**Cheatsheet 2**

**What is composition?**

* Composition is a concept in OOP where a class is constructed by *incorporating* objects of *other classes*.
* It enables the creation of *complex structures*, it combines simpler, independent components.
* One class contains an object of another class.

**Why do we use composition?**

* It provides a flexible alternative to inheritance.
* Allows better code organization and reduces dependencies between classes.
* It promotes the creation of highly cohesive code, and it makes it easier to modify and extend the functionality of the system.
* It also makes the code easier to read.

**How do we use composition in our code?**

* By creating instances of *one class* within *another class* and utilizing their *functionalities*.
* Rather than relying on inheritance hierarchies, classes work *together* through *composition*.
* It improves coding maintainability and reduces the risk of tightly coupled designs.

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