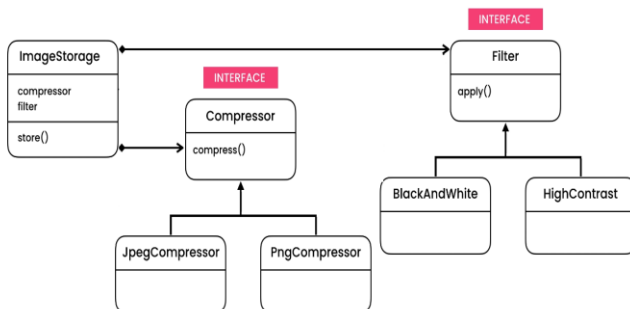


Strategy Design Pattern

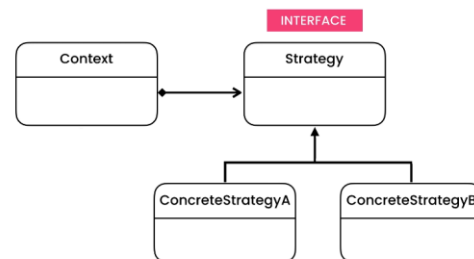
This pattern is used when there are different types of algorithms for implementing a behavior.

Class Diagrams

Our Example



The pattern in Gang of Four's book



Explanation

In our imaginary application, we need to compress and filter images before saving them. There are two different types of algorithms for both compression and filtering. **ImageStorage** class is responsible for saving the image. its inputs are special types of compressor and filter classes. **Compressor** and **Filter** are interfaces. **JpegCompressor** and **PngCompressor** classes implement the **Compressor** interface (each of them overwrites `compress()` method in its own way). **BlackAndWhite** and **HighContrast** classes implement the **Filter** interface (each of them overwrites `apply()` method in its own way). With this structure, we satisfy the "open-closed" principle, different types of algorithms will be added in the future and remove the ugly if-else statements.