

# **Classification patterns in tournaments**

Juan L. Muñiz Ramos

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## **Desing patterns**

They are a general and applicable solution to different software design problems. These are templates that identify problems in the system and provide solutions to general problems. These patterns provide a structured, reusable approach to problem-solving. It helps to share efficient and effective solutions. It cannot be expressed in programming language. It is source code oriented.

Type of design pattern to be used:

- Creational patterns

### **Creational patterns**

They provide various object creation mechanisms, where they increase the flexibility and reusability of the code. We are going to use Factory method.

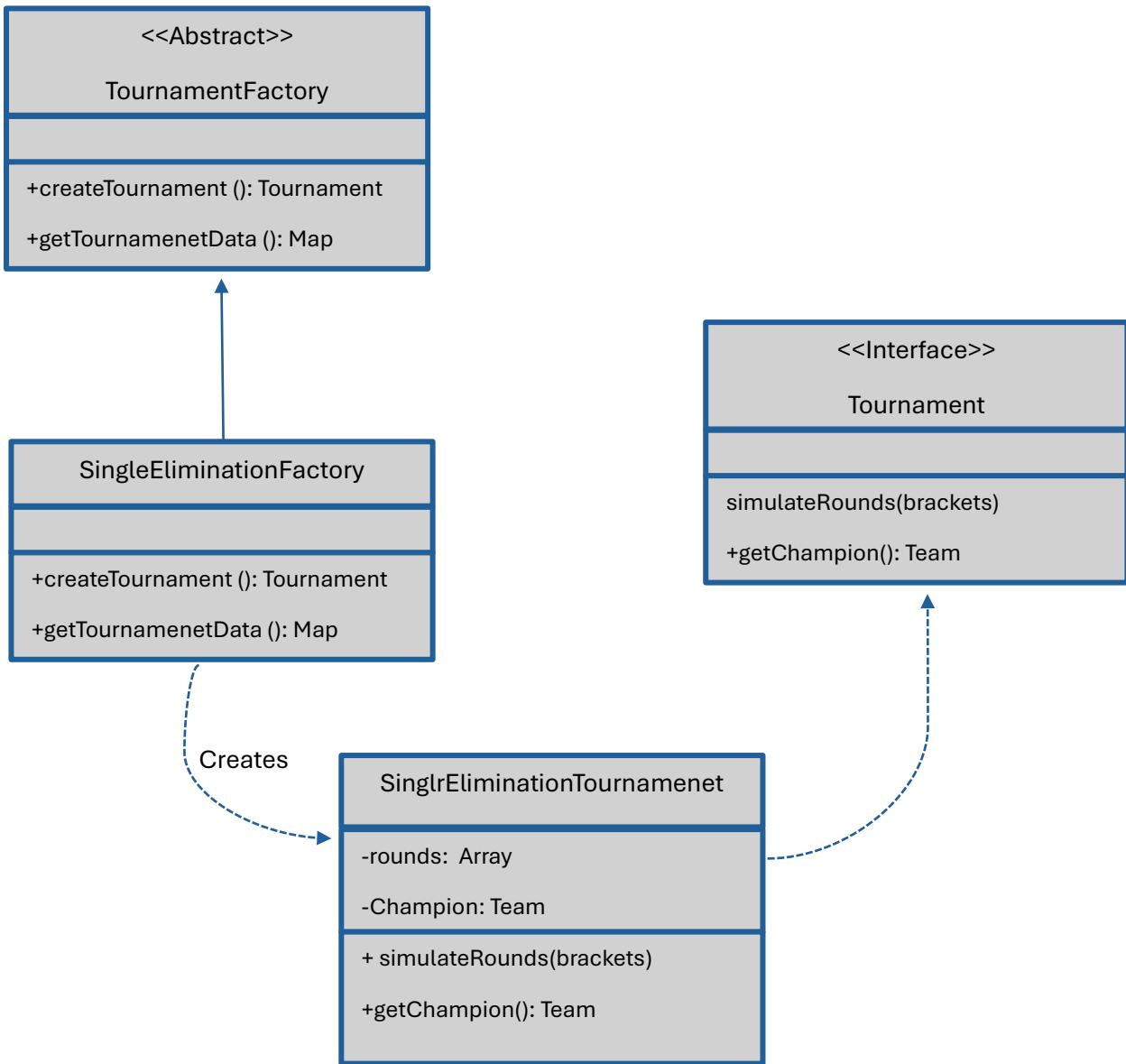
#### **Types of Creational patterns**

- Abstract Factory
- Builder Patterns
- Factory Method
- Prototype

#### **Factory Method**

An interface for creating objects in a super class, allowing subclasses to alter the type of objects to be created.

## Factory method Diagram for tournaments



## Referencia:

- [Qué son los Patrones de Diseño de software / Design Patterns](#)
- [software-design \(1\).pdf](#)