

# Component Coupling

## Dealing with the relationships between components

- ADP: Acyclic dependency principle
  - Allow no cycles in the component dependency graph
- SDP: Stable dependency principle
  - Depend in the direction of stability
- SAP: Stable abstractions principle
  - A component should be as abstract as it is stable

# The Acyclic Dependency Principle

## Unentangle development and integration

- Problem: ‘the morning after syndrome’
  - When many developers are modifying the same source files
- Solution One: Weekly Build
  - Develop independently, integrate regularly
  - Integration burden can grow with the project size, leading to high risks
- Solution Two: Releasable Components
  - Partition the development into releasable components
  - Dependencies upon components don’t cause a cycle