

# Design Defects and Restructuring

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LECTURE 08

SAT, OCT 31, 2020

# Builder

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## Intent

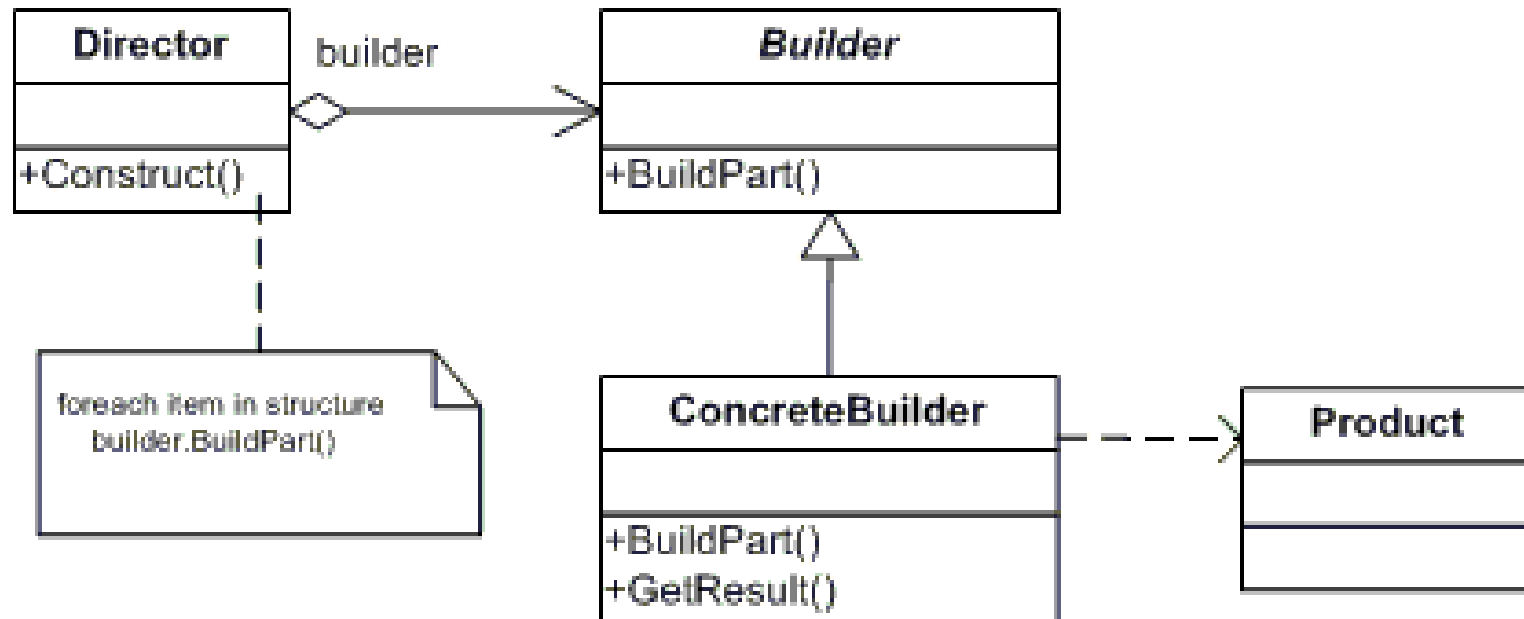
- Separate the construction of a complex object from its representation so that the same construction process can create different representations

## Applicability

- The algorithm for creating a complex object should be independent of the parts that make up the object and how they are assembled
- The construction process must allow different representations for the object that is constructed

# Builder

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# Factory Method

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## Intent

- Define an interface for creating an object, but let subclasses decide which class to instantiate
- Factory Method lets a class defer instantiation to subclasses

## Applicability

- A class can't anticipate the class of objects it must create
- A class wants its subclasses to specify the objects it creates
- Classes delegate responsibility to one of several helper subclasses, and you want to localize the knowledge of which helper subclass is the delegate

# Factory Method

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