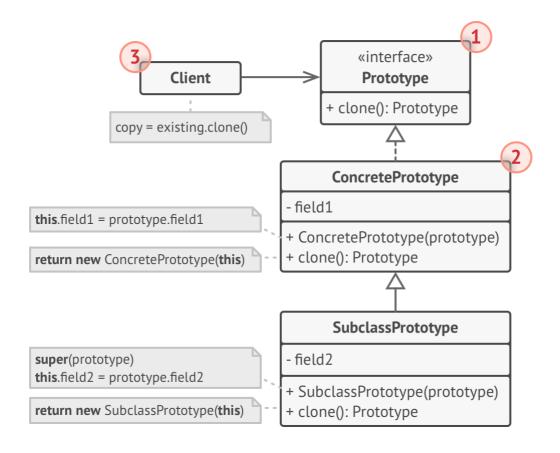
6/12/23, 12:36 AM Prototype

original cell acts as a prototype and takes an active role in creating the

cells is formed. The original cell acts as a prototype and takes an active role in creating the copy.

## 品 Structure

## **Basic implementation**

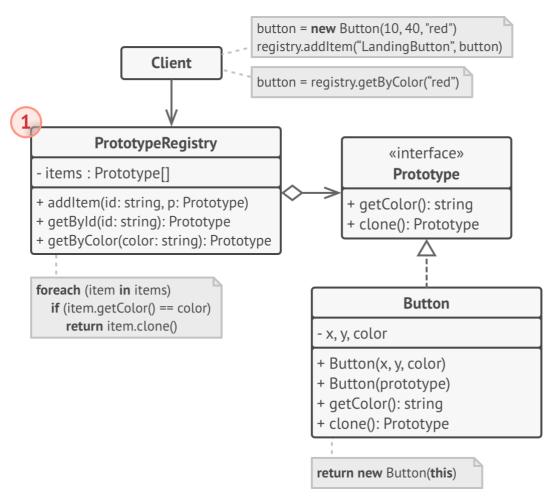


- 1. The **Prototype** interface declares the cloning methods. In most cases, it's a single clone method.
- 2. The **Concrete Prototype** class implements the cloning method. In addition to copying the original object's data to the clone, this method may also handle some edge cases of the cloning process related to cloning linked objects, untangling recursive dependencies, etc.
- 3. The **Client** can produce a copy of any object that follows the prototype interface.

## Prototype registry implementation

6/12/23, 12:36 AM Protot





1. The **Prototype Registry** provides an easy way to access frequently-used prototypes. It stores a set of pre-built objects that are ready to be copied. The simplest prototype registry is a <a href="mailto:name">name</a> → prototype hash map. However, if you need better search criteria than a simple name, you can build a much more robust version of the registry.

## # Pseudocode

In this example, the **Prototype** pattern lets you produce exact copies of geometric objects, without coupling the code to their classes.