# The Stable Abstractions Principle
## Measuring abstraction

- Nc: the # of classes in the component

- Na: the # of interfaces and abstract classes in the component

- A: Abstractness. A = Na / Nc

  - A = 0: no abstract classes at all

  - A = 1: abstract component

# Main Sequence in A / I graph
## Locate the stable and flexible components

- Main Sequence

  - a locus of points defining reasonable positions

    - (0,1) and (1,0) are perfect, but

    - anywhere along the line between is also good

  - infer by finding the zones of exclusion

- Zones of exclusion

  - the zone of pain — highly stable and concrete

    - volatile components like database schema, concrete utils lib

    - non-volatile component is fine like String component

  - the zone of useless — highly abstract but no implementation