

# The Law of Demeter

“A method should only use:

- Instance fields of its class
- Parameters
- Objects it constructs with new

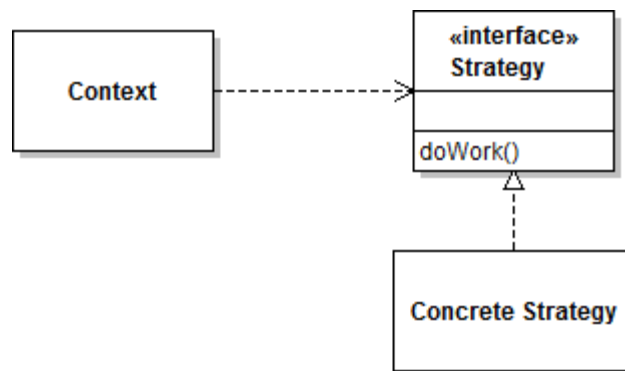
*In particular, a method should not ask another object to give it part of its internal state to work on.”*

---Textbook page 117

# The Strategy Design Pattern

[Source: page 192 in the textbook]

1. A class (the context) can benefit from different variants of an algorithm.
2. Clients of the context class sometimes want to supply custom versions of the algorithm.



# Vending Machine

- The machine sells a selection of different beers.
- All beers have a price, not necessarily the same.
- If a user selects a beer, the price is displayed. If the user adds enough coins within 60s, the beer is provided and change is returned.
- If a user adds coins without selecting a beer, the available balance is shown. If a user selects a beer that is worth less than the balance, the beer is provided and changed is returned. If not, an error message shows “insufficient balance”.
- A reset button resets any selection and returns the balance.

