

# The Stable Abstractions Principle

## Stable v.s. Abstract

- Stable components
  - High-level architecture and policy decisions
  - Can be flexible?
    - OCP — stable component should be abstract
    - Contain only interfaces and abstract classes
- Thus, dependencies run in the direction of abstraction

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## Measuring abstraction

- $N_c$ : the # of classes in the component
- $N_a$ : the # of interfaces and abstract classes in the component
- $A$ : Abstractness.  $A = N_a / N_c$ 
  - $A = 0$ : no abstract classes at all
  - $A = 1$ : abstract component