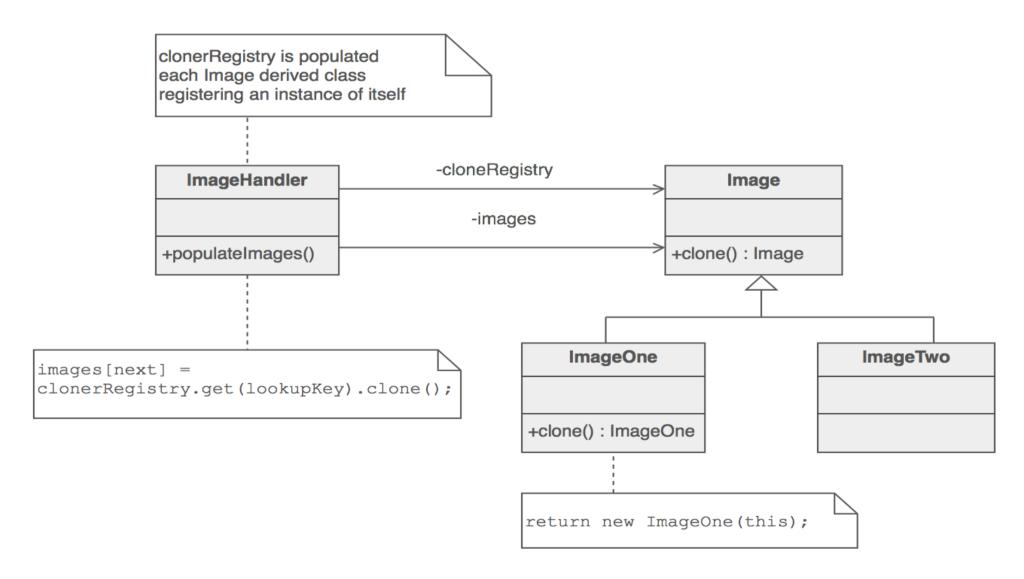
Prototype Design Pattern



Krishna Kumar

When to use Prototype?

- When creating your programs, you'll probably led to instantiate objects of significant size in memory.
- Create a large object poses little problems. But create several following may lead to kill the performance of your application.
- The solution is to copy the base object, the prototype, and then change what needs to be for the new object meets the needs.

Prototype

```
class Prototype
public:
     virtual ~Prototype();
     virtual Prototype* Clone() const = 0;
};
// Implementation
ClassProduct* ClassProduct::Clone() const {
  // copy constructor
  return (new ClassProduct(*this));
```

Example

- Develop a code to create multiple SQL DB
 - Login
 - Passwd
 - db name

Example 2

- Develop a code to create new documents
 - XML Document
 - Word File
 - Spreadsheet
- Using (Prototype + Factory)
- Using templates for generalisation

Home Assignment

- Create 2 course module
 - Online course
 - C++
 - Java
 - Net
 - Offline course
 - Event Management
 - Professional Ethics
 - Communication Skills