"Is a relationship"

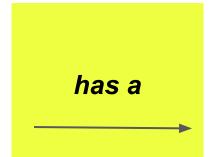
Recap

- Difference between interpreted and compile language
- A c++ compiler, e.g. g++, compiles the code and creates an executable
- Each C++ application requires a main function
- A class ...
 - ... can be viewed as a blueprint for an object
 - ... contains members; methods (= function) and fields (= variables)
 - ... can be used as a type
- 'Has a relationship'; a class can contain fields (=variables).
 - Examples of standard types are int, float and char.
 - An example of a self defined type is a class. E
 E.g. The class Speaker has a Tweeter and a Woofer object.

Recap

Speaker

Tweeter tweeter; Woofer woofer



Tweeter

float diameter; float coilPosition;

• • •

Woofer

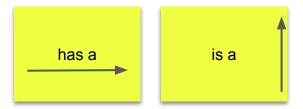
float diameter float coilPosition;

. . .

TEASER - "has a" vs. "is a"

- Noteer op 1 kleur post-it
 1 class per post-it!
- Dog
- Cat
- Person
- ElectronicDevice
- Student
- Teacher
- Pet
- Animal
- Laptop
- MobileDevice

- Orden de post-its én duid met een andere kleur post-it de relatie:
- "has a"
- "is a"



3. Voeg ev. extra classes toe.

Dog bark() eat() sleep()

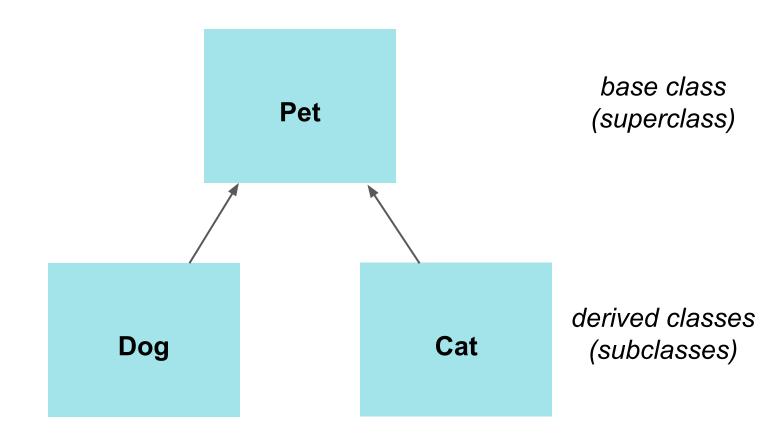
Dog bark() eat() sleep()

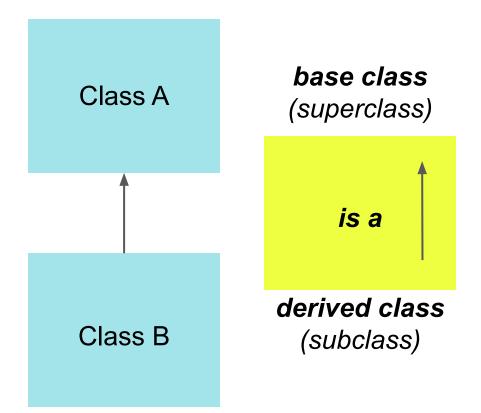
Duplicate code!

Dog
bark()
eat()
sleep()

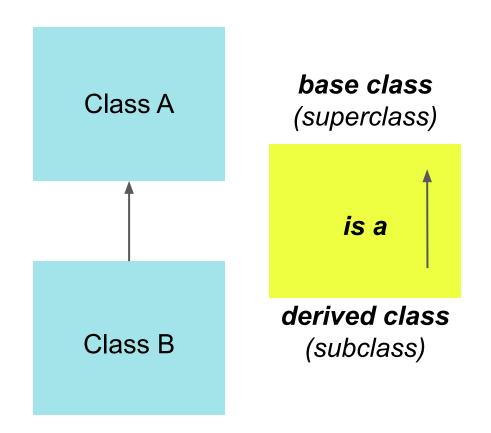
Duplicate code... is dat erg?

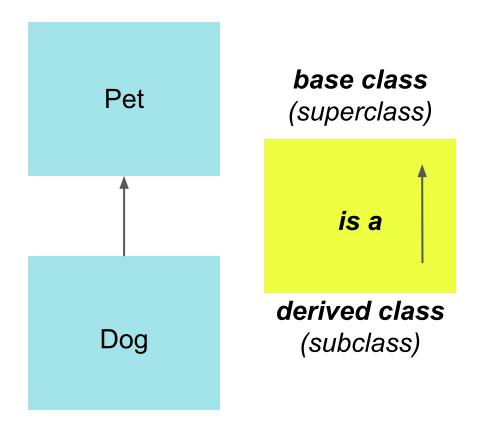
Dog
bark()
eat()
sleep()

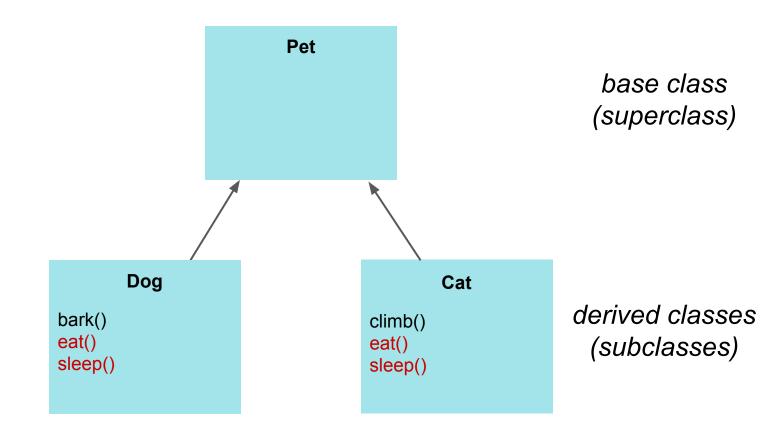


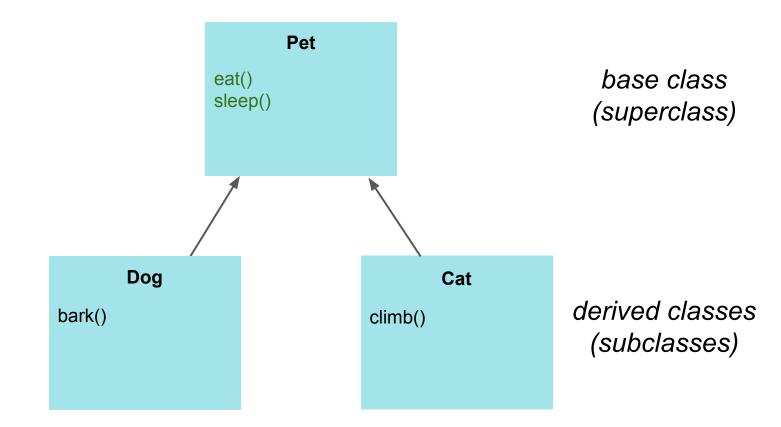


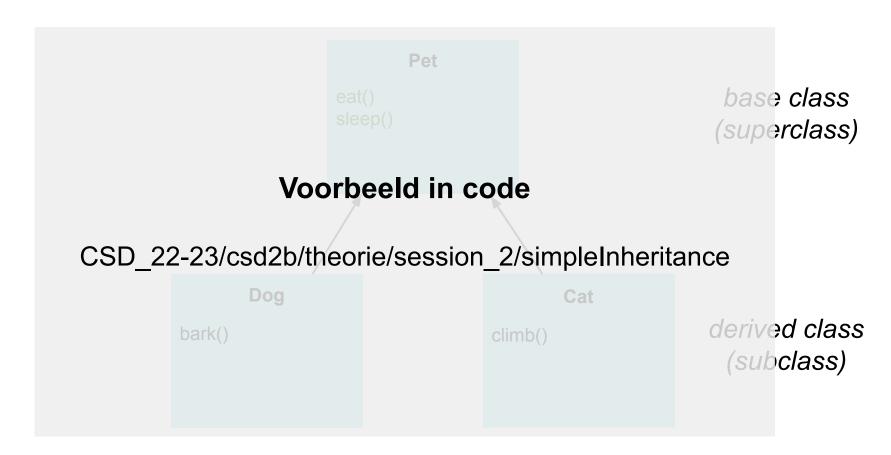
Waarom staat die pijl naar boven en niet naar beneden gericht?











Inheritance in een MT context

Synthesizer class voorbeeld

