Component Cohesion
Which classes belong in which components?

- Cohesion

  - A module performs one, and only one function

  - Component cohesion — Reusability v.s. Develop-ability

- Principles

  - REP: the reuse/release equivalence principle

  - CCP: the common closure principle

  - CRP: the common reuse principle

The Reuse/Release Equivalence Principle
The granule of reuse is the granule of release

- The component must be tracked through a release process with release numbers (or versions)

  - Compatibility issues among different versions

  - Release notifications and documentation

- Classes and modules that are grouped together into a component should be releasable together

  - Hard to decide what to be grouped (compensated for by CCP & CRP), but

  - Easy to detect the violation