# Objektorienterad programmering och modellering för IA

Snabb sammanfattning & övningar

### Dagens agenda

- Nästa inlämningsuppgift
- Snabb repetition av kursen
- Genom av mailfrågor
- Workshop

# Inläminingsuppgift 2

http://da361a.ia-mah.se/courses/da361a/assignments/U02.html

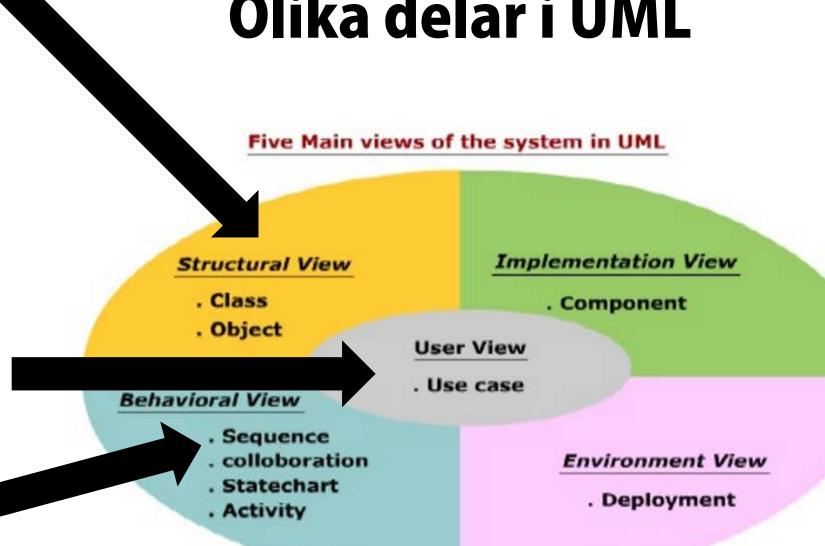
### Vad har vi lärt oss i kursen?

# UML

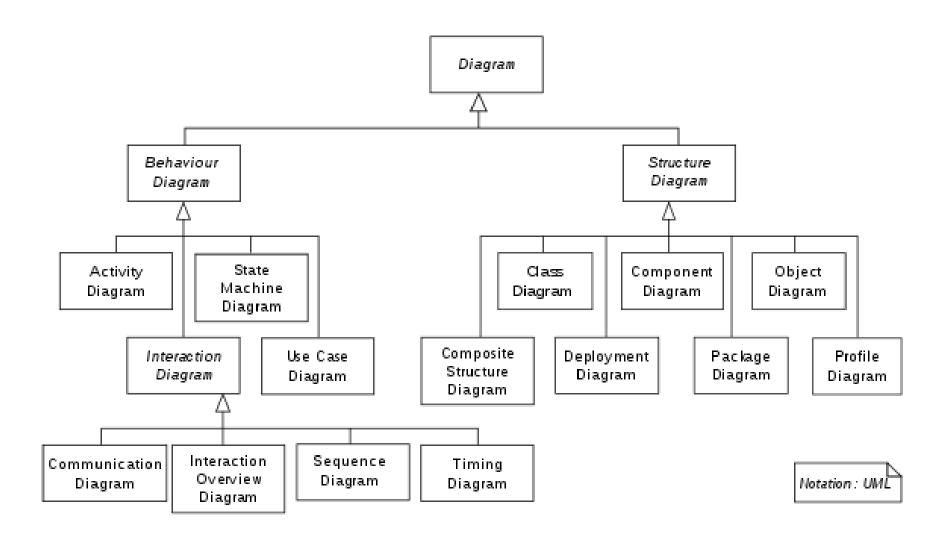
### Vad innebär arkitektur av ett system för:

- Slutanvändare
- Projektledare
- Systemingenjör
- Utvecklare
- Testare
- Underhållare av system

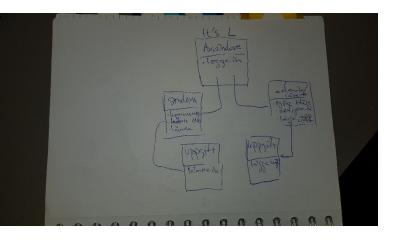
### Olika delar i UML

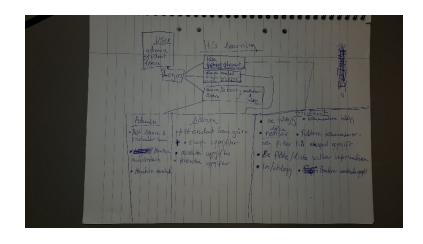


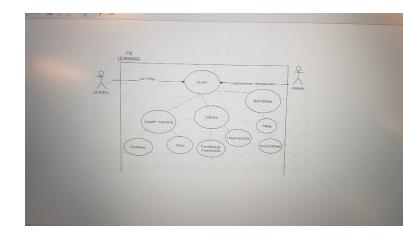
### Olika diagram inom UML

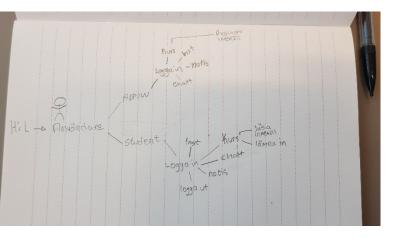


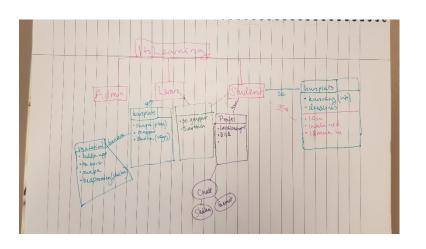
# Hur modellerar man upp ett system?

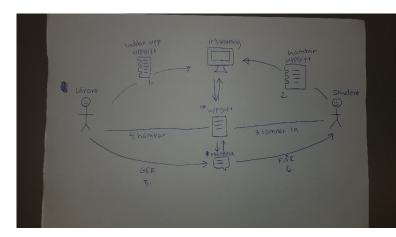




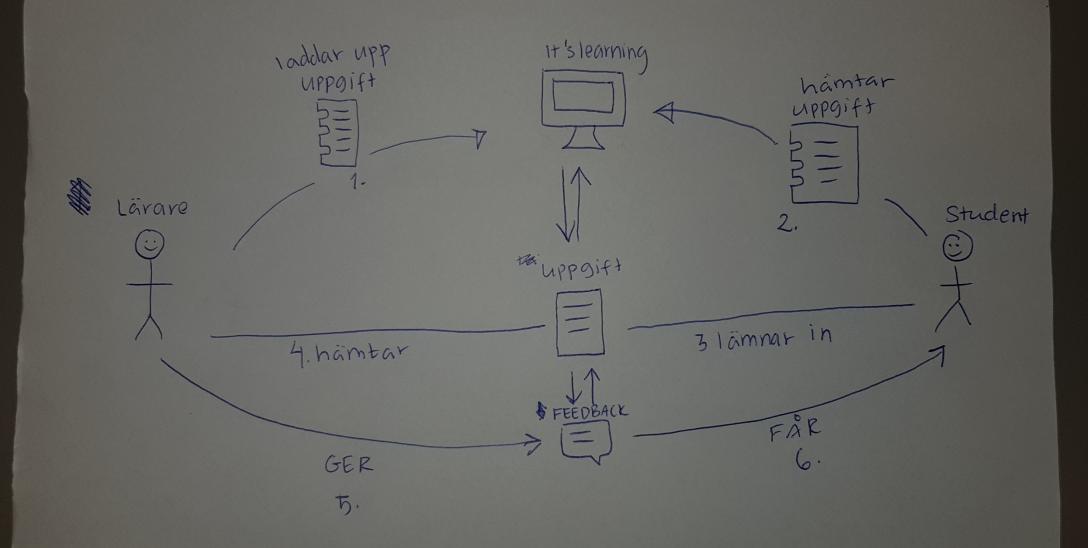




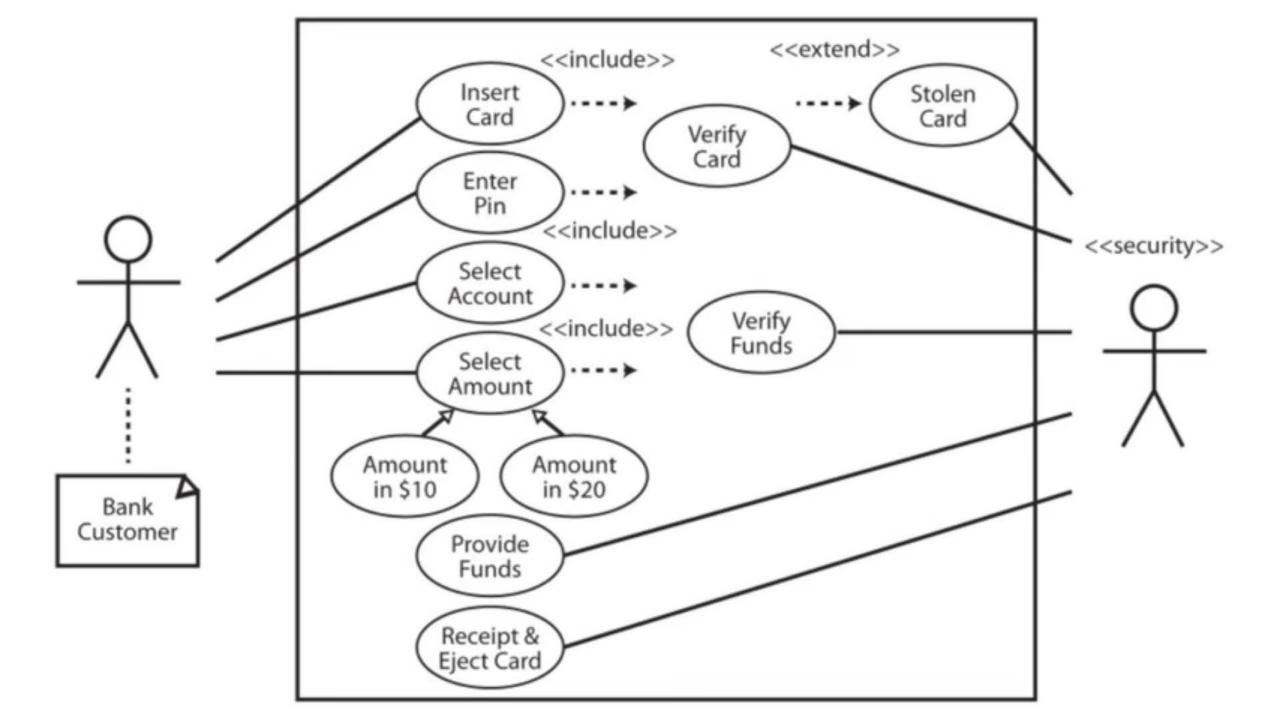




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# Har ni en annan bild av system nu?





#### Person

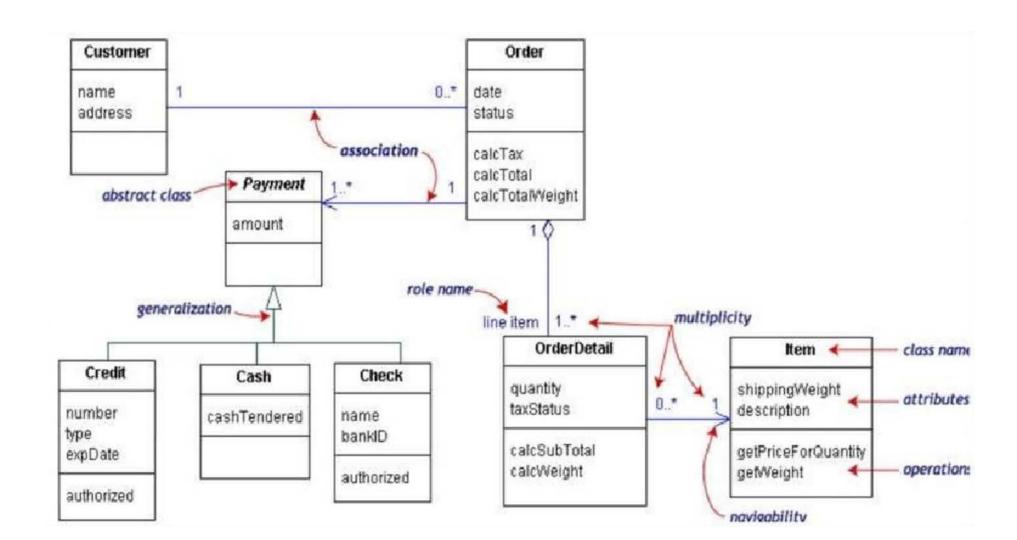
- + Name: string
- + Age: integer
- + Gender: string
- + go()
- + talk()
- + sleep()

#### Klassdiagram

Dog datatyp name : str breed : str age : int attribut colors : list asleep : bool=False print\_fur\_colors() : str set\_name(name: str) metoder \_\_str\_\_() : str

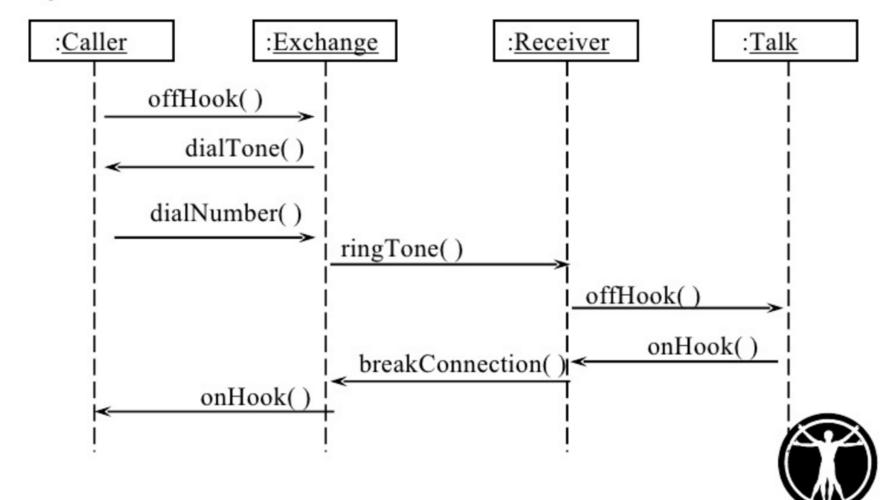
```
class Dog(object):
    def __init__(self, name, breed, age, colors):
        self.name = name
        self.breed = breed
        self.age = age
        self.colors = colors
    def print_fur_colors(self):
        Prints out all fur colors of the dog
        print "%s has the following fur colors: %s" % (self.name, ", ".join(self.colors))
    def __str__(self):
        String representation of a dog
        return "Woof! I'm %s the %s (%s years)." % (self.name, self.breed, self.age)
# ex
dog = Dog("Doug", "Pug", 8, ["white", "black", "beige"])
print dog # the method __str__ is called
# => Woof! I'm Doug the Pug (8 years).
dog.print_fur_colors()
# => Doug has the following fur colors: white, black, beige
```

### Exempel på klassdiagram

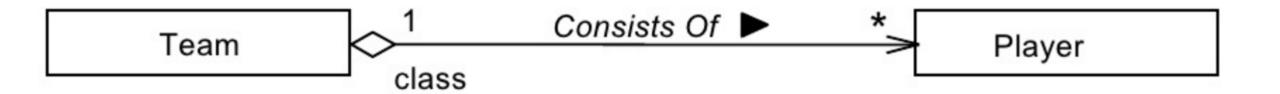


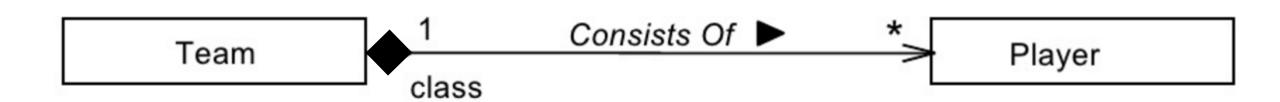
### **Sekvensdiagram => Betéende**

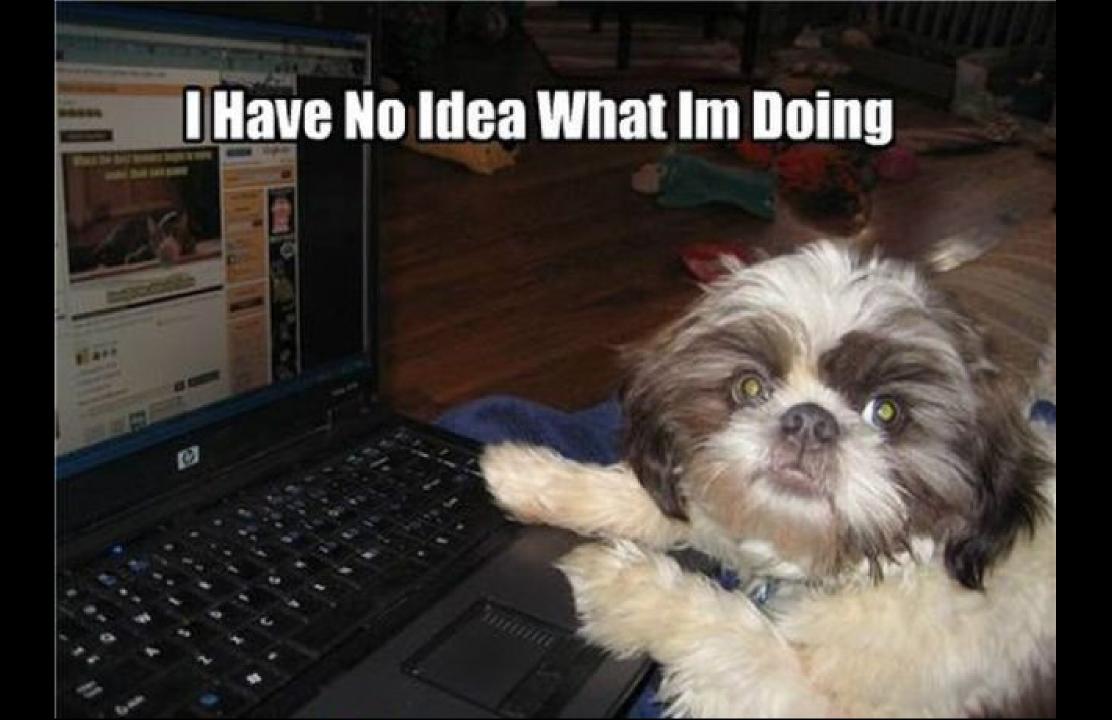
#### Telephone Call



# Klassmetoder, klassdiagram, klassattribut







### Learn by **DOING**.



### https://goo.gl/yc6NFf