Optional



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NullPointerException

Occurs when you dereference a null value, for example when you call an instance method or access a field via a variable that has the value null.



"I call it my billion-dollar mistake. It was the invention of the null reference in 1965."

Sir Tony Hoare – 2009



An Optional is a container that can either contain a value or be empty

public Customer getCustomer(long id)

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public Optional<Customer> getCustomer(long id)

Optional is an immutable value class

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Optional was primarily designed to be used as a return type for methods

Summary



Class java.util.Optional

- Immutable value class
- Return type for methods

Methods for working with Optional

- Basic methods
- Functional style methods



Up Next: Try-with-resources and AutoCloseable