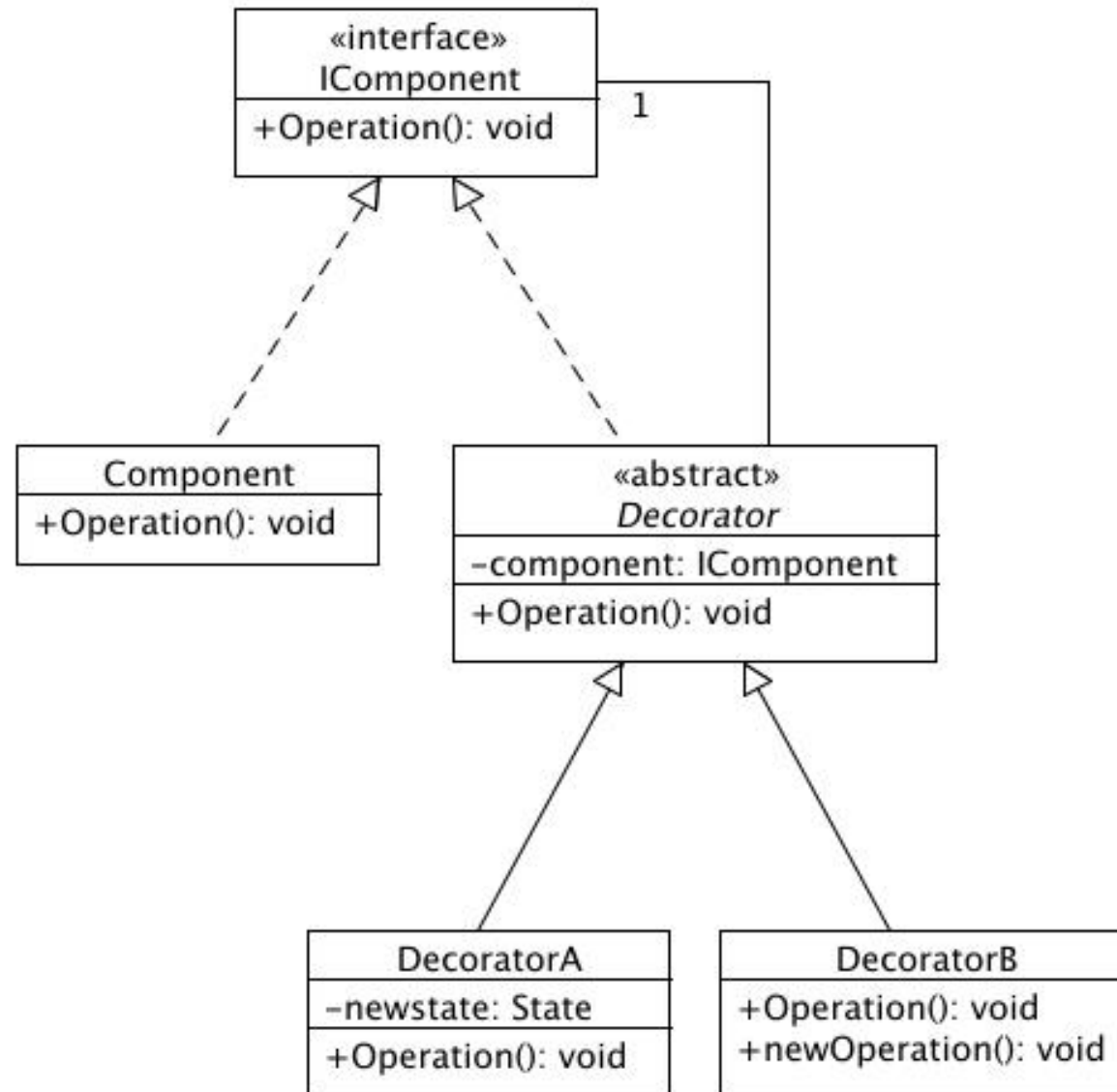


Logger

```
(ntoskrnl/kd/kdio.c:191) -----
(ntoskrnl/kd/kdio.c:192) ReactOS 0.4-SVN (Build 20090320-r40129)
(ntoskrnl/kd/kdio.c:193) Command Line: NOGUIBOOT  DEBUGPORT=COM1 NOGUIBOOT  DEBU
GPORT=COM1
(ntoskrnl/kd/kdio.c:194) ARC Paths: multi(0)disk(0)cdrom(224) \ multi(0)disk(0)c
drom(224) \reactos\
Used memory 130612Kb
(ntoskrnl/mm/mminit.c:284)      Start      End      Type
(ntoskrnl/mm/mminit.c:285) 0x80000000 - 0x80800000      Undefined region
(ntoskrnl/mm/mminit.c:288) 0x80800000 - 0x80E00000      FreeLDR Kernel mapping r
egion
(ntoskrnl/mm/mminit.c:291) 0x80E00000 - 0x80F00000      PFN Database region
(ntoskrnl/mm/mminit.c:298) 0x80F00000 - 0x87300000      Non paged pool region
(ntoskrnl/mm/mminit.c:301) 0x87300000 - 0x8D700000      Paged pool region
(ntoskrnl/ke/i386/kiinit.c:43) Large Page support detected but not yet taken adv
antage of!
(ntoskrnl/ke/i386/patpge.c:62) Advanced Memory features detected but not yet tak
en advantage of.
(ntoskrnl/ke/i386/mtrr.c:24) Your machine supports MTRR but ReactOS doesn't yet.
WARNING:  KdDebuggerInitialize1 at drivers/base/kdcom/i386/kdbg.c:489 is UNIMPLE
MENTED!
WARNING:  IoReportResourceUsage at ntoskrnl/io/iomgr/iorsrce.c:700 is UNIMPLEMEN
TED!
WARNING:  IoReportResourceUsage at ntoskrnl/io/iomgr/iorsrce.c:700 is UNIMPLEMEN
```



Decorator



Reports

6

**HYNDBURN BOROUGH COUNCIL
BOROUGH COUNCIL ELECTION**

NOTICE OF PERSONS ELECTED

Date of Election : 4th May 2006

I, JANE ELLIS, the Returning Officer at the above election do hereby certify that the name of the person(s) elected as Councillor are as follows :-

Ward	Candidates Name	Description (if any)	Address
Clayton-le-Moors	Nicholas Collingridge commonly known as Nick Collingridge	Independent	66 Sporth Road, Clayton-le-Moors
Huncoast	Paul Francis Gott	The Labour Party Candidate	2 James Street, Huncoast Village
Immanuel	Edeline Colette McCormack commonly known as Colette McCormack	The Labour Party Candidate	37 Edinburgh Drive, Oswaldtwistle
Milshaw	Clare Pritchard	The Labour Party Candidate	73 Moss Hall Road, Accrington
Netherton	Muhammed Rahman commonly known as Dr Rahman	The Labour and Co-Operative Party Candidate	The Bungalow, 25 Mill Lane, Great Harwood
Overton	Roy Addison	The Conservative Party Candidate	102 Park Road, Great Harwood
Peel	Bernard Dawson	The Labour Party Candidate	26 Clarendon Street, Accrington
Rishton	Jennet Liddle	The Conservative Party Candidate	18 Lord Street, Rishton
Spring Hill	Pamela Barton commonly known as Pam Barton	The Labour Party Candidate	46 Omarad Street, Accrington
St. Andrew's	Peter Byrcliffe	The Conservative Party Candidate	106 New Lane, Oswaldtwistle
St. Oswald's	Douglas Hayes	The Conservative Party Candidate	12 Kingfisher Court, Oswaldtwistle

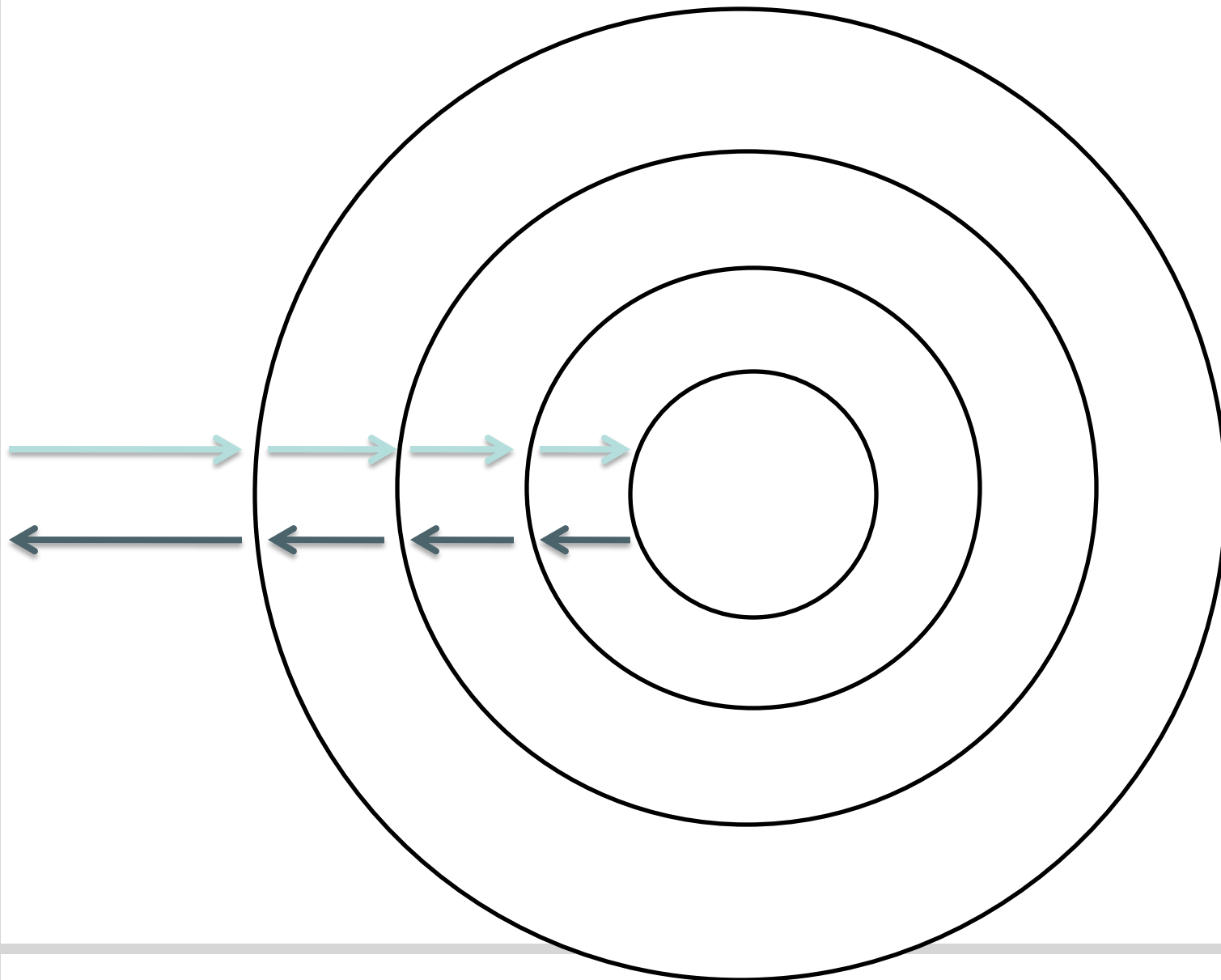
JANE ELLIS
Returning Officer

Dated : _____

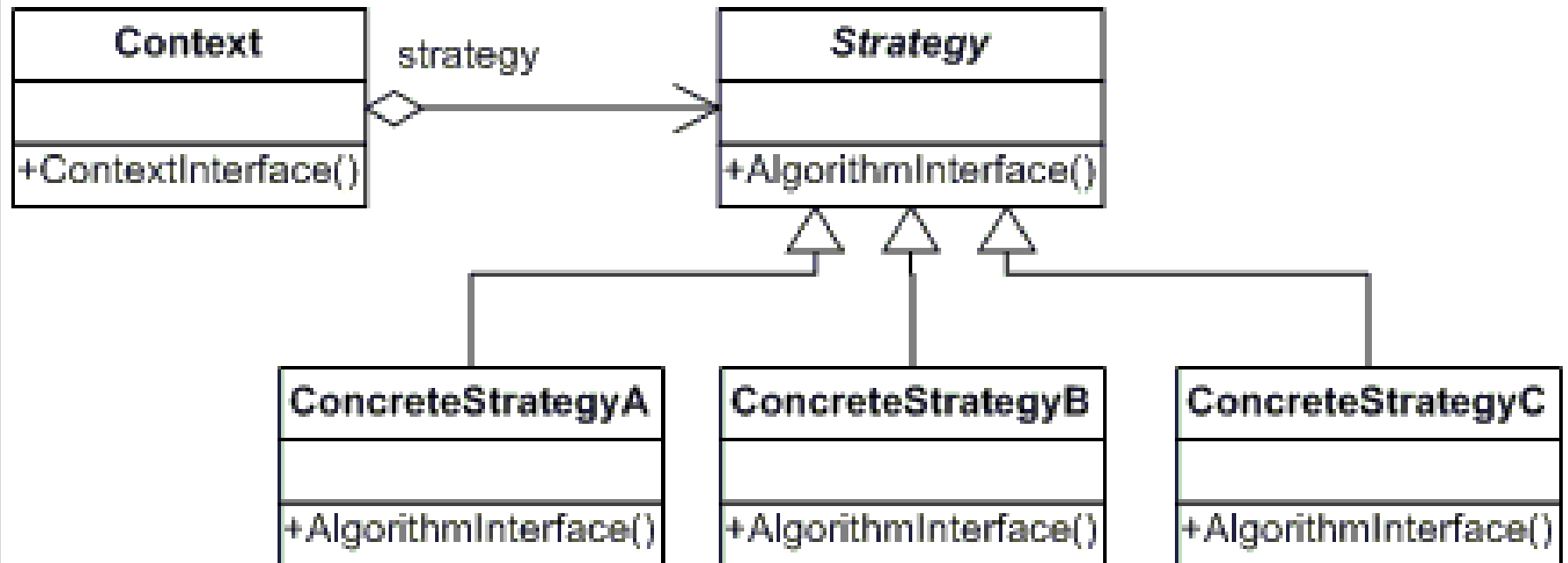
Printed and Published by the Returning Officer, Seashell House, Omarad Street, Accrington, Lancashire, BB5 0PF

Page 1 of 1





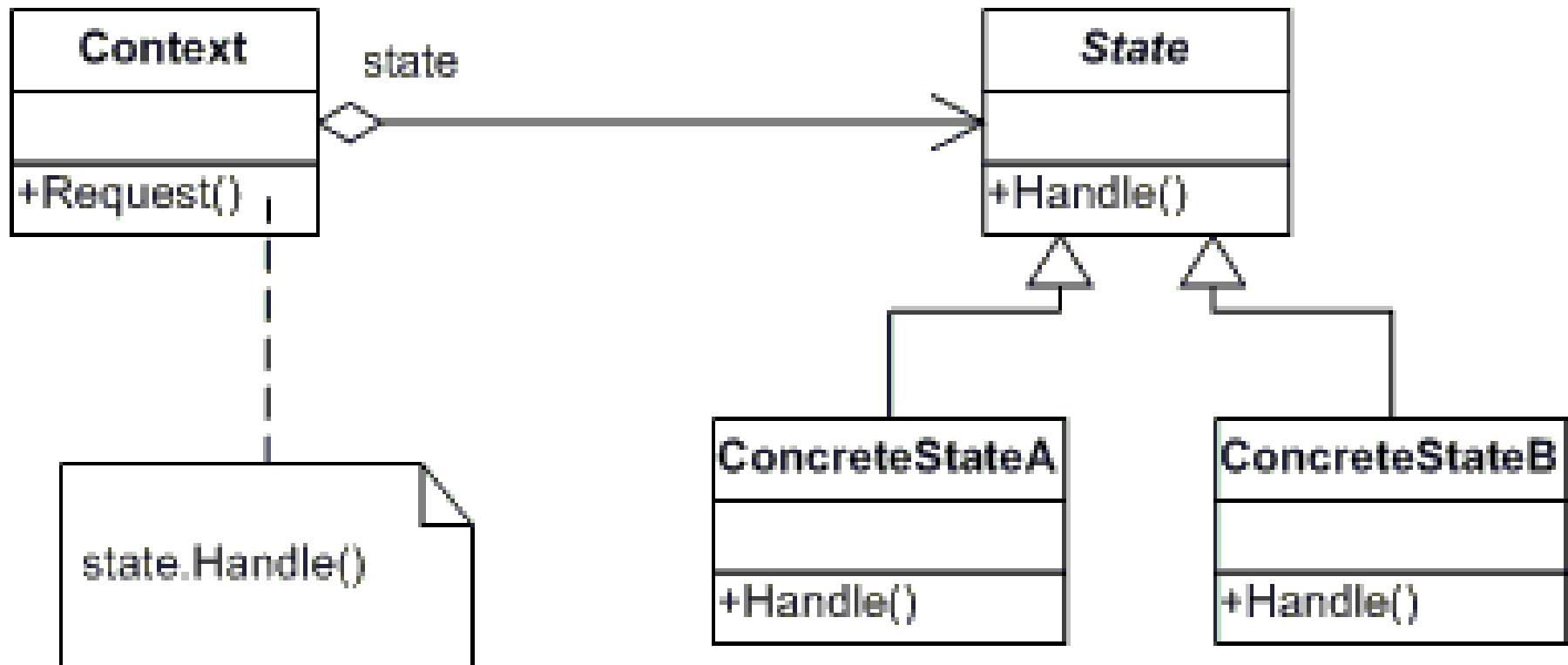
Strategy



Books



State



Hello World!!!

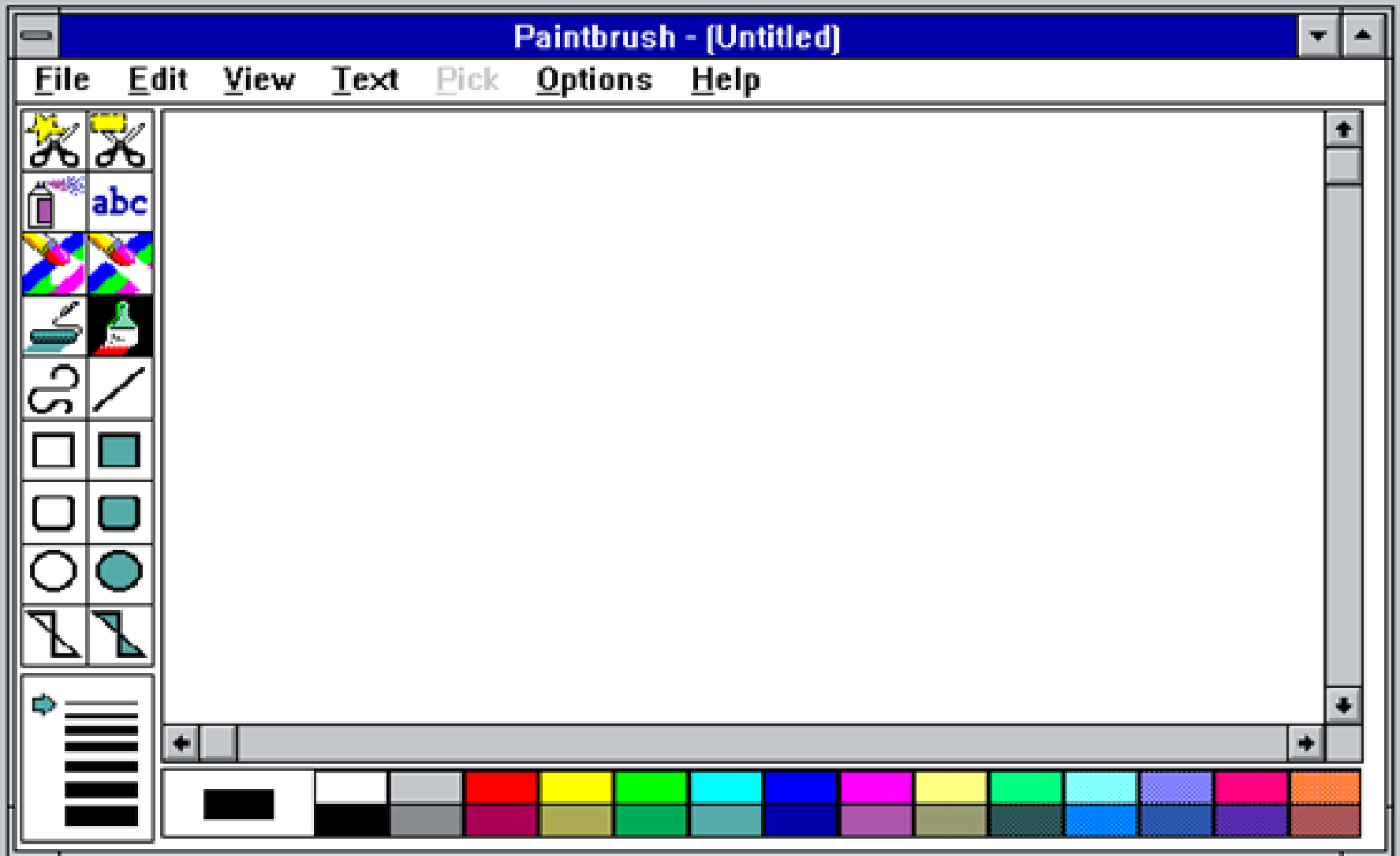


Problema

Patrón

Resolución





Editor gráfico



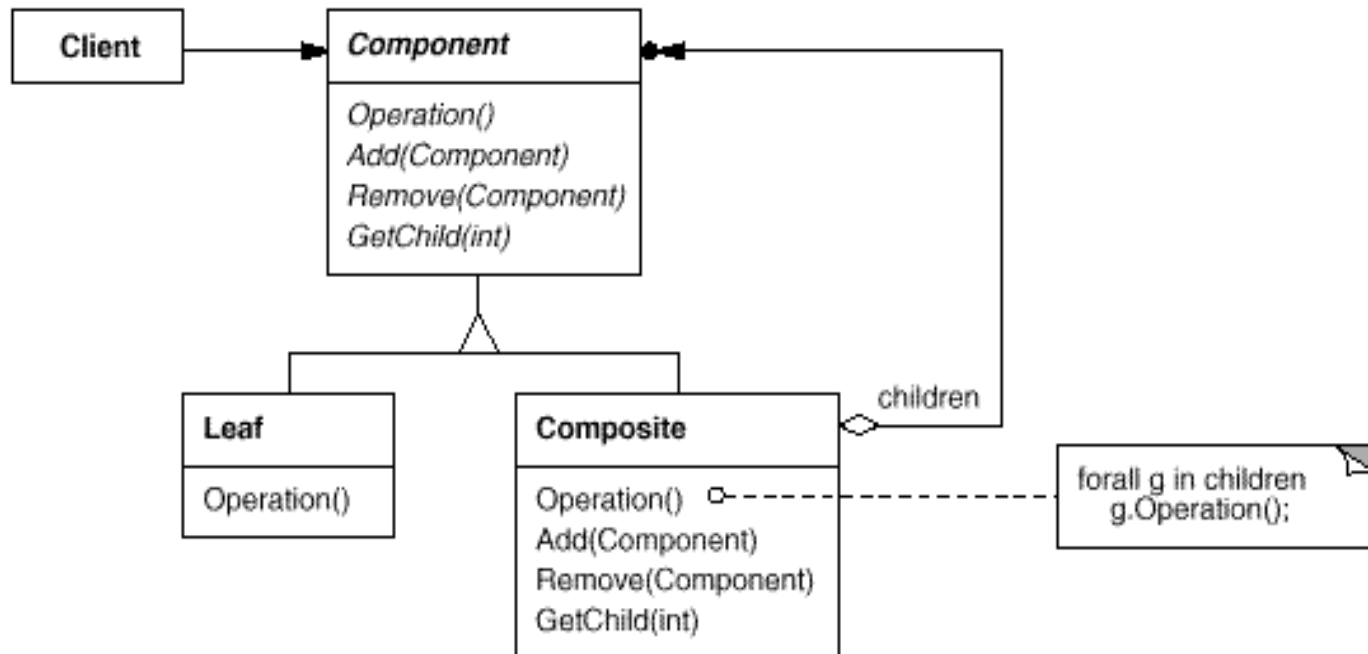
Iteración 1 - Problema

- Diseñar un editor gráfico
- Debe proveer el manejo de al menos
 - líneas
 - puntos

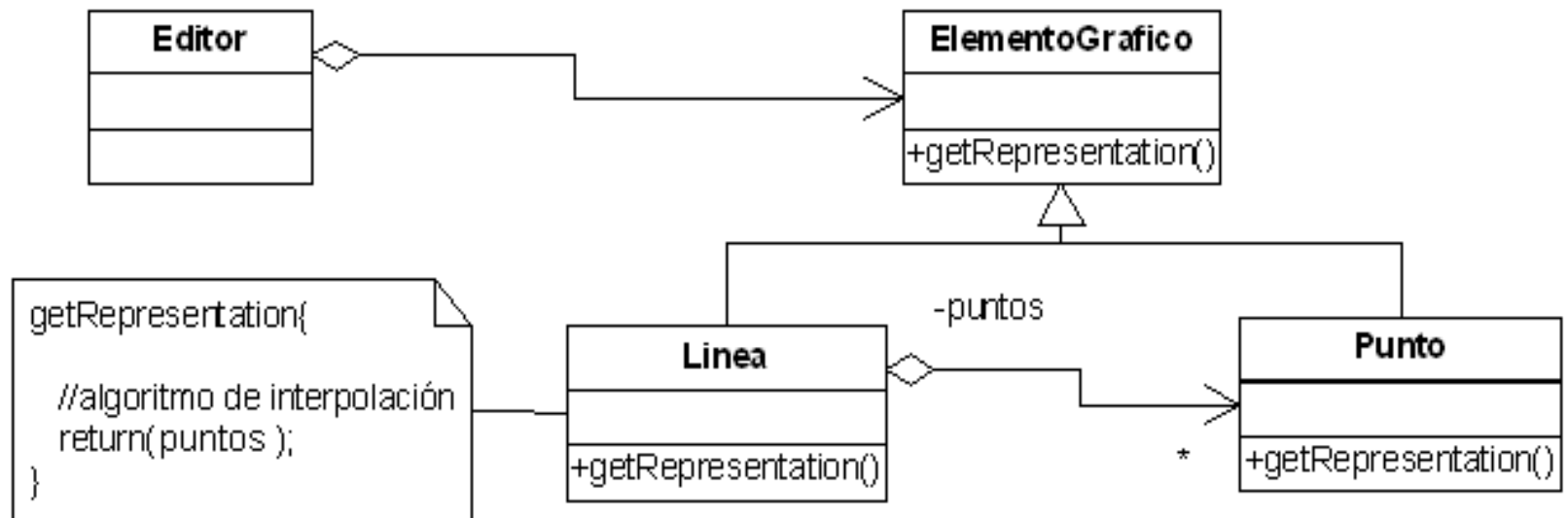


Iteración 1 - Patrón

Pattern Composite ? : *Trata uniformemente objetos individuales y compuestos*



Iteración 1 - Resolución



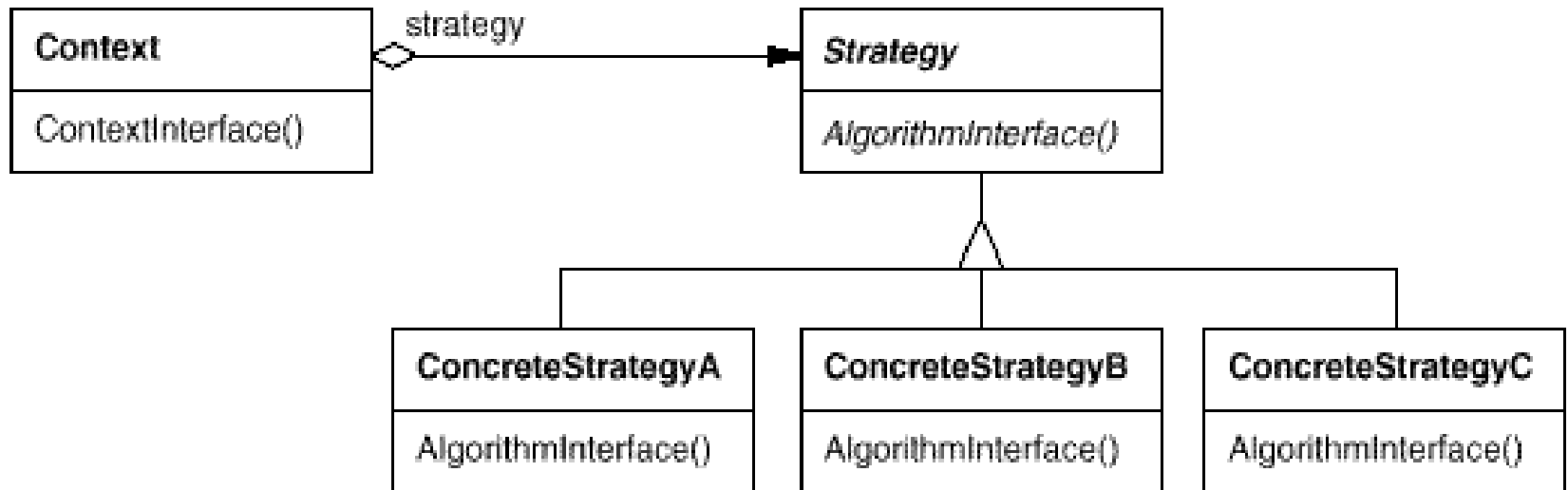
Iteración 2 - Problema

- Existen varias formas de interpolación
 - Unir con líneas rectas cada punto
 - Suavizar los puntos con curvas
 - Cerrar los puntos con una figura

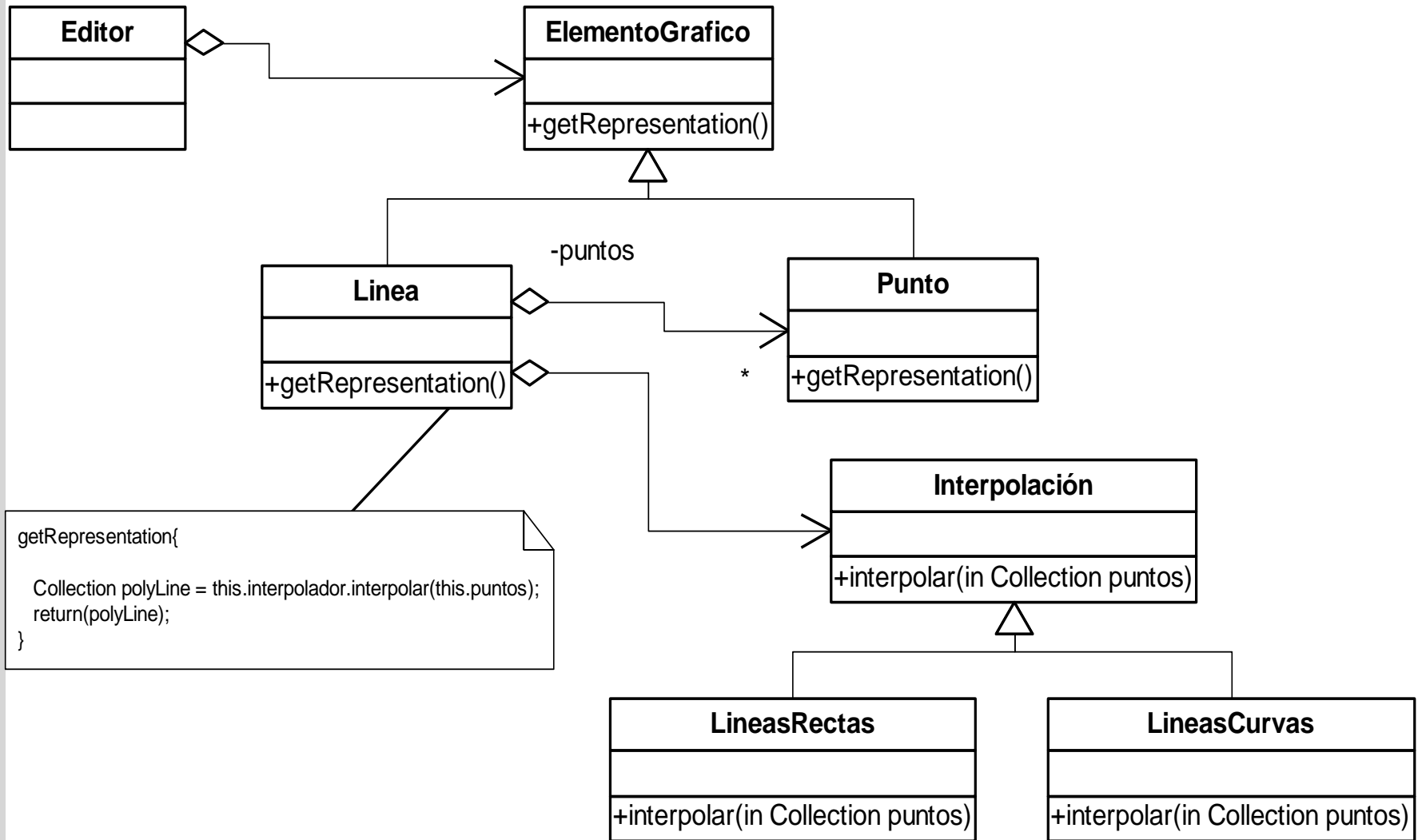


Iteración 2 - Patrón

Strategy : *Define una familia de algoritmos, encapsula cada uno, y los hace intercambiables*



Iteración 2 - Resolución



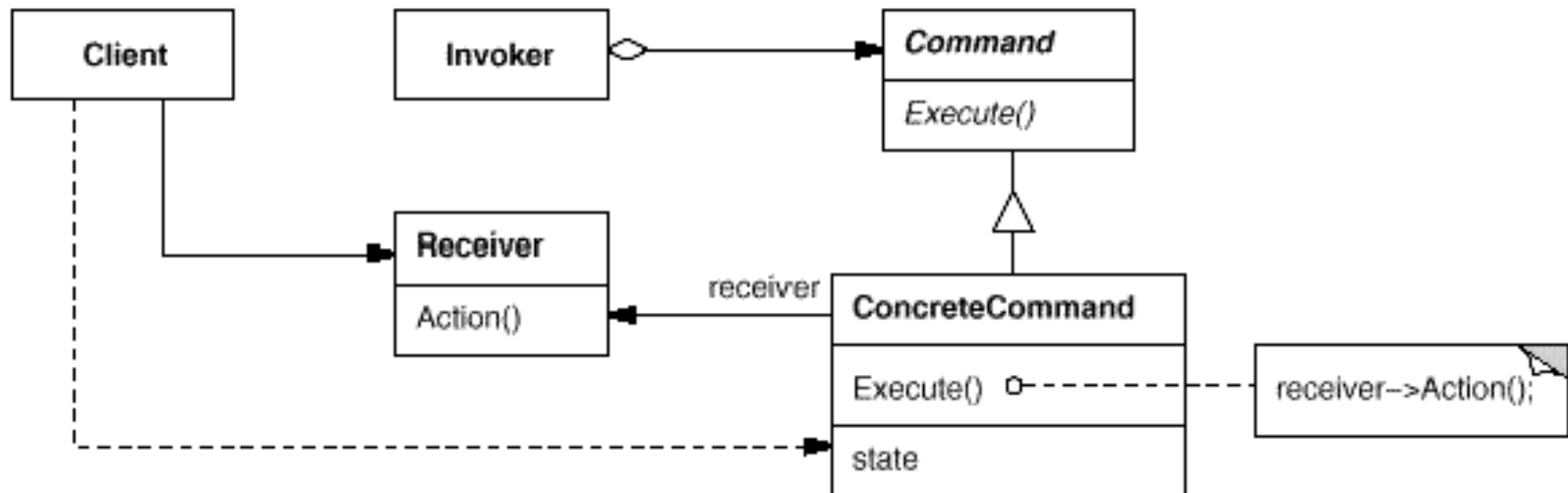
Iteración 3 - Problema

- Nuevas operaciones
 - Borrar un elemento gráfico
 - Moverlo de lugar
 - Pintarlo

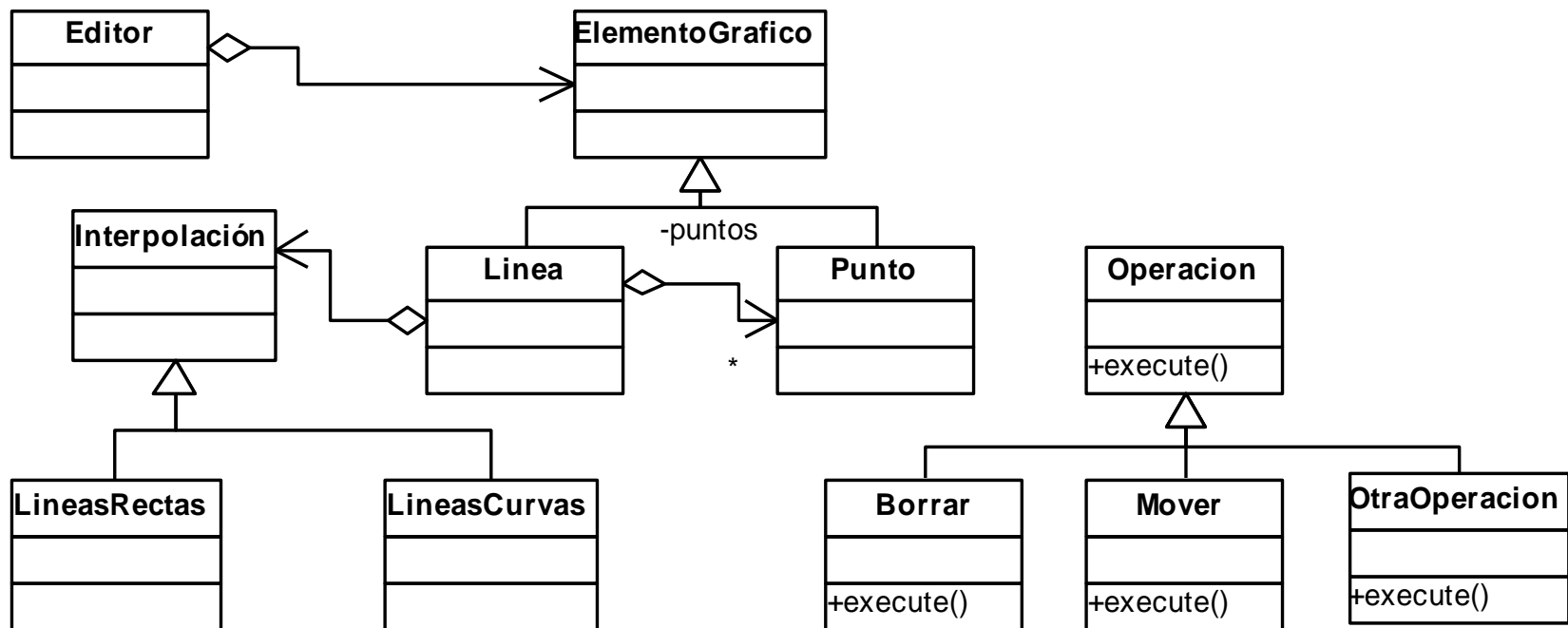


Iteración 3 - Patrón

Command: *Encapsula un requerimiento como un objeto, permitiendo encolarlos, reaplicarlos o deshacerlos*



Iteración 3 - Resolución



Iteración 4 - Problema

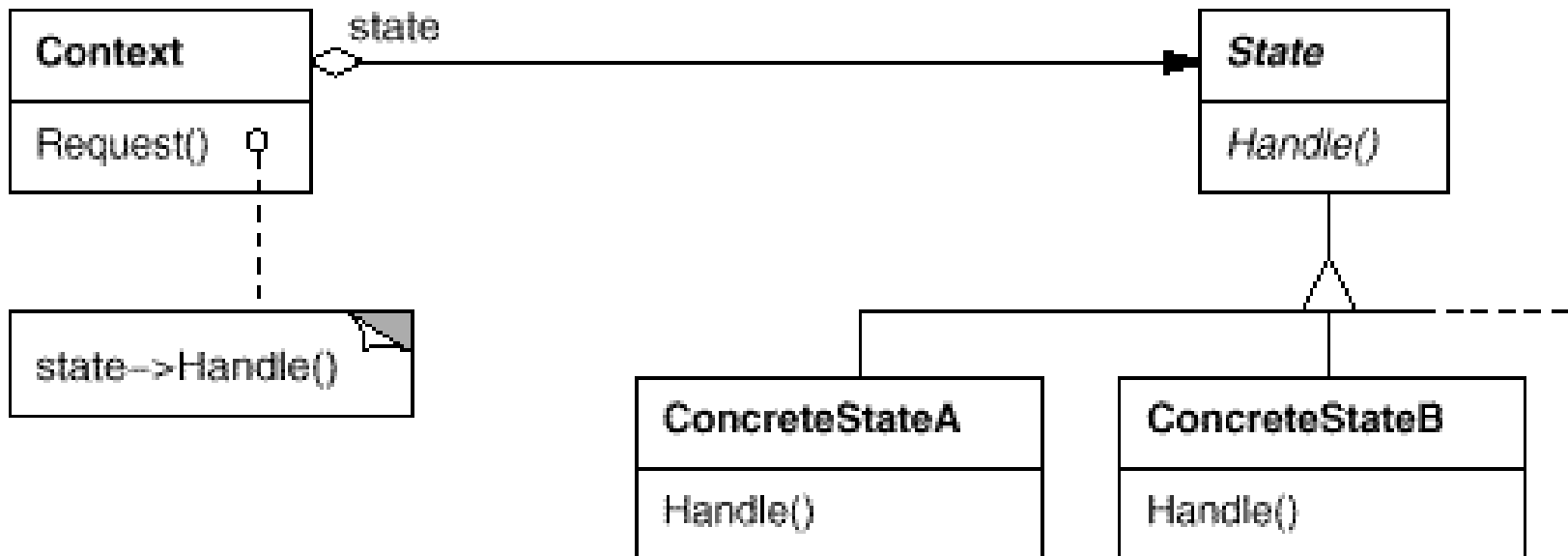
Se pueden dar las siguientes situaciones

- Selección de un objeto
- Selección múltiple
- No hay selección
- Se esta moviendo un elemento gráfico

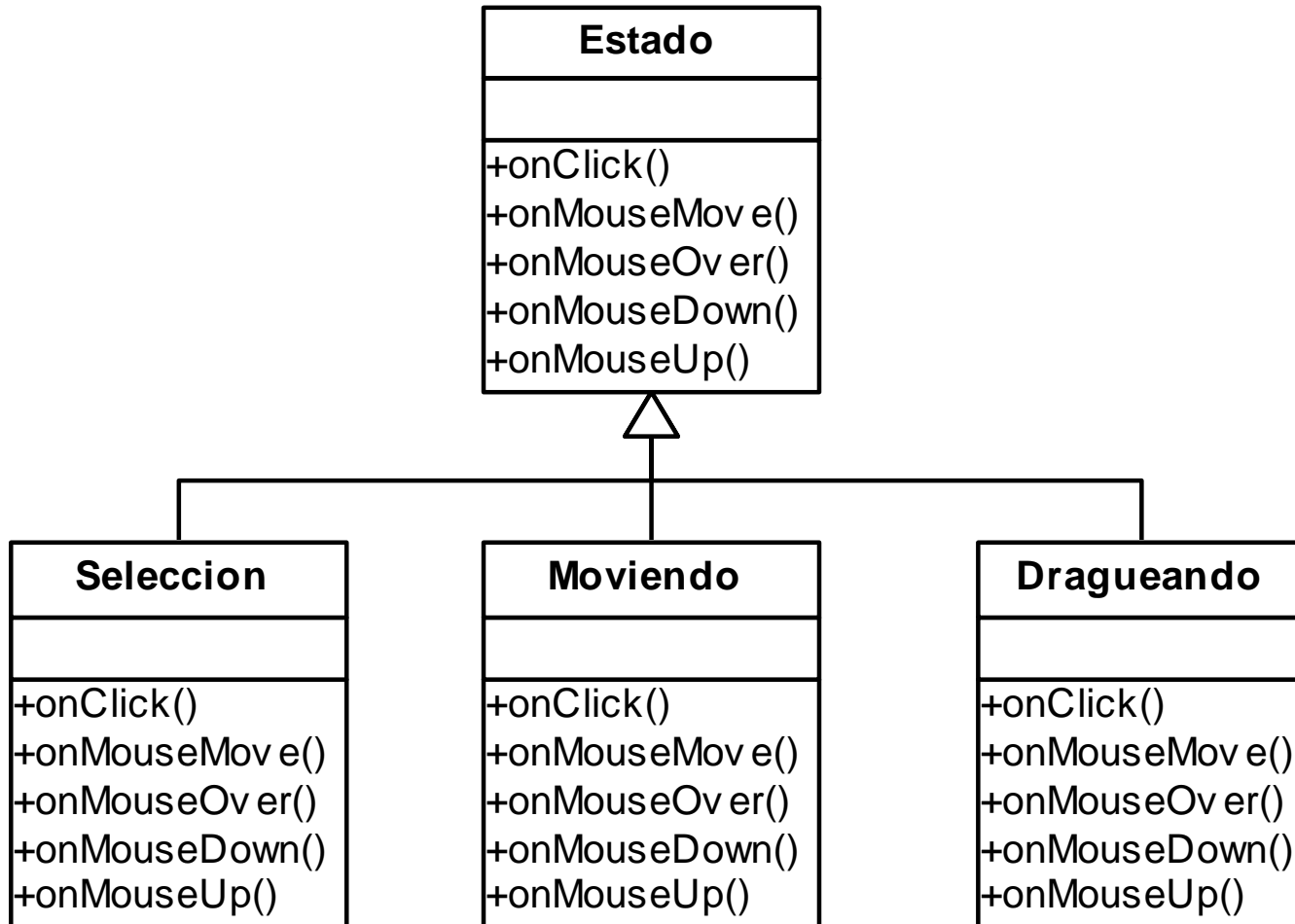


Iteración 4 - Patrón

State: *Representa el estado de un objeto y su comportamiento*



Iteración 4 - Resolución



Iteración 5 - Problema

¿Que pasa con el estado “sin hacer nada”?



Iteración 5 - Patrón

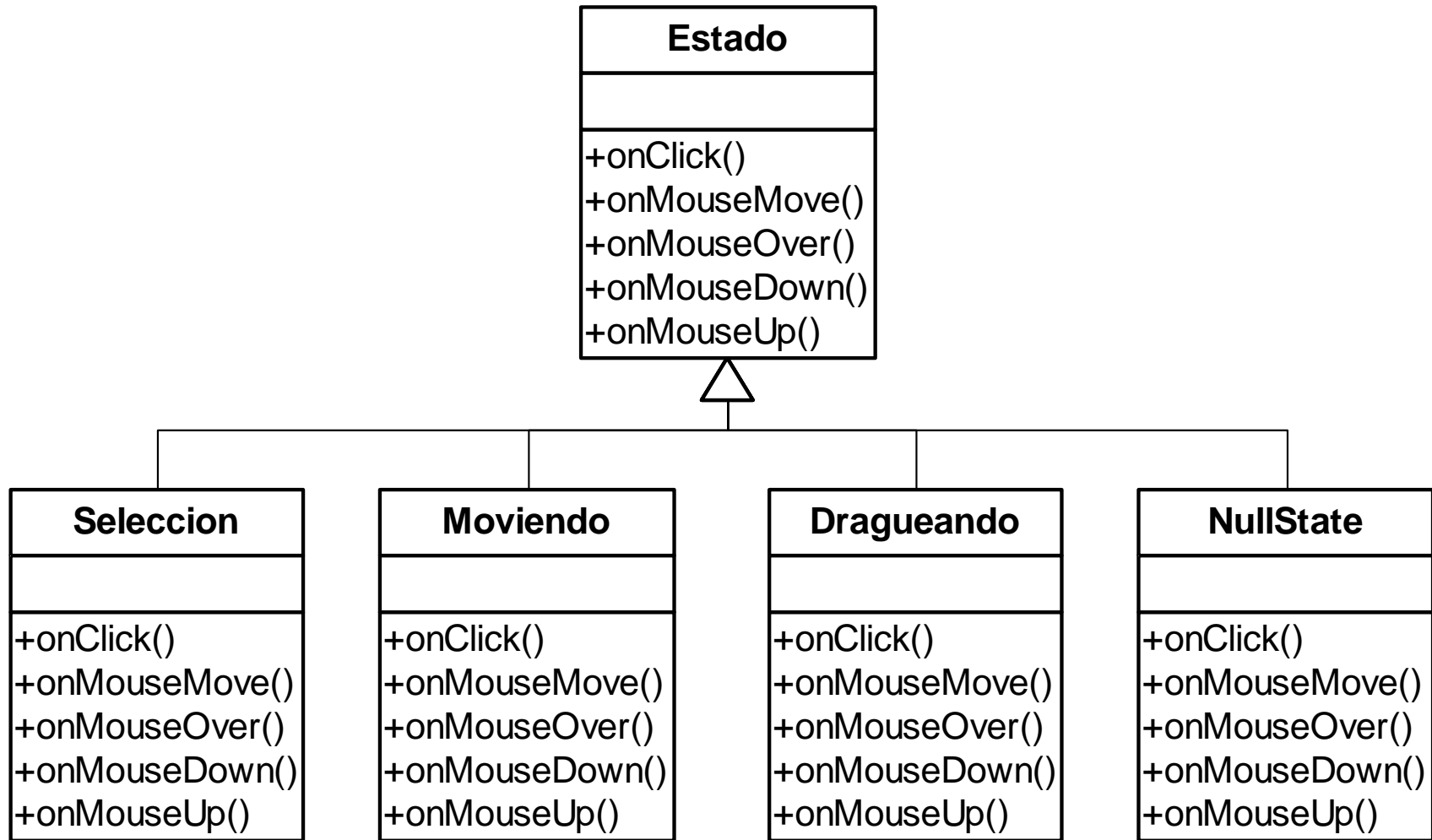
NULL OBJECT : Sustituto para objetos que comparten la misma interfase, pero no hacen nada.

- Null States

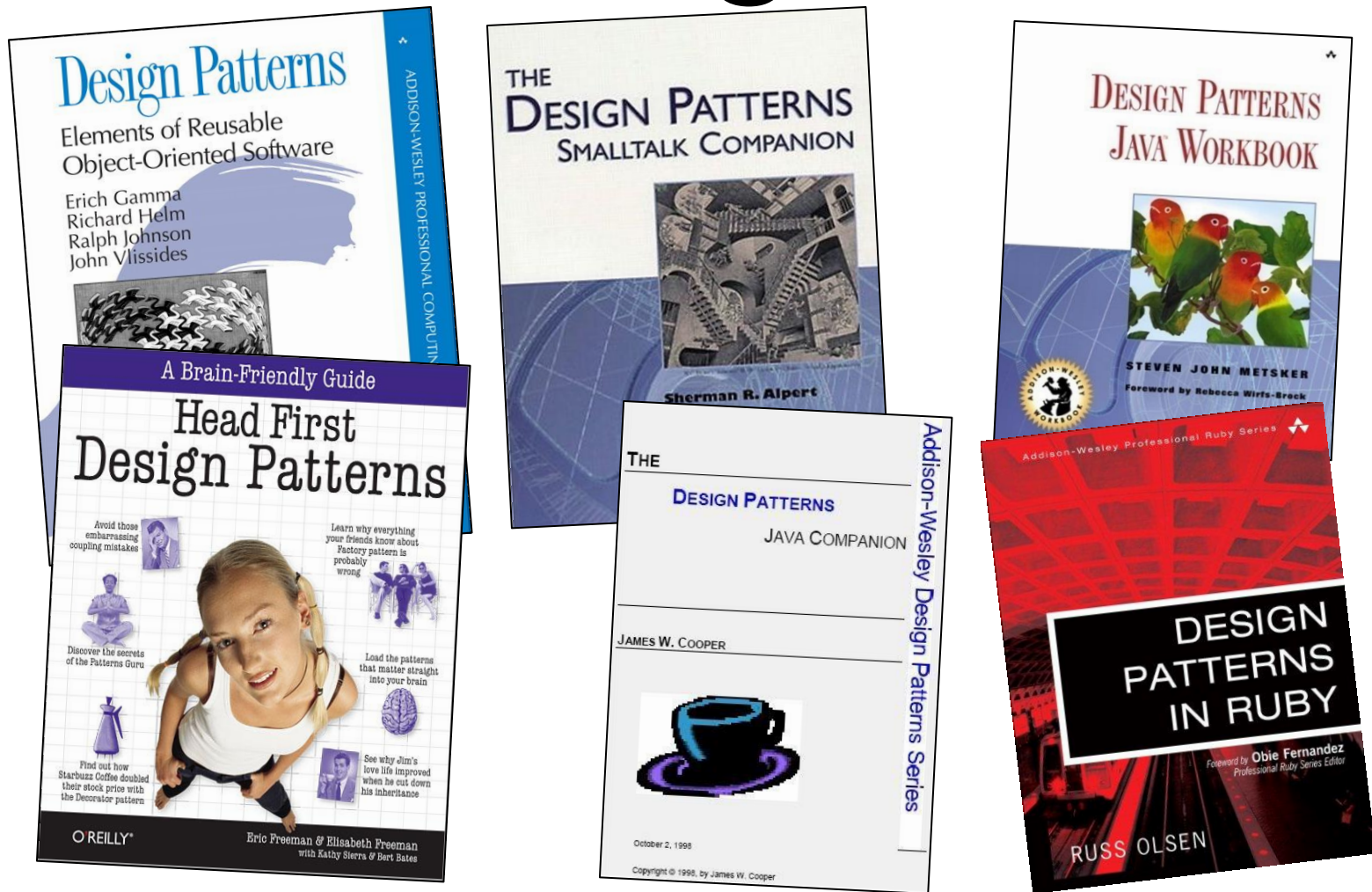
- Null Proxies



Iteración 5 - Resolución



Bibliografía



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tel: 54+11+5299 5400

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