

Principles of Modularity

- High cohesion – Modules should contain functions that logically belong together
- Weak coupling – Changes to modules should not affect other modules
- Law of Demeter – talk only to friends

Call your Friends

A method M of an object O should only call methods of

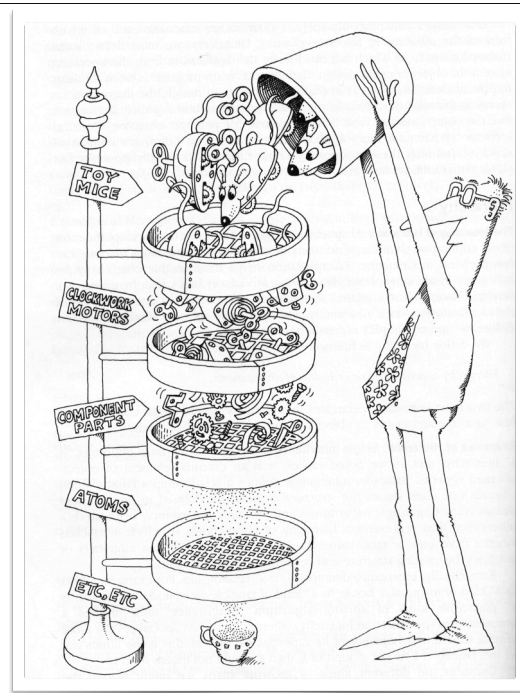
1. O itself
2. M's parameters
3. any objects created in M
4. O's direct component objects



“single dot rule”

Hierarchy

“Hierarchy is a ranking or ordering of abstractions.”



Hierarchy principles

- Open/Close principle – Classes should be open for extensions
- Liskov principle – Subclasses should not require more, and not deliver less
- Dependency principle – Classes should only depend on abstractions