Deligation ¶

If classes are objects what is the difference between types and instances?

When I talk about "my cat" I am referring to a concrete instance of the "cat" concept, which is a subtype of "animal". So, despite being both objects, while types can be specialized, instances cannot.

Usually an object B is said to be a specialization of an object A when:

- B has all the features of A
- B can provide new features
- B can perform some or all the tasks performed by A in a different way

Those targets are very general and valid for any system and the key to achieve them with the maximum reuse of already existing components is delegation.

Delegation means that an object shall **perform only what it knows best**, and **leave the rest to other objects**.

Delegation can be implemented with two different mechanisms:

1. Composition (explict deligtion)
2. Inheritence (implicit deligation)

In [ ]: