

SRP: The Single Responsibility Principle

One and only one reason to change

- A **module** should be responsible to one, and only one, **actor**.
 - Module: a source file, or a cohesive set of functions and data structures
 - Actor: a group (one or more) of people (e.g., user, stakeholder) who require the *change*
- Good practices
 - Separate the code that different actors depend on
 - Separate the code that supports different actors
 - Facade pattern

OCP: The Open-Closed Principle

- Bertrand Meyer, 1988
 - A software artifact should be open for extension but closed for modification.
- Goal
 - make the system easy to extend without incurring a high impact of change
- Practice
 - use SRP to separate the system into components and arrange them into a dependency hierarchy with DIP to protect higher-level components from changes in lower-level components