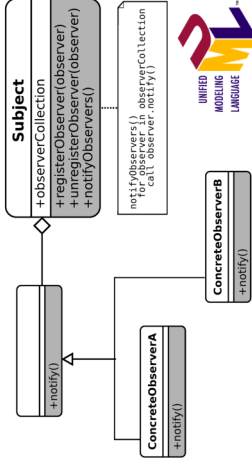




# Observer Pattern



**Erfinder** Erich Gamma, Richard Helm ... ~1994

The observer pattern (also called listener pattern) is a design pattern in software development. It belongs to the category of behavior patterns. In the programming language Java it would be **public interface Observer** and it would be used with "implements **Observer**" (needs exercise)

## Anwendungsfälle

To transfer changes to objects to a complete structures that dependent on this object, ev. an application with different views



# DESIGN PATTERN(S)



**Erfinder** Architekt Christopher Alexander ~1977

Design patterns are proven solution templates for recurring design problems in architecture as well as in software development.

A design pattern usually contains several classes (templates), so a single design pattern is a collection of different templates. E.g. The shape of a single step of stairs **AND** the railing (steelwork or eg woodwork) for the complete stairs **AND** for example the shape for the carpet of each step

## Anwendungsfälle

Architecture, Software development, psychology (Archetypes), Sociology (Archetype-Combinations)