

# Builder

Separates the construction of complex objects from their representation.

# Choose Your New Laptop



## **Budget**

Web Browsing  
Text Editing



## **Office**

Mobile Work



## **High-End**

Multimedia Work  
Gaming

# Choose Your New Laptop



**Budget**  
13-inch  
Intel Core i5  
Intel UHD Graphics 617



**Office**  
15-inch  
Intel Core i7  
Intel Iris Plus Graphics 645



**High-End**  
15-inch  
Intel Core i9  
Radeon Pro Vega 20

# Customize Your Laptop



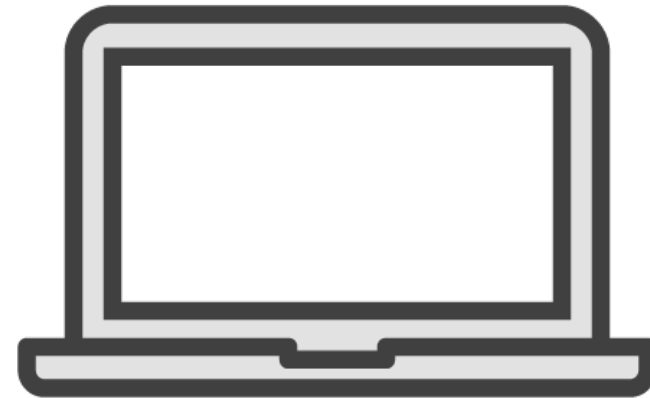
## **Budget**

13-inch

Intel Core i5

Intel UHD Graphics 617

# Customize Your Laptop



## **Budget**

13-inch

~~Intel Core i5~~

Intel UHD Graphics 617

# Customize Your Laptop



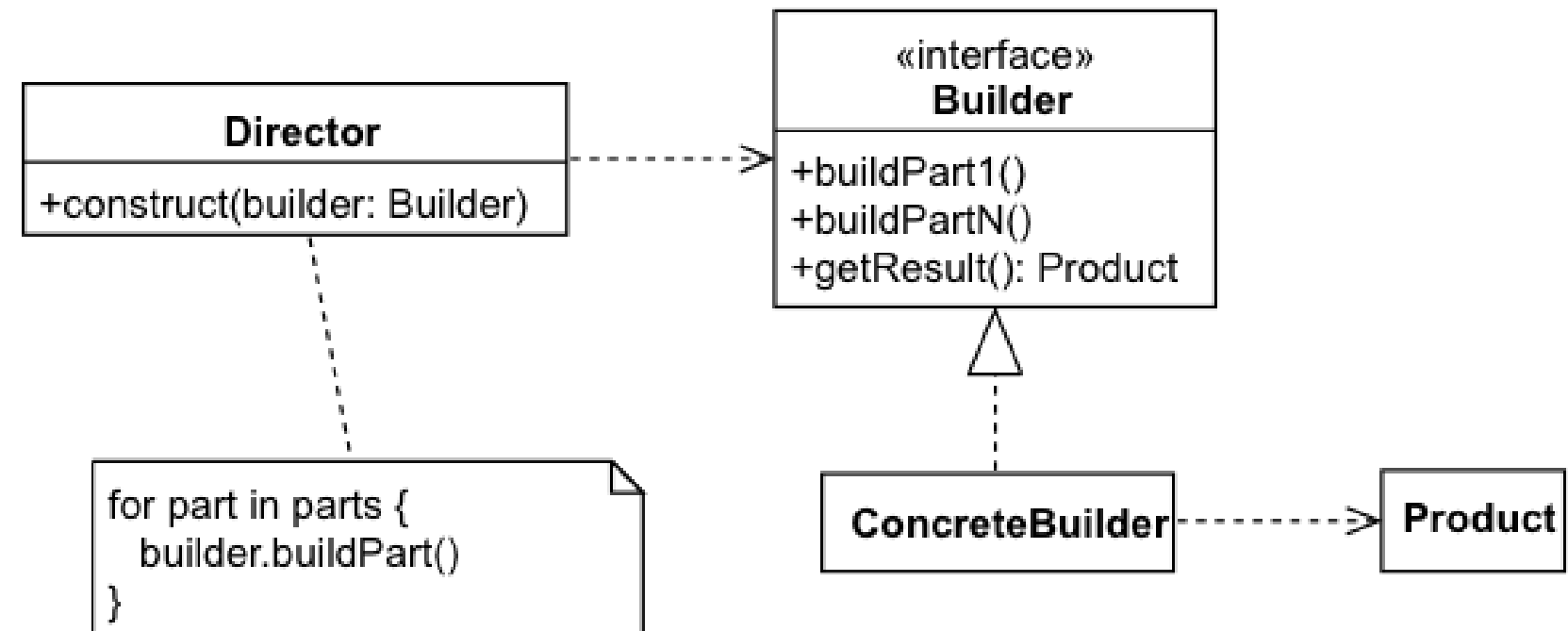
**Custom**

13-inch

Intel Core i9

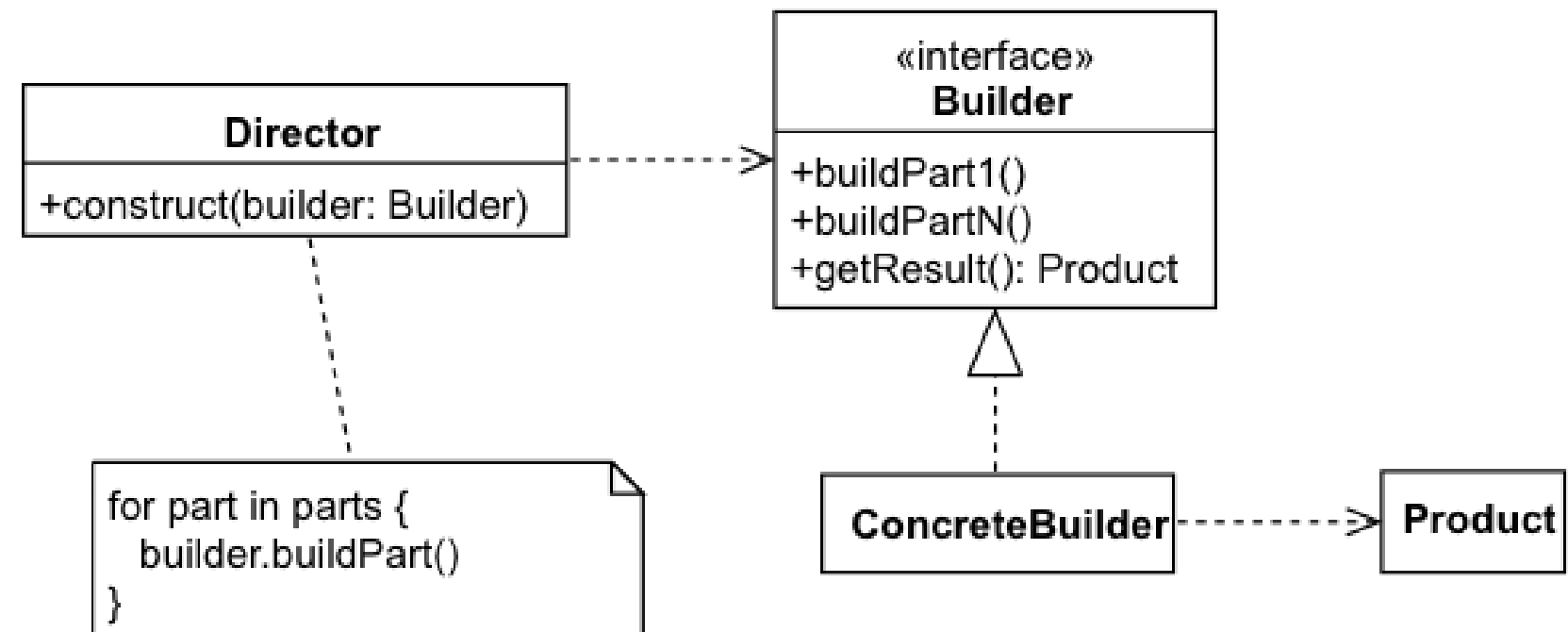
Intel UHD Graphics 617

## Define the Builder interface



Define the  
Builder interface

Implement  
concrete Builder types

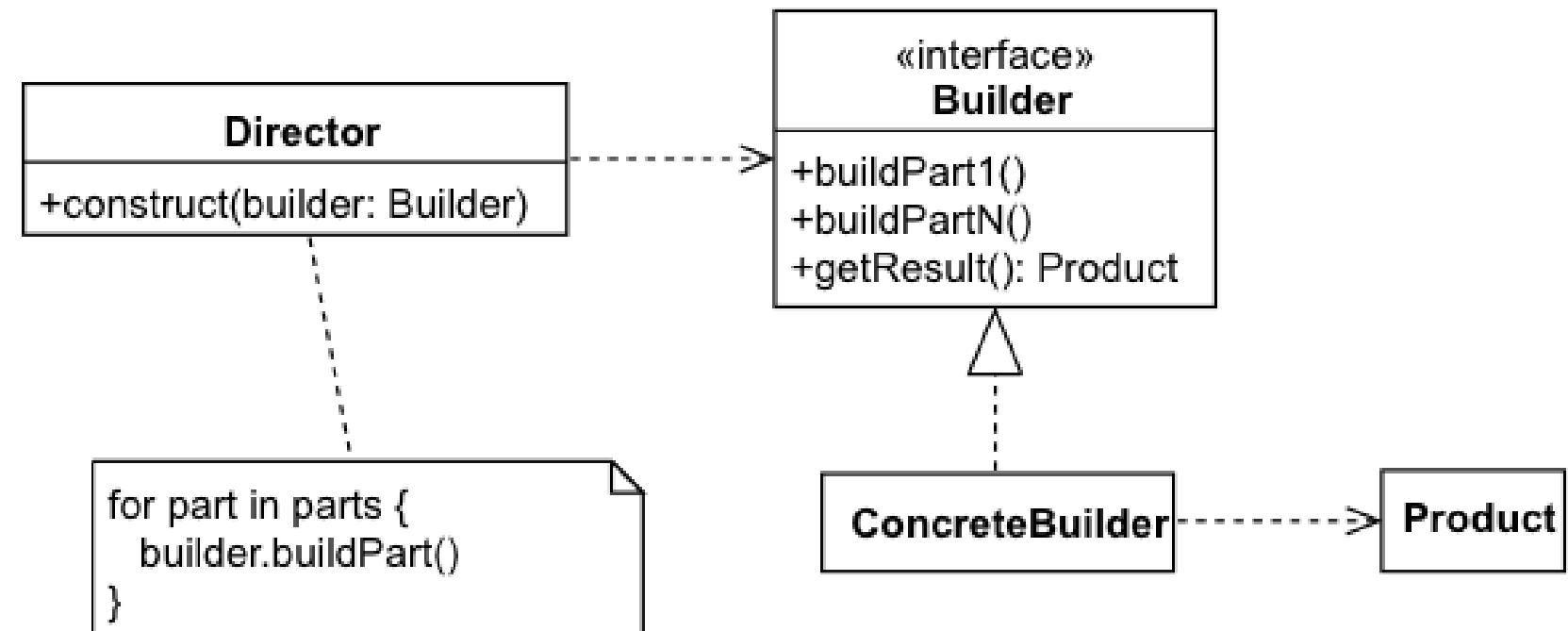




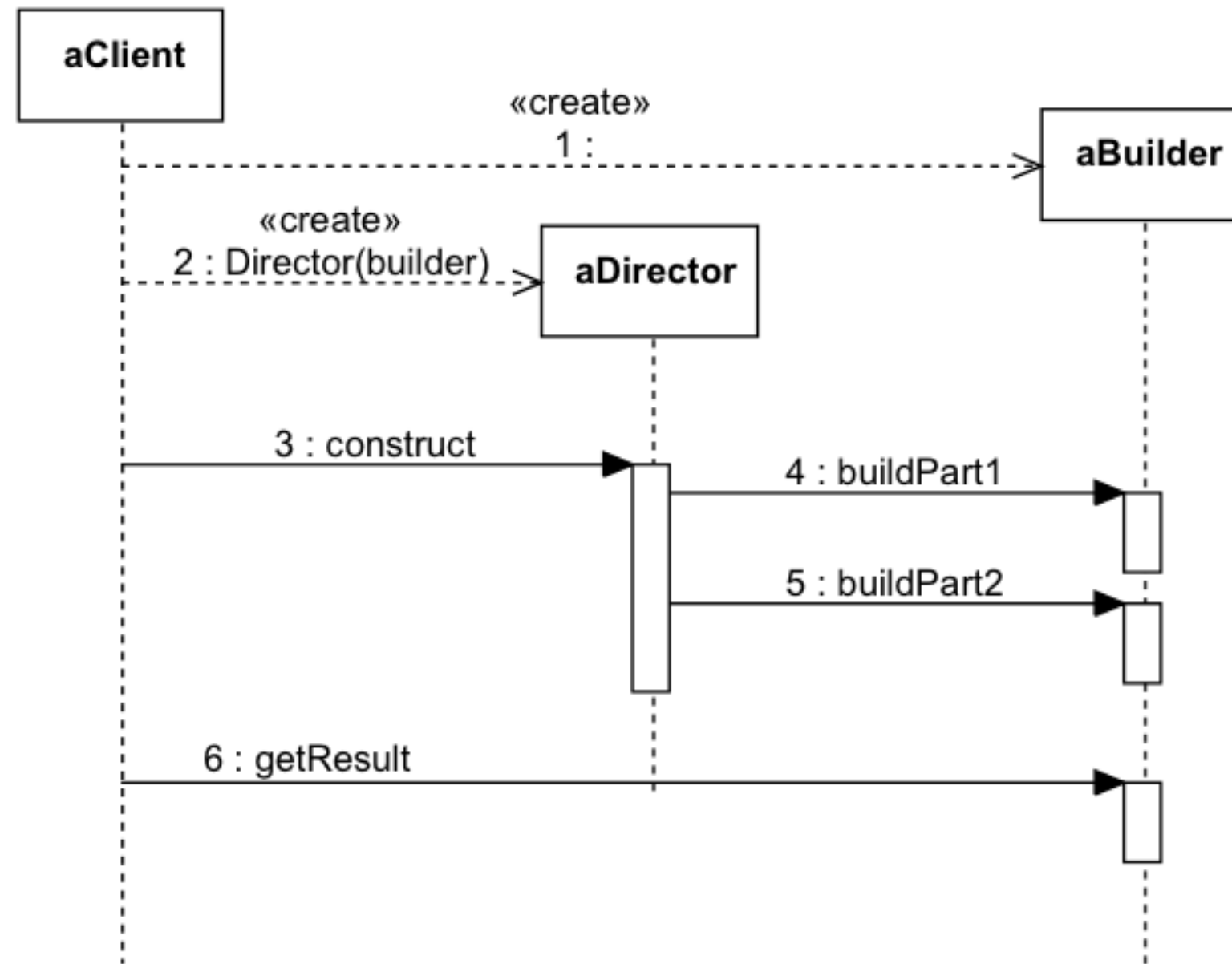
Define the  
Builder interface

Implement  
concrete Builder types

Director uses Builder  
to construct the parts



# Builder in Action



When to Avoid  
the Builder?

**No complex setup required**

When to Avoid  
the Builder?

**No complex setup required**

**Configuration values are different  
for each instance**