

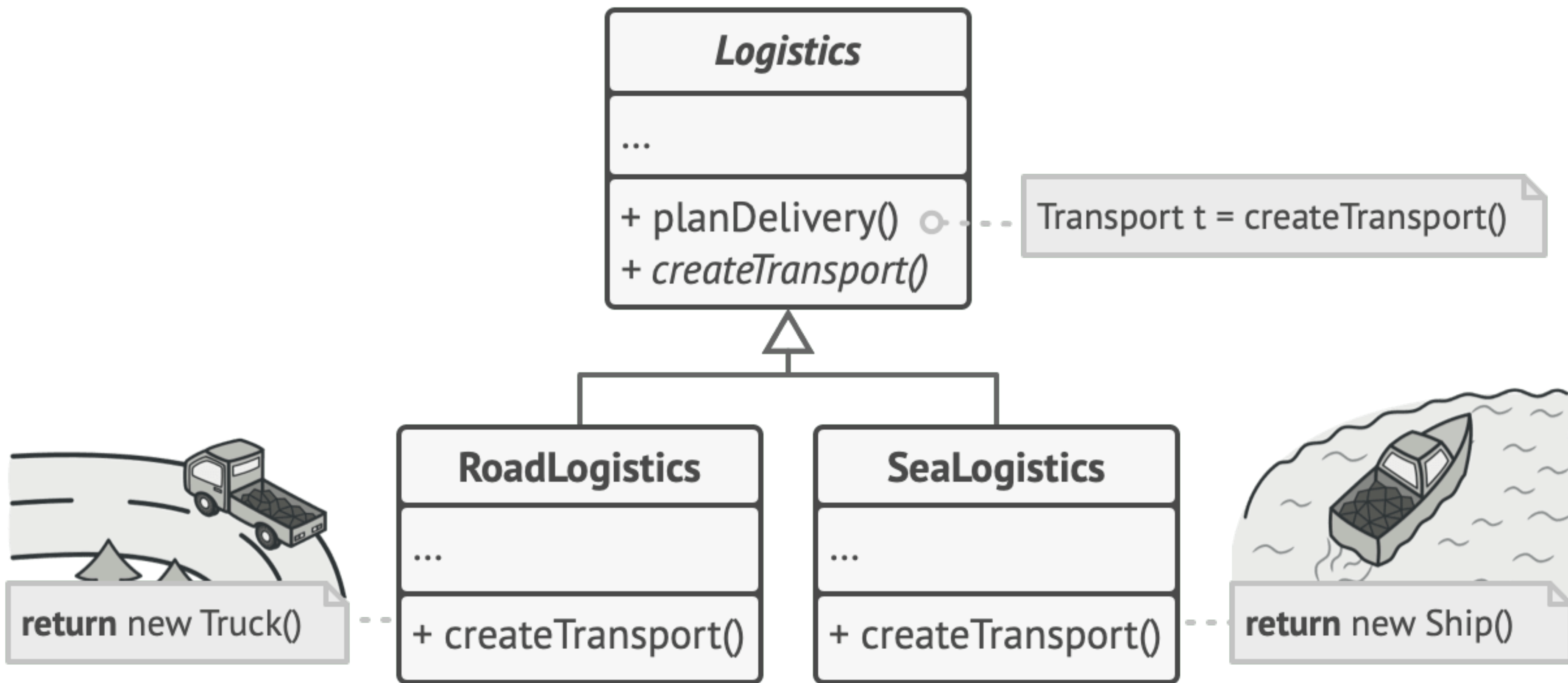


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Source: <https://refactoring.guru/design-patterns/factory-method>



Solution

**Factory Method pattern replaces direct object construction
with factory method calls.**























































































































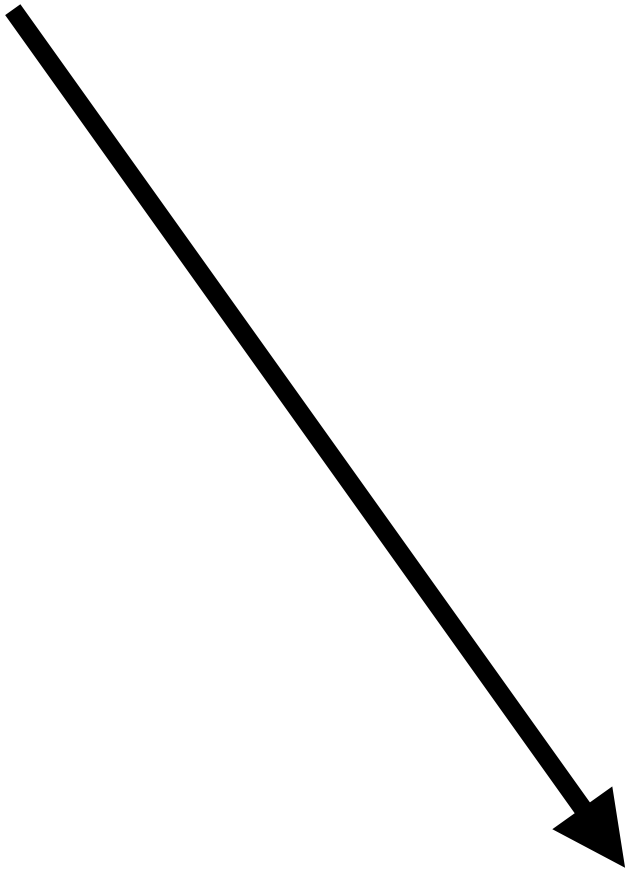


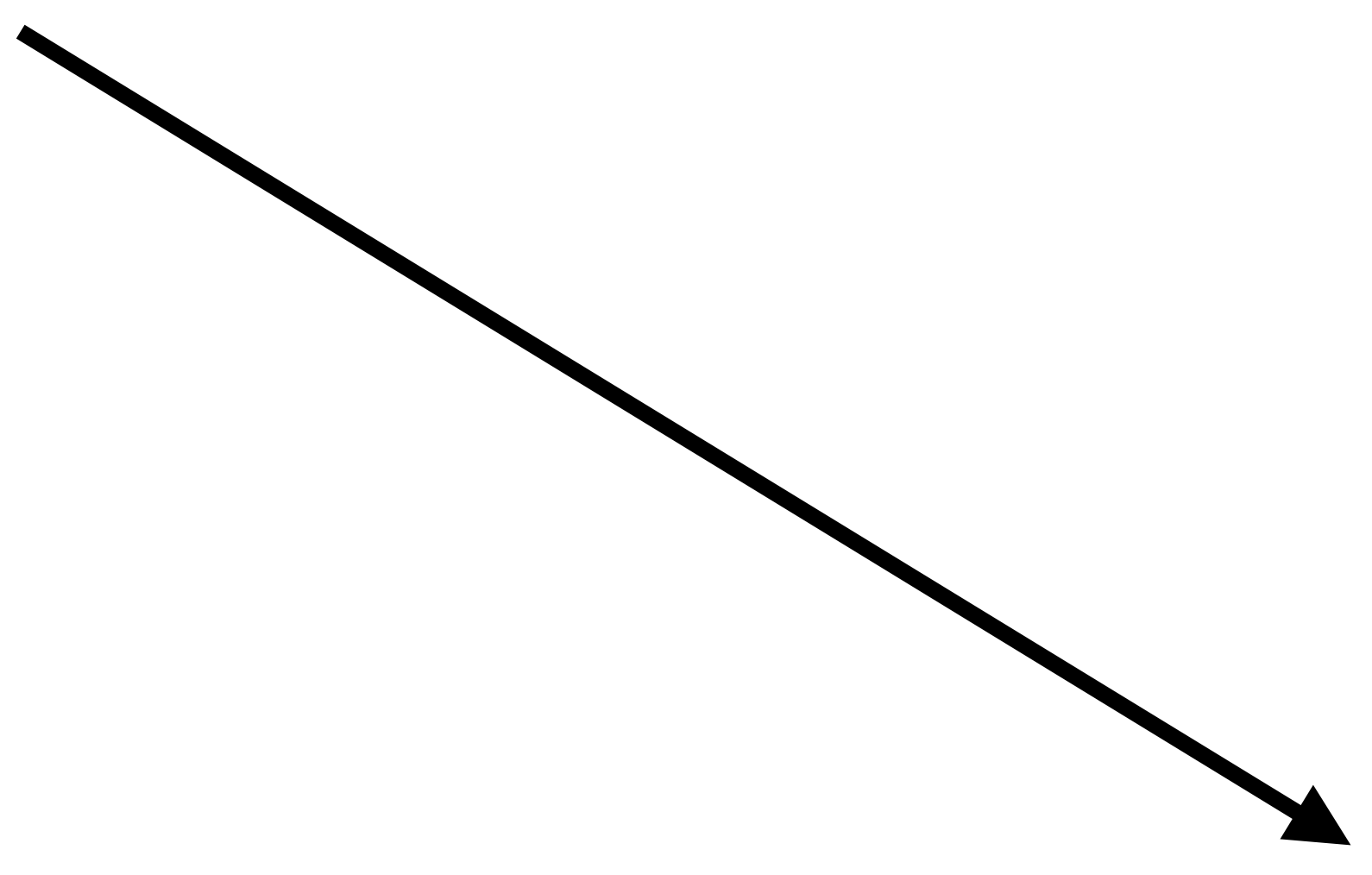




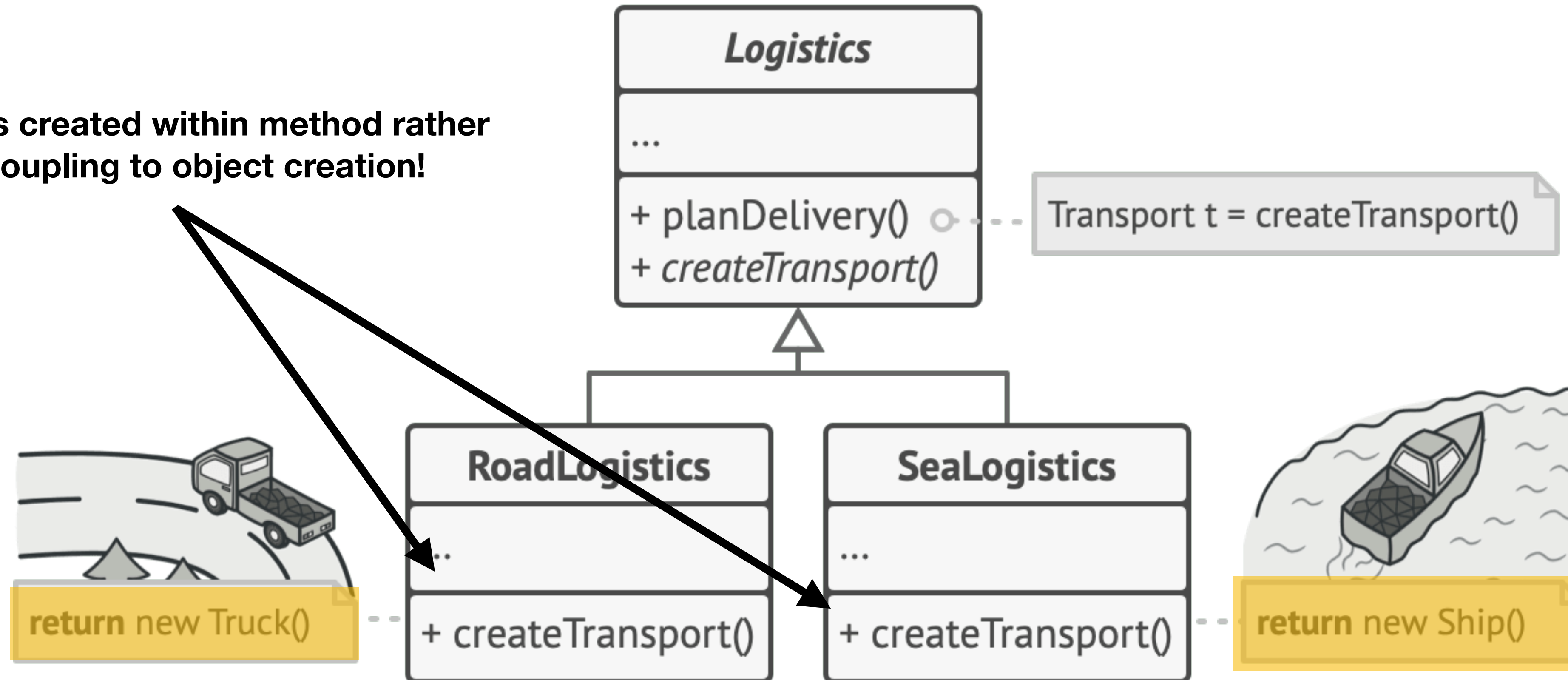








Transports created within method rather than coupling to object creation!



Solution

Factory Method pattern replaces direct object construction with factory method calls.

Why?

- Moving the constructor call allows subclasses to override the factory method and return different product types.
- Subclass Constraint: Subclasses can only return different types of products if they share a common base class or interface.
- Factory Method Return Type: The factory method in the base class should declare its return type as the shared interface.