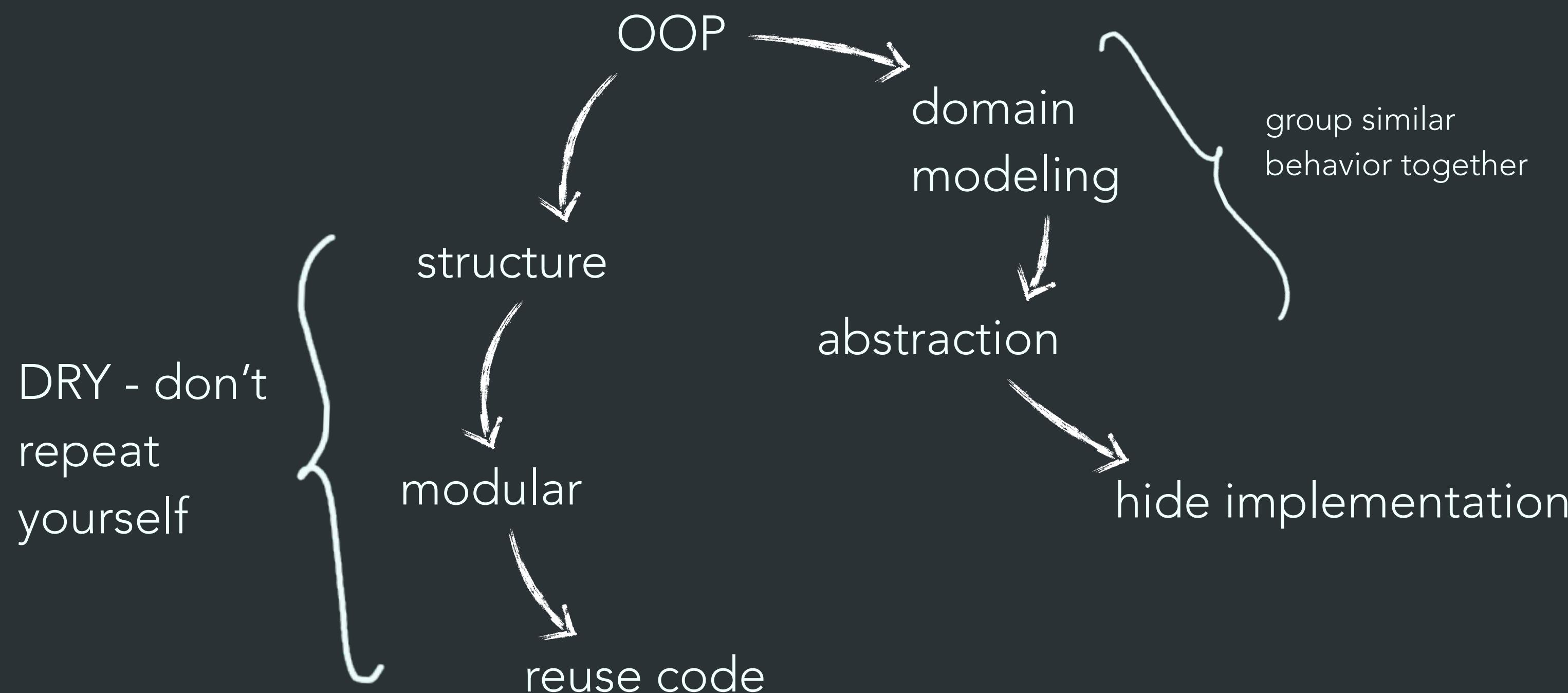




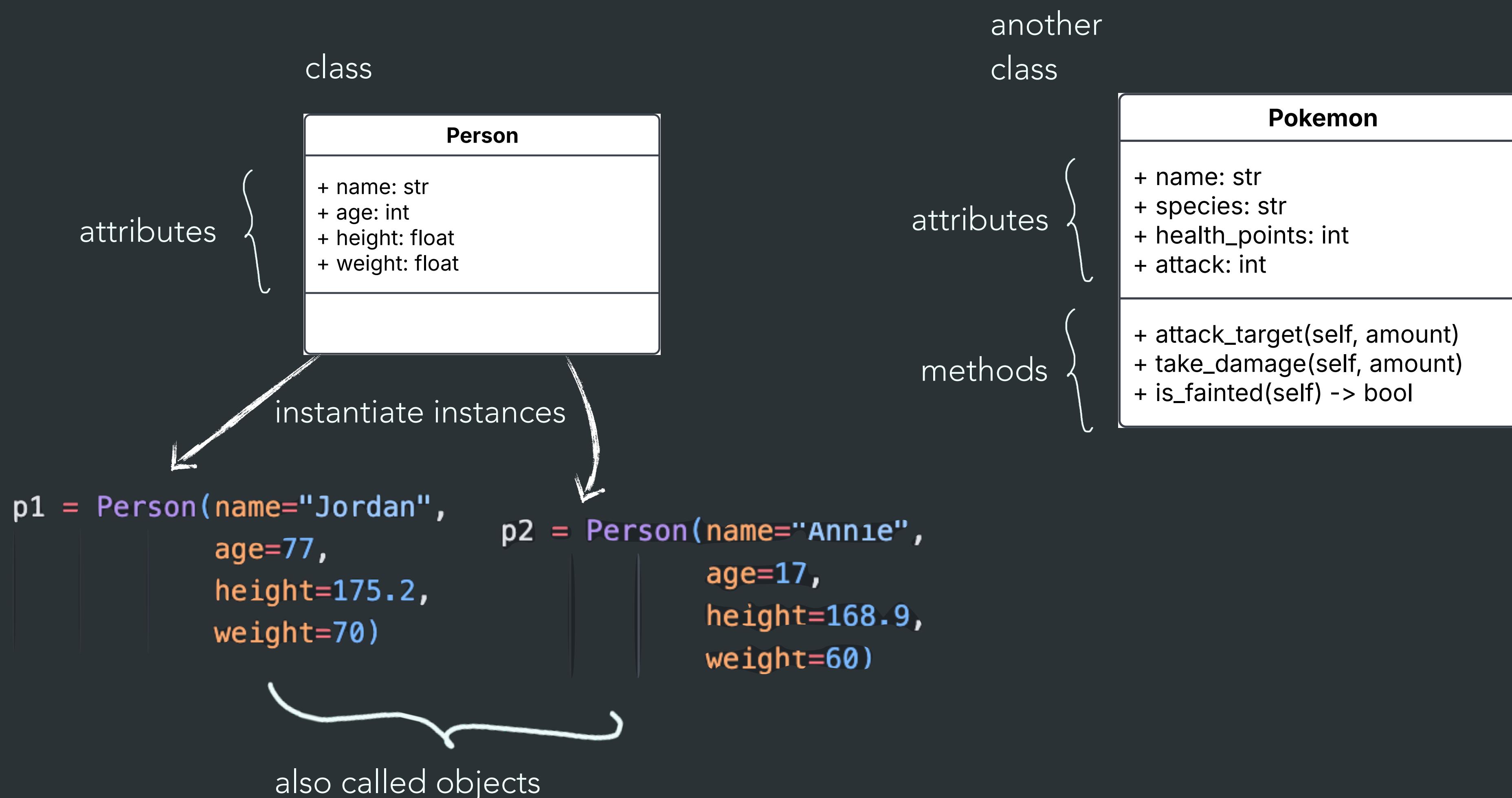
kokchun giang

fundamentals of  
**object oriented**  
**programming (OOP)**  
to structure and reuse  
code

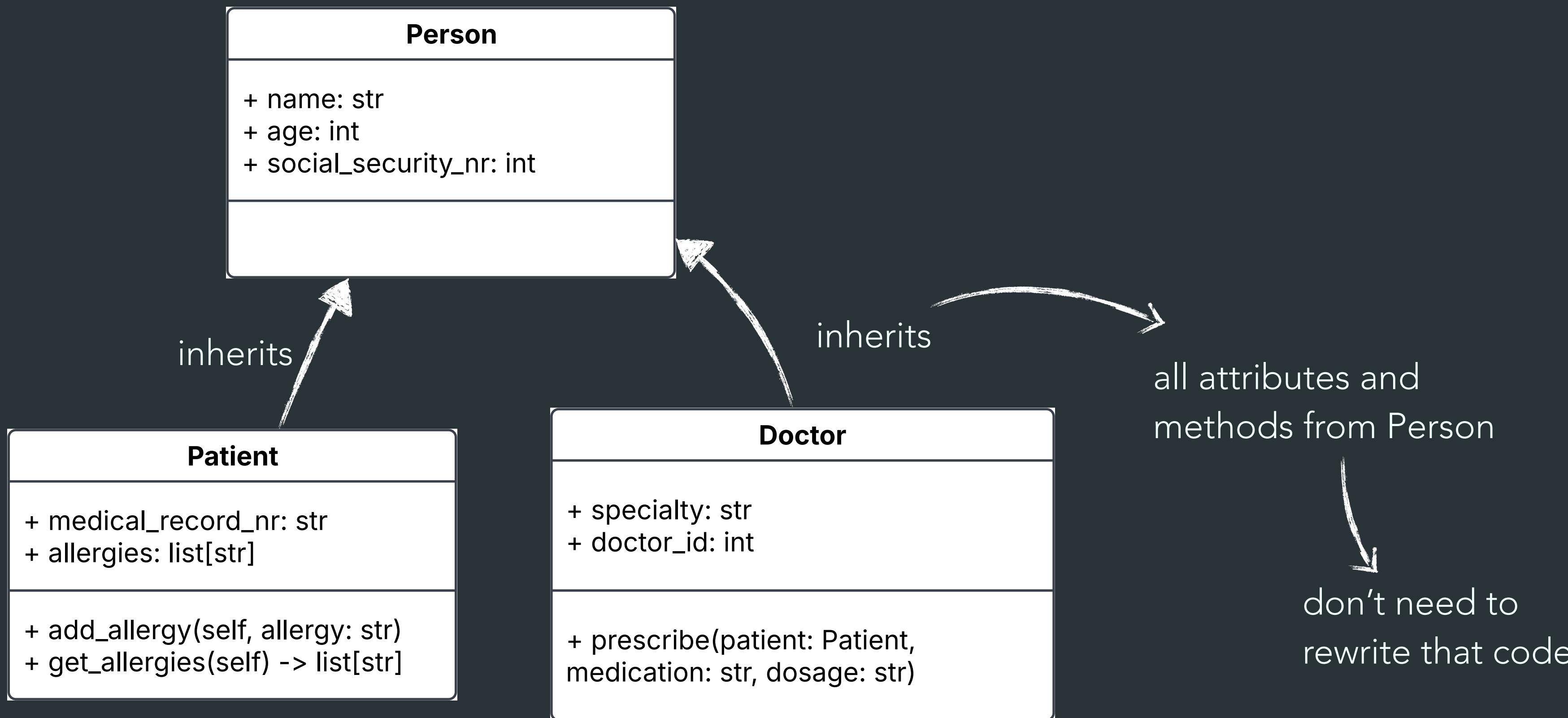
oop is a **programming paradigm** that organizes software design around objects



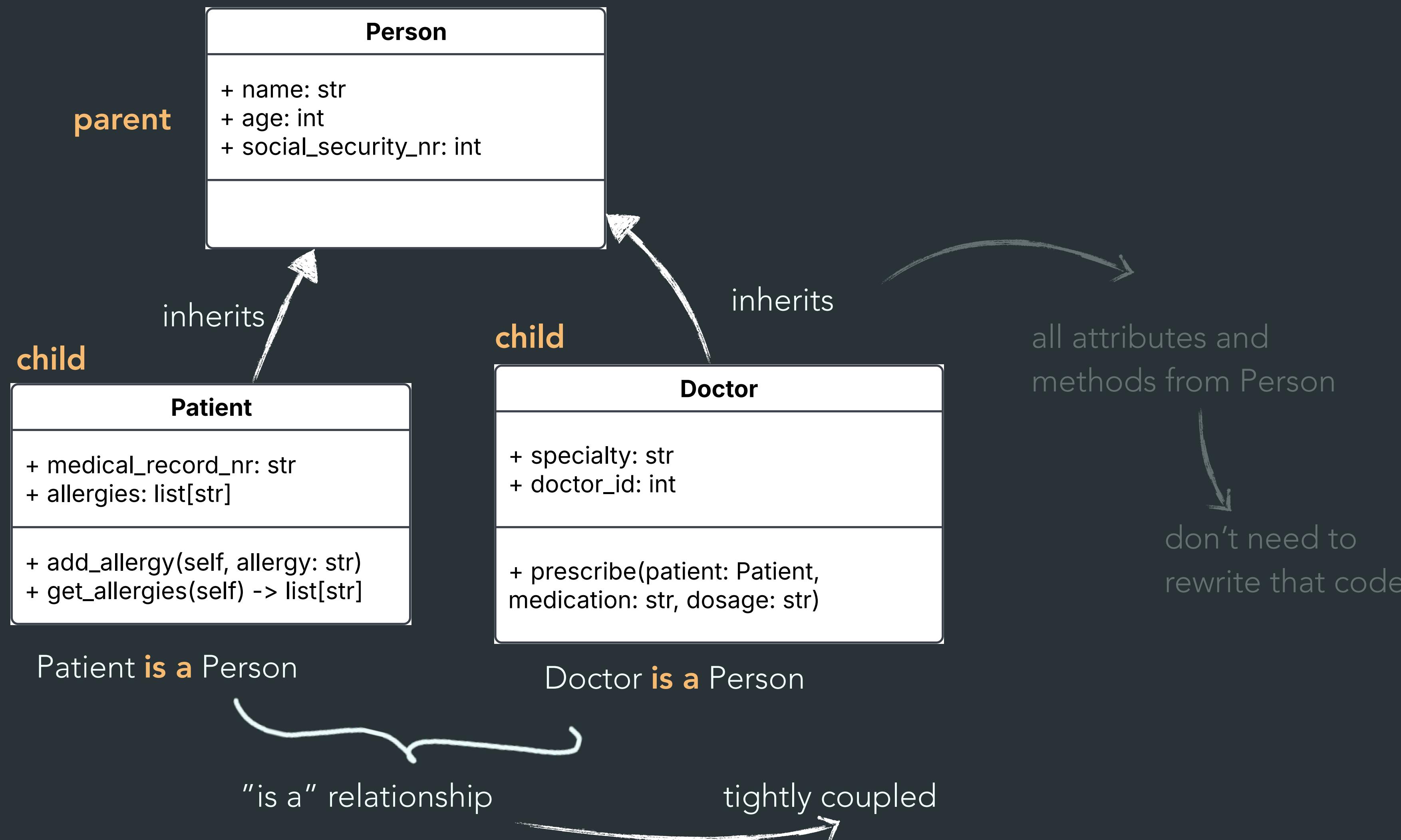
# we instantiate **instances** from a **class**



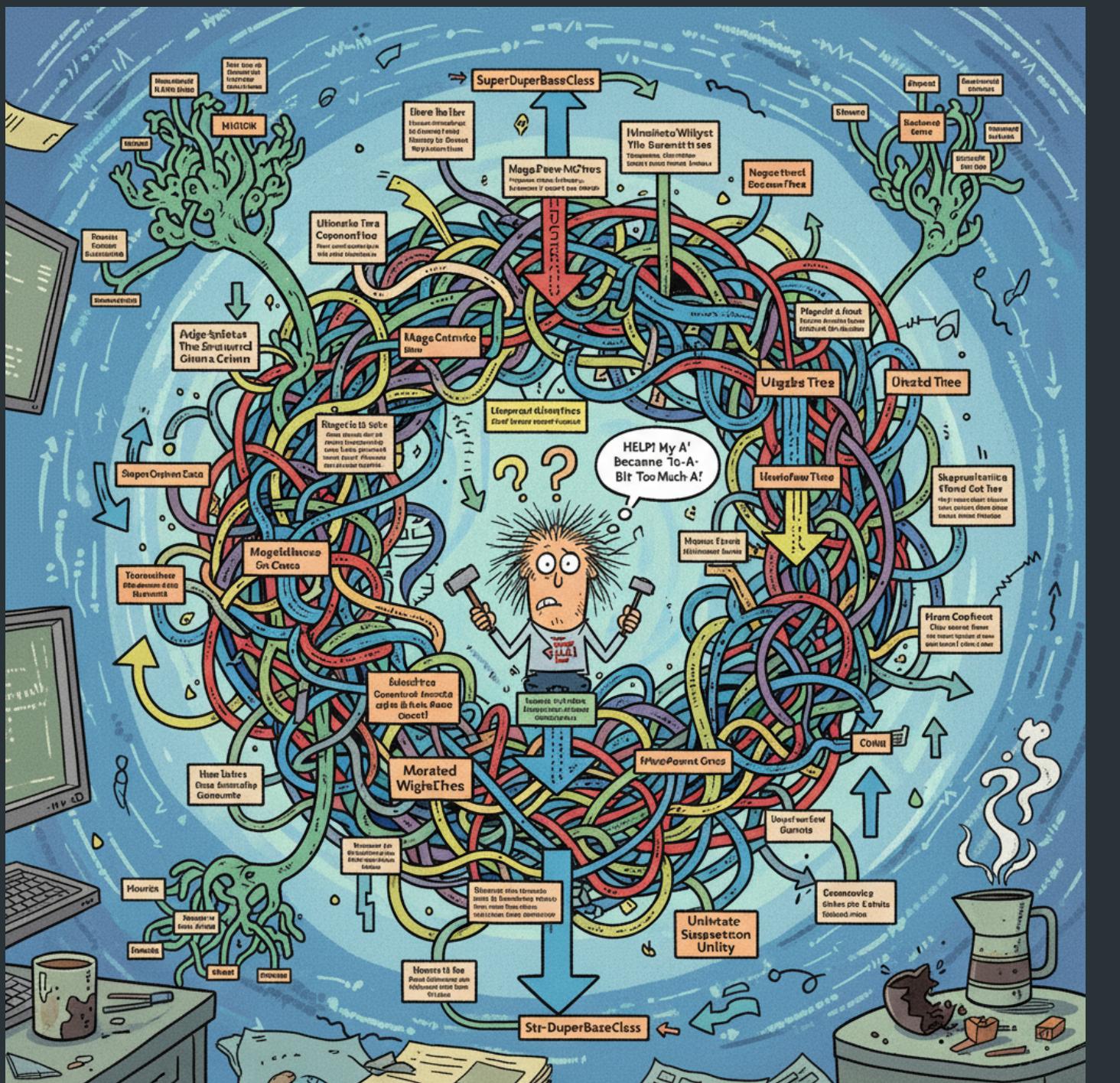
# inheritance to model the domain and reuse code



# inheritance to model the domain and reuse code



# relying too much on **inheritance** leads to spaghetti code



over reliance on  
inheritance

tightly coupled

objects  
entangled

hard to  
reuse code

hard to  
maintain

# favor **composition** over inheritance

composition is less  
coupled than inheritance



has-a relationship

inheritance is tightly  
coupled



is-a relationship