

CS2OSD Tutorial 1

Draw a class diagram for the following cattery (cat breeding centre) system:

The system records all cats in the cattery, with their name and breed, age, date of birth, and price. A cat has a gender (male or female).

Cats have a father and mother (possibly unknown), and a set of prizes they have won in competitions. A prize has a title, show (strings) and date and value (integers). Finally, there should be a class *Breeder* representing the cat breeder, this has a name and a set of cats that it owns.

Do you think inheritance should be used to represent different breeds of cat as subclasses of a class *Cat*?



Figure 1: Ocelot



Figure 3: Somali



Figure 2: Tabby point Siamese