

Conclusions











Conclusions



- We hope you'll draw benefits from the design solutions we have presented.
 - >When facing a new problem, one may be inspired by documented, solved problems.
 - Immediate recognize the trade-offs for each solution.
 - Common vocabulary helps programmers exchange design ideas, as well as maintain each other's code.

Conclusion (cont.)



- Try and isolate the minimun factor that changes.
 - > Example: strategy, bridge, observer ...
 - Denefits: avoiding code duplication; allowing others to later extend and configure your code.
 - Deware of: assumptions that are too narrow (not flexible) or too wide (hard to code; the common denominator problem).

Conclusions (cont.)



- You may sometime consider using composition instead of inheritance.
 - Example: bridge, decorator ...
 - Advantage: flexibility.
 - > Tradeoffs:
 - requires more coding
 - possibly more allocations
 - having 2 instances (wrapper and encapsulated) may cause confusion with type-checks,
 - Synchronization

Conclusions (cont.)



There is still room for creativity!

- Recognizing patterns may be nontrivial, as they may hide under very different facades.
- Adapting a pattern to the problem in hand.
- The art of combining patterns!

Conclusions (cont.)



- The documented solutions may have inspired you to invite new patterns of your own... but be cautious!
 - Could your new pattern be an existing one in disguise?
 - Will it be easy for others to understand and maintain?