

2009 - 2010



Inginerie Software pentru Comunicatii (ISC / RST)

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Suport curs: <http://discipline.elcom.pub.ro/isc/>

Moodle: <http://electronica07.curs.ncit.pub.ro/course/category.php?id=4>

Continut curs

1. Introducere in ingineria software

- 1.1. Necesitatea unei abordari sistematice a dezvoltarii software
- 1.2. Abordari si metodologii larg utilizate in ingineria software

2. Introducere in limbajul UML

- 2.1. Definirea, rolul si istoricul limbajului de modelare unificat (UML)
- 2.2. Tipuri de diagrame UML. Organizarea ierarhica a diagramelor

3. Diagrame UML statice

- 3.1. Diagrame UML de clase
- 3.2. Diagrame UML de obiecte
- 3.3. Diagrame UML de pachete
- 3.4. Diagrame UML de componente
- 3.5. Diagrame UML de structuri compozite
- 3.6. Diagrame UML de *deployment* (amplasare)

Continut curs

4. Diagrame UML dinamice

- 4.1. Diagramele UML de caz de utilizare
- 4.2. Diagrame UML de comunicare si de robustete
- 4.3. Diagrame UML de secventa si de sumar al interactiunilor
- 4.4. Diagrame UML de masini de stari
- 4.5. Diagrame UML de activitati
- 4.6. Diagrame UML de timp

5. Introducere in procesul de dezvoltare Rational unificat (RUP)

- 5.1. Organizarea iterativa a proiectelor
- 5.2. Fazele si activitatile procesului RUP

6. Introducere in managementul si organizarea proceselor de dezvoltare

7. Elemente de reutilizabilitate a software-ului. Pattern-uri de proiectare

A picture is worth more than 1024 lines of code

3. Diagrame UML statice

3.5. Diagrame UML de structuri compozite

Diagramele de clase si de obiecte compozite

Diagrama de clase

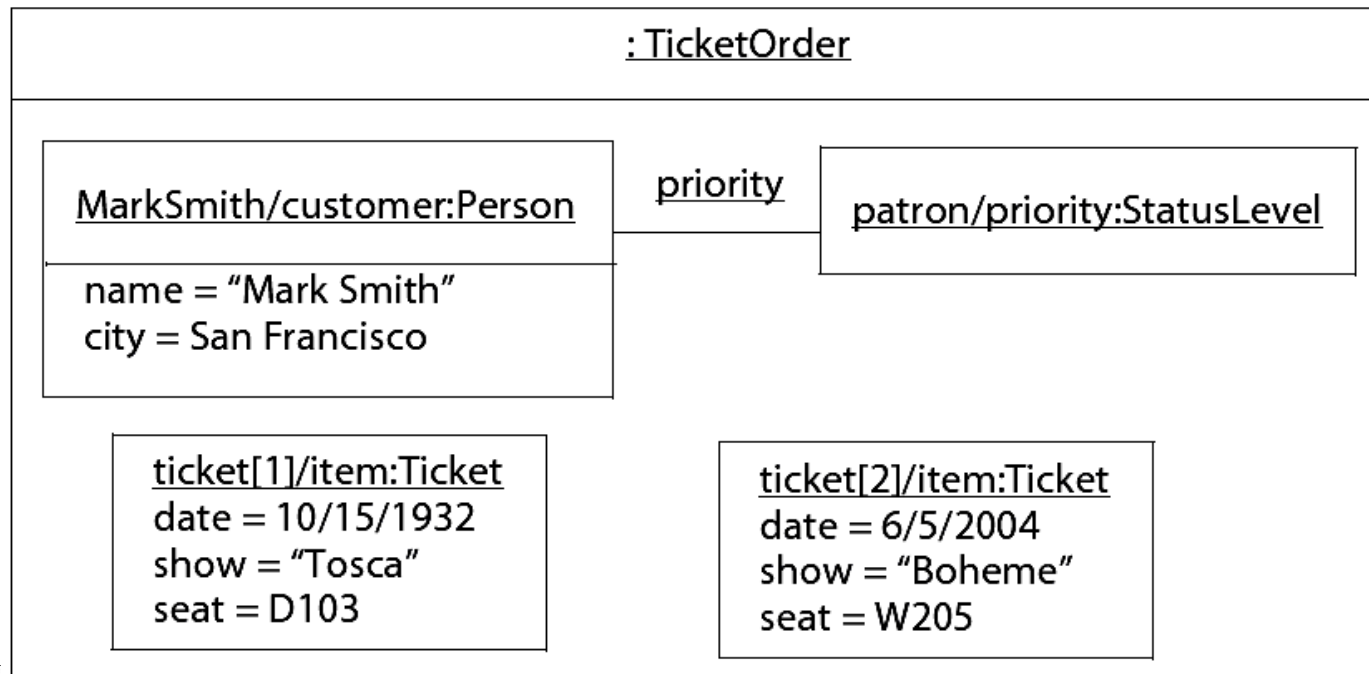
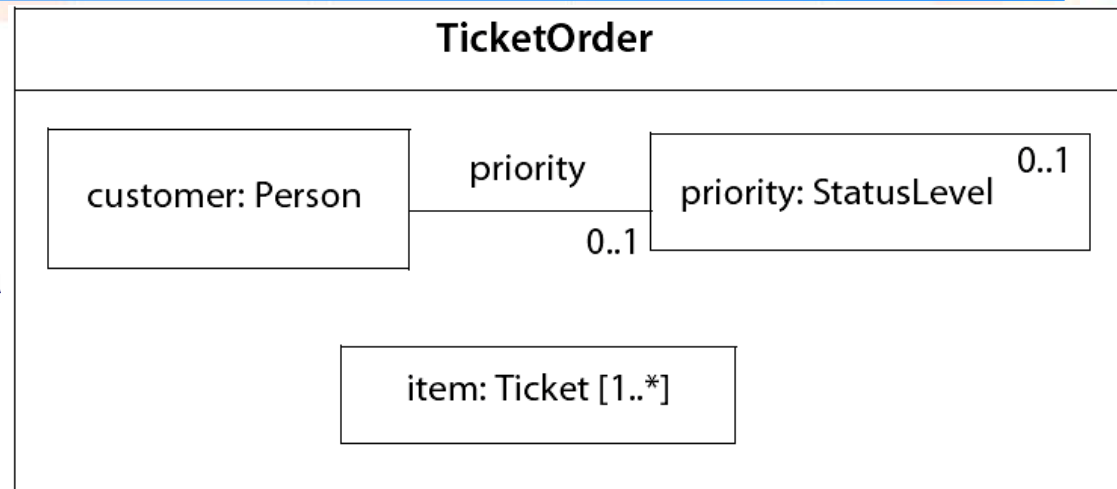
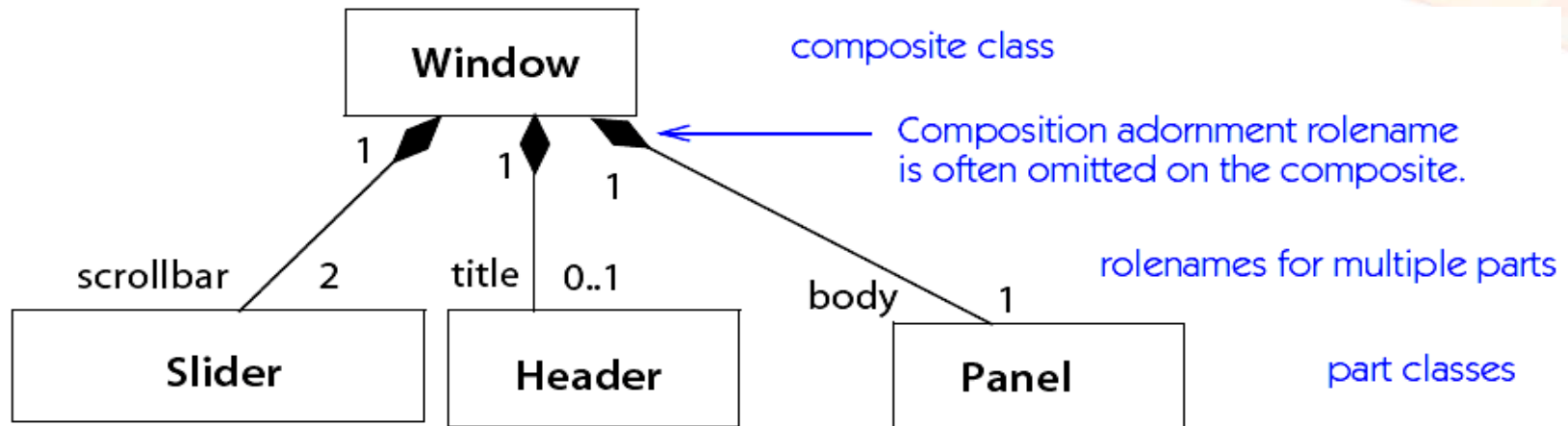


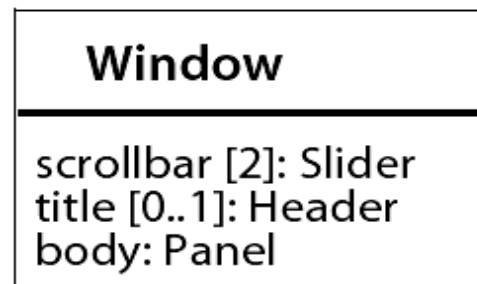
Diagrama de obiecte

Relatii intre clase

Compunerea



poate fi echivalata cu attribute

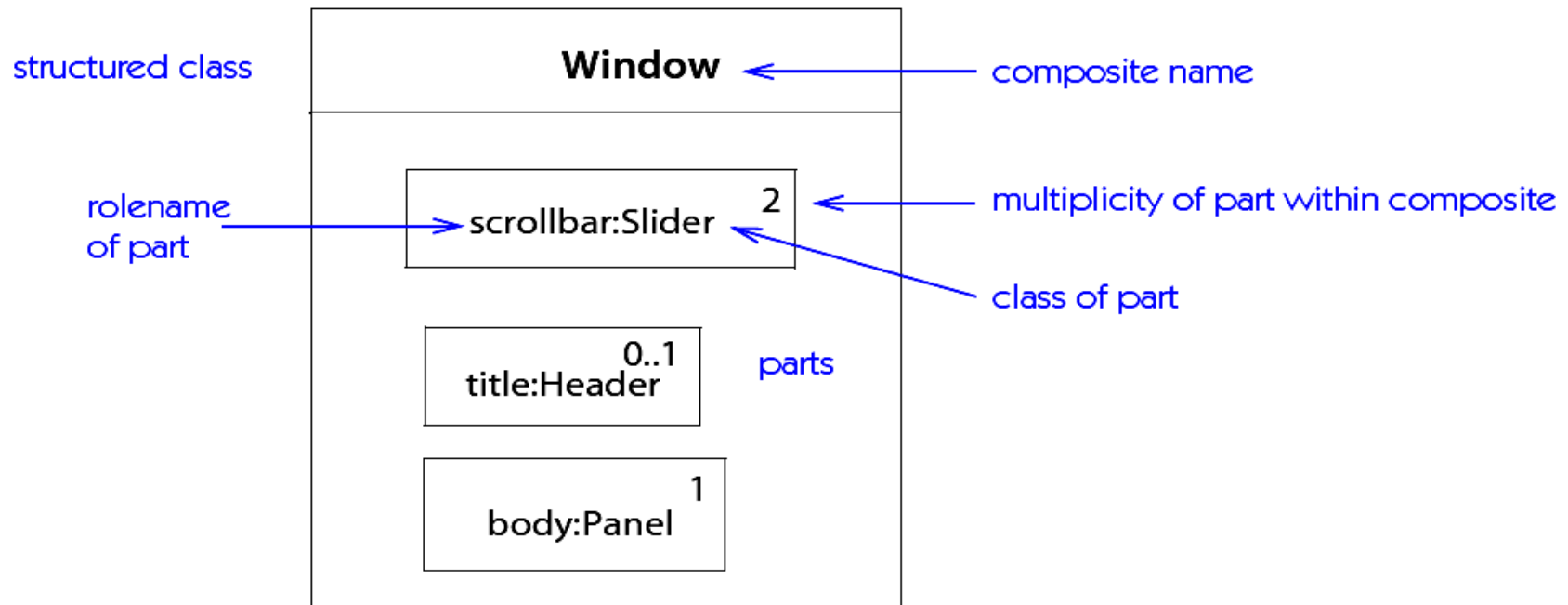
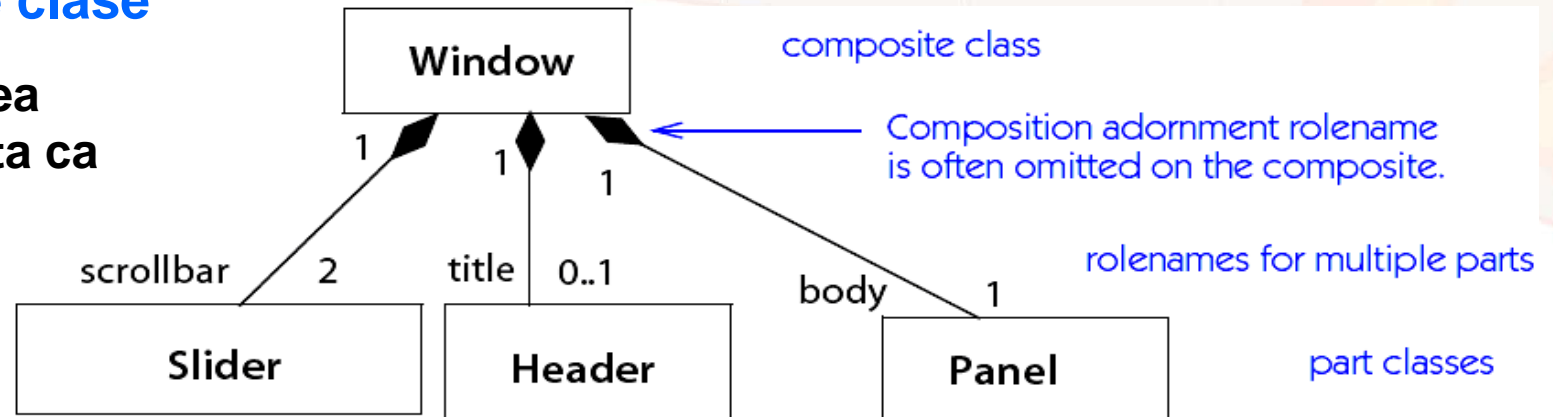


Avoid attributes for objects unless they are unshared and implementation-based.

Attributes are a form of composition

Relatii intre clase

**Compunerea
reprezentata ca
o clasa
compozita**



Diagramele de obiecte

Obiectele compozite sunt figurate ca si cele clasice, cu diferenta ca **atributele sunt inlocuite de obiecte** sub forma textuala subliniata sau grafica

