Prototype



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Module Overview



Motivation

Contact Records

Shallow vs. Deep Copy

A Prototype Factory

Boost Serialization

Motivation

- Complicated objects (e.g., cars) aren't designed from scratch
 - They reiterate existing designs
- An existing (partially constructed design) is a Prototype
- We make a copy (clone) the prototype and customize it
 - Requires 'deep copy' support
 - Painful without metadata!
- We make the cloning convenient (e.g., via a Factory)

Prototype

A partially or fully initialized object that you copy (clone) and make use of.

Summary



To implement a prototype, partially construct an object and store it somewhere

Clone the prototype and then customize the instance

Ensure deep copying!