Factory Design Patterns

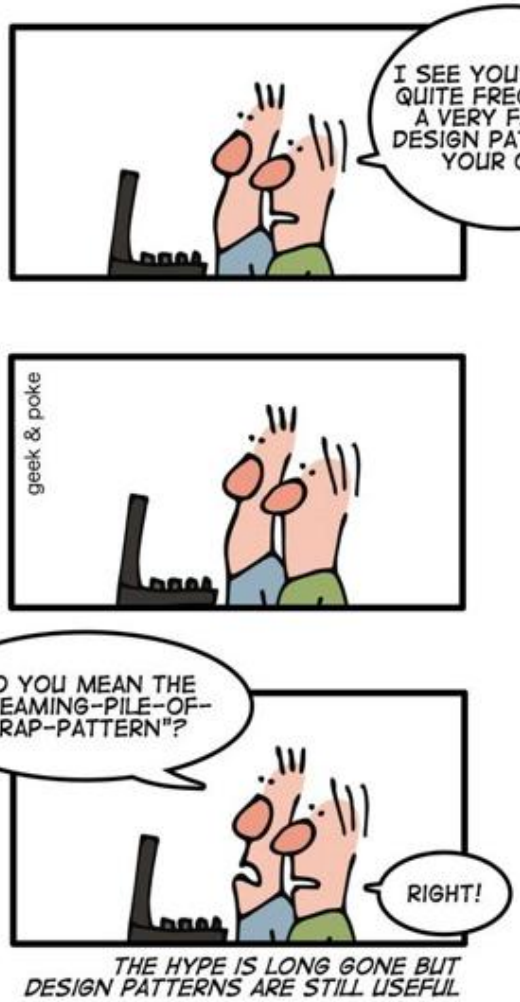
An overview

Content

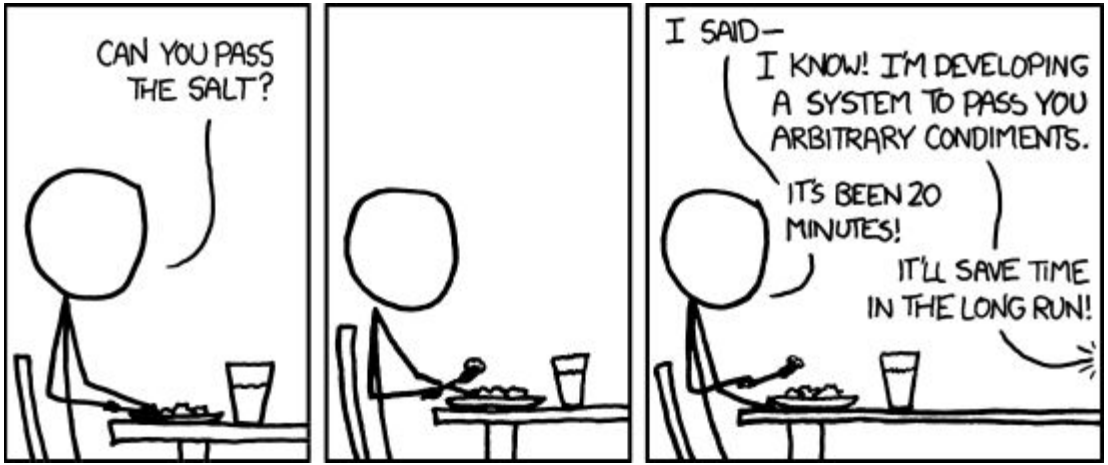
- Why do I care?
- Caution
- Factory
- Abstract Factory

Why do I care?

- Time-tested *template* solutions to recurring design problems
- Provides a common vocabulary that can be used during discussion
- Language neutral
- Once you learn them, you *might* use them



THE HYPE IS LONG GONE BUT DESIGN PATTERNS ARE STILL USEFUL

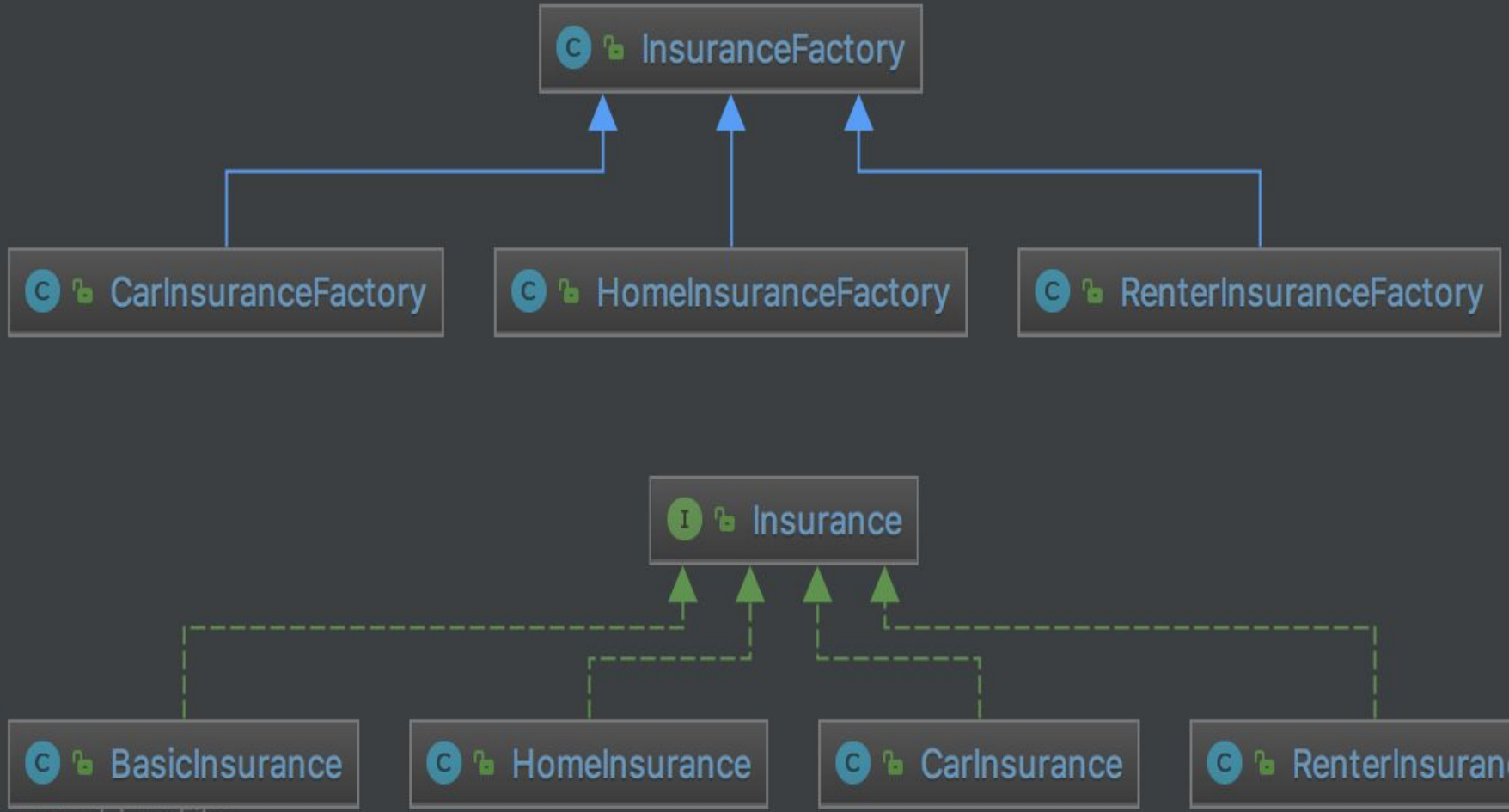


Code time

Factory

Definition:

- Create an object without exposing the creation logic to the client
  - Refer to newly created objects through an interface
- Defer instantiation to a subclass


InsuranceFactory
CarInsuranceFactory
HomeInsuranceFactory
RenterInsuranceFactory
Insurance
BasicInsurance
HomeInsurance
CarInsurance
RenterInsurance
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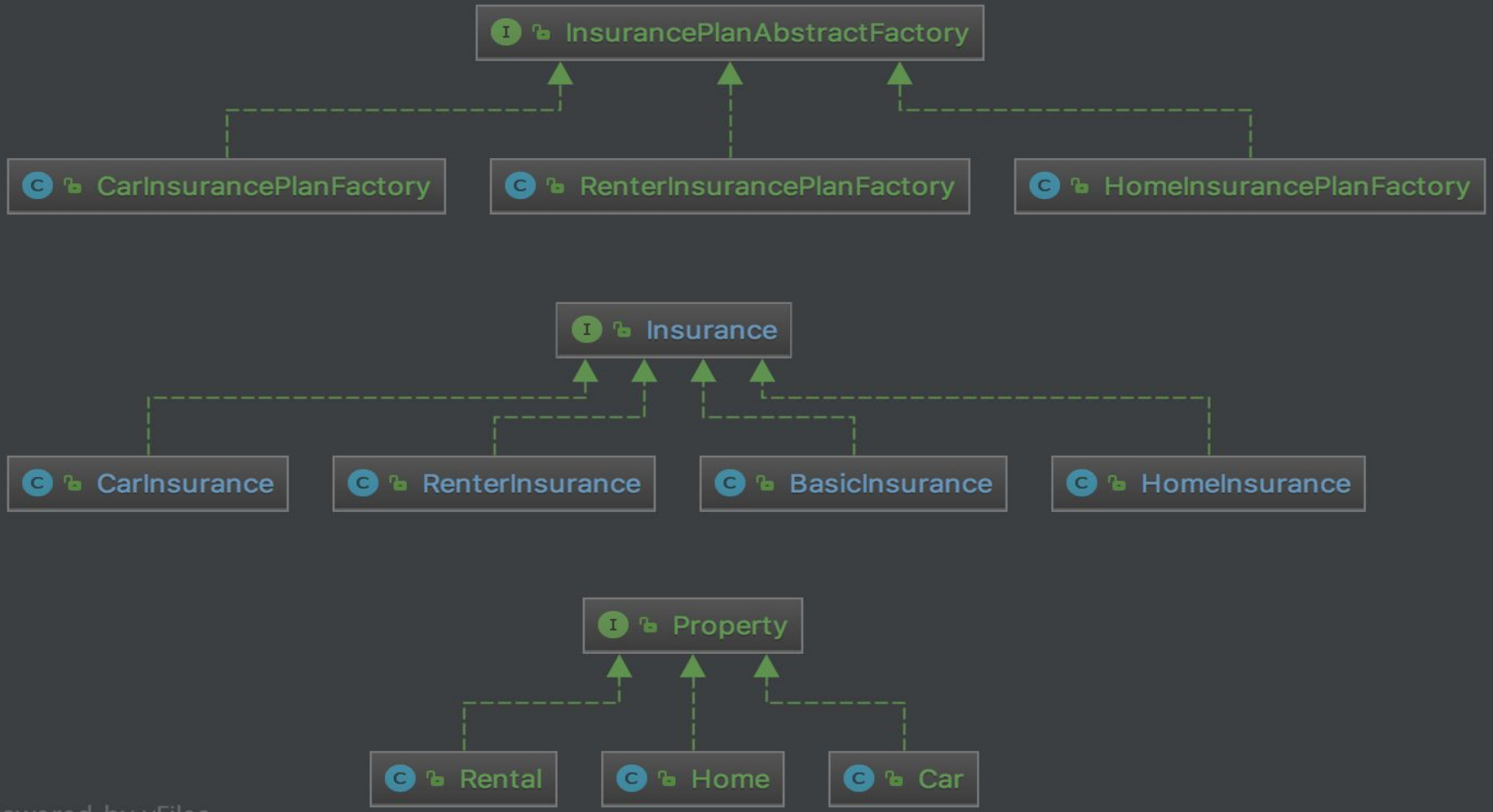
Abstract Factory

Definition:

- Provide an interface for creating families of related objects
- “Factory of factories”


InsurancePlanAbstractFactory
CarInsurancePlanFactory
RenterInsurancePlanFactory
HomeInsurancePlanFactory
Insurance
CarInsurance
RenterInsurance
BasicInsurance
HomeInsurance
Property
Rental
Home
Car
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Questions