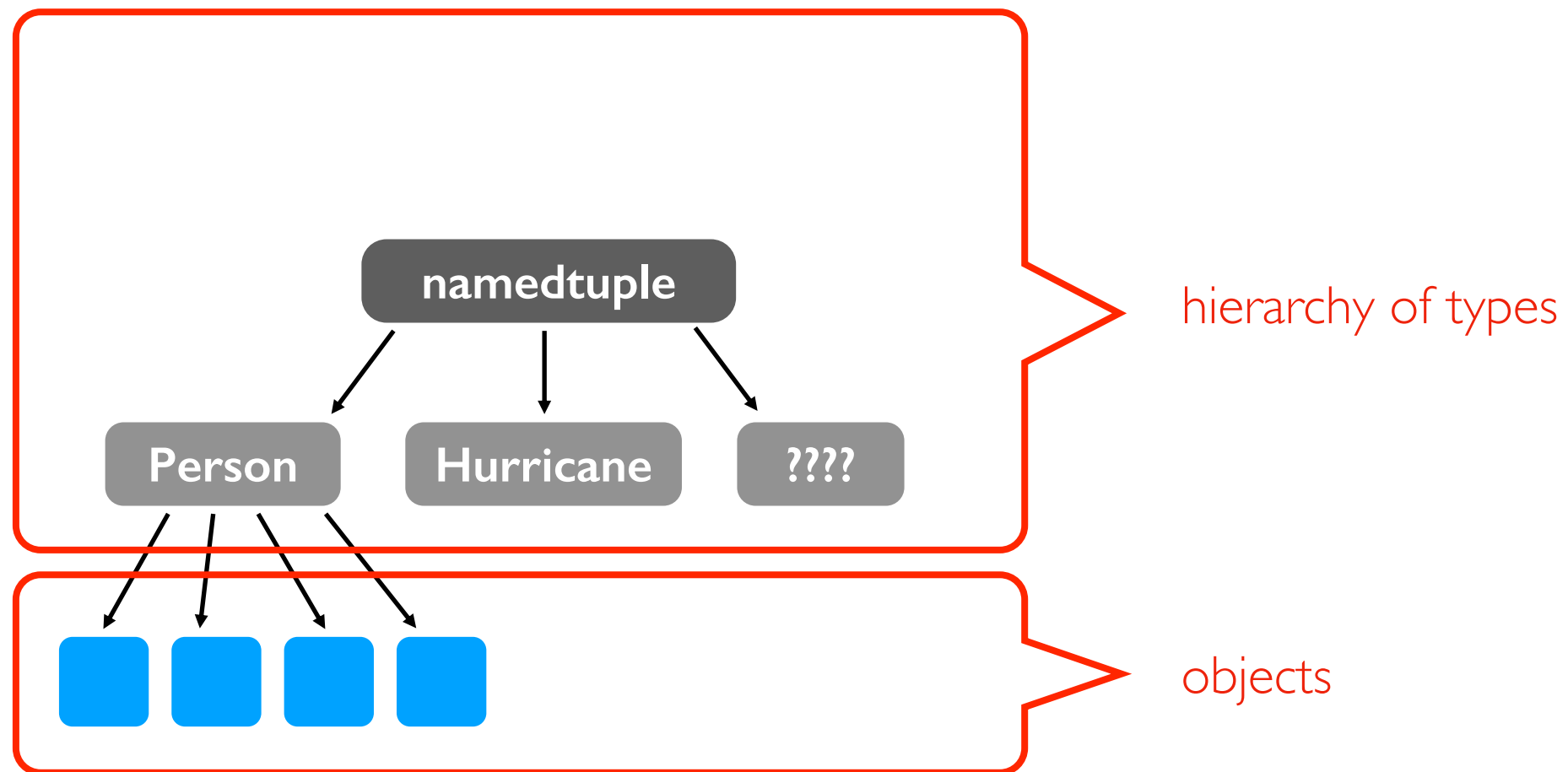


[320] Inheritance

Meenakshi Syamkumar

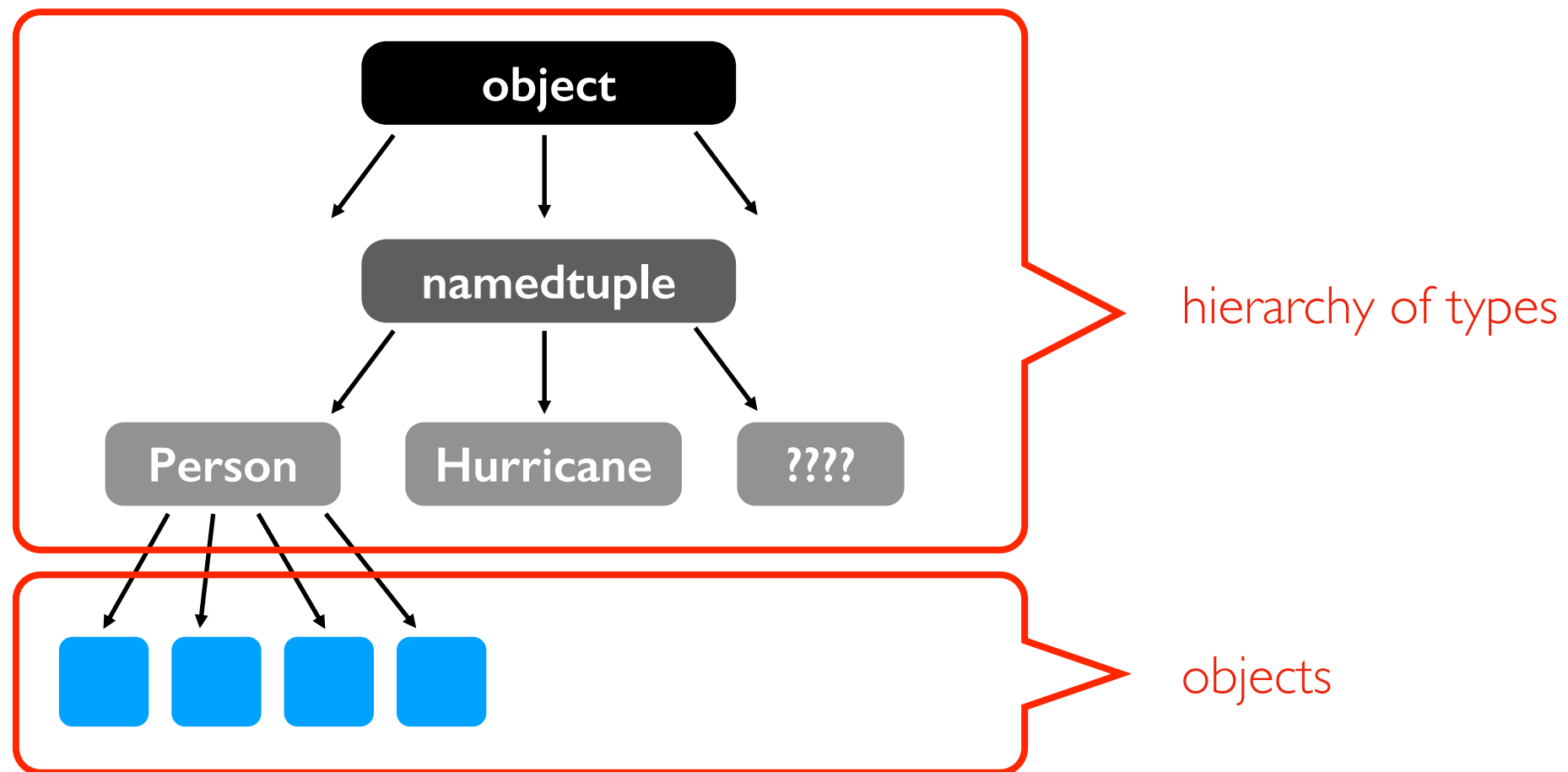
Inheritance

Types, Sub Types, and Objects



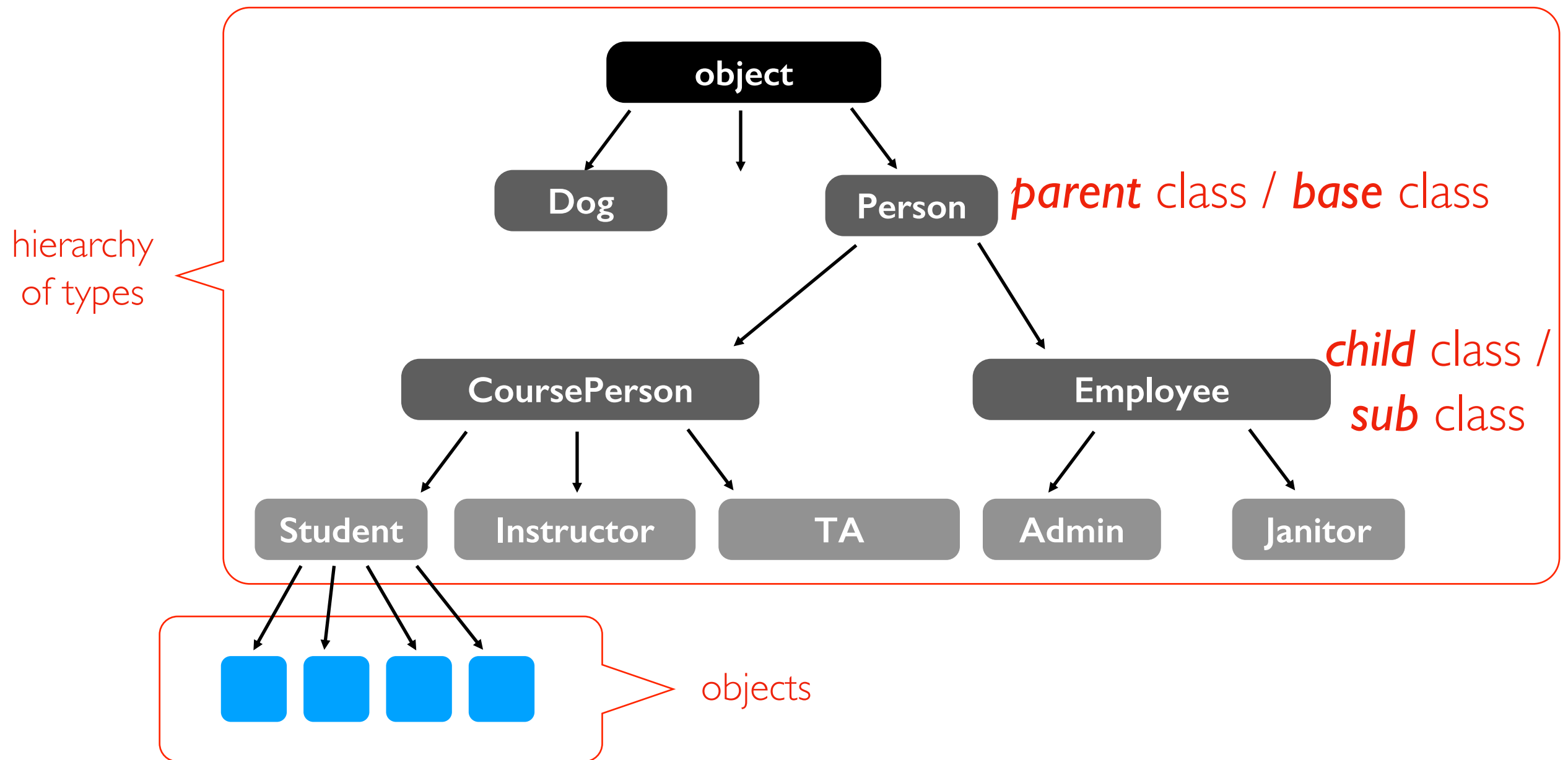
classes (and types in general) form a hierarchy

Types, Sub Types, and Objects



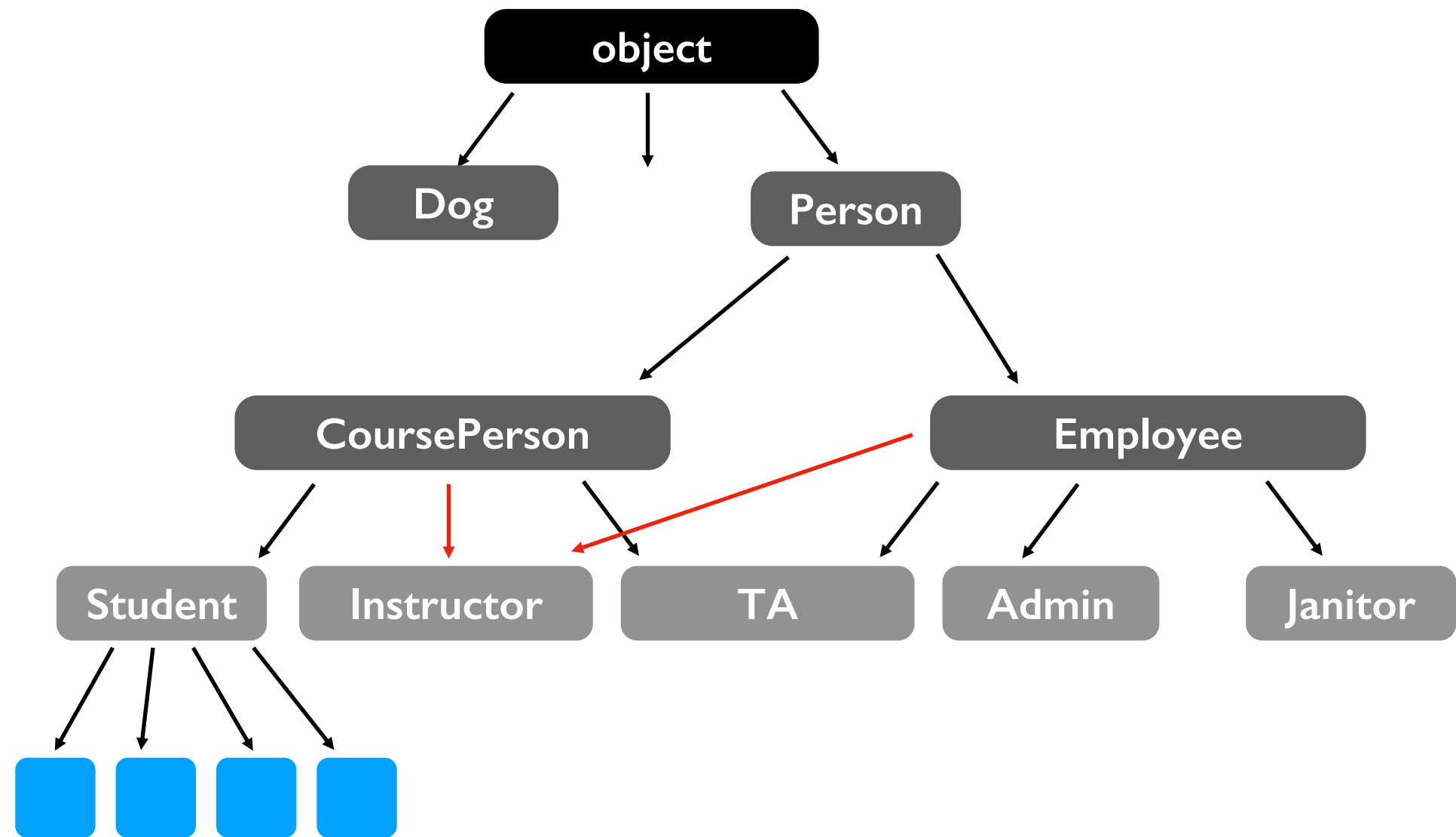
weird naming: the top type is called "***object***"

Types, Sub Types, and Objects



we can design the hierarchy with *inheritance*

Types, Sub Types, and Objects



multiple inheritance

Coding Examples

Principals

- method inheritance
- method resolution order
- overriding methods, constructor
- calling overridden methods
- abc's (abstract base classes)