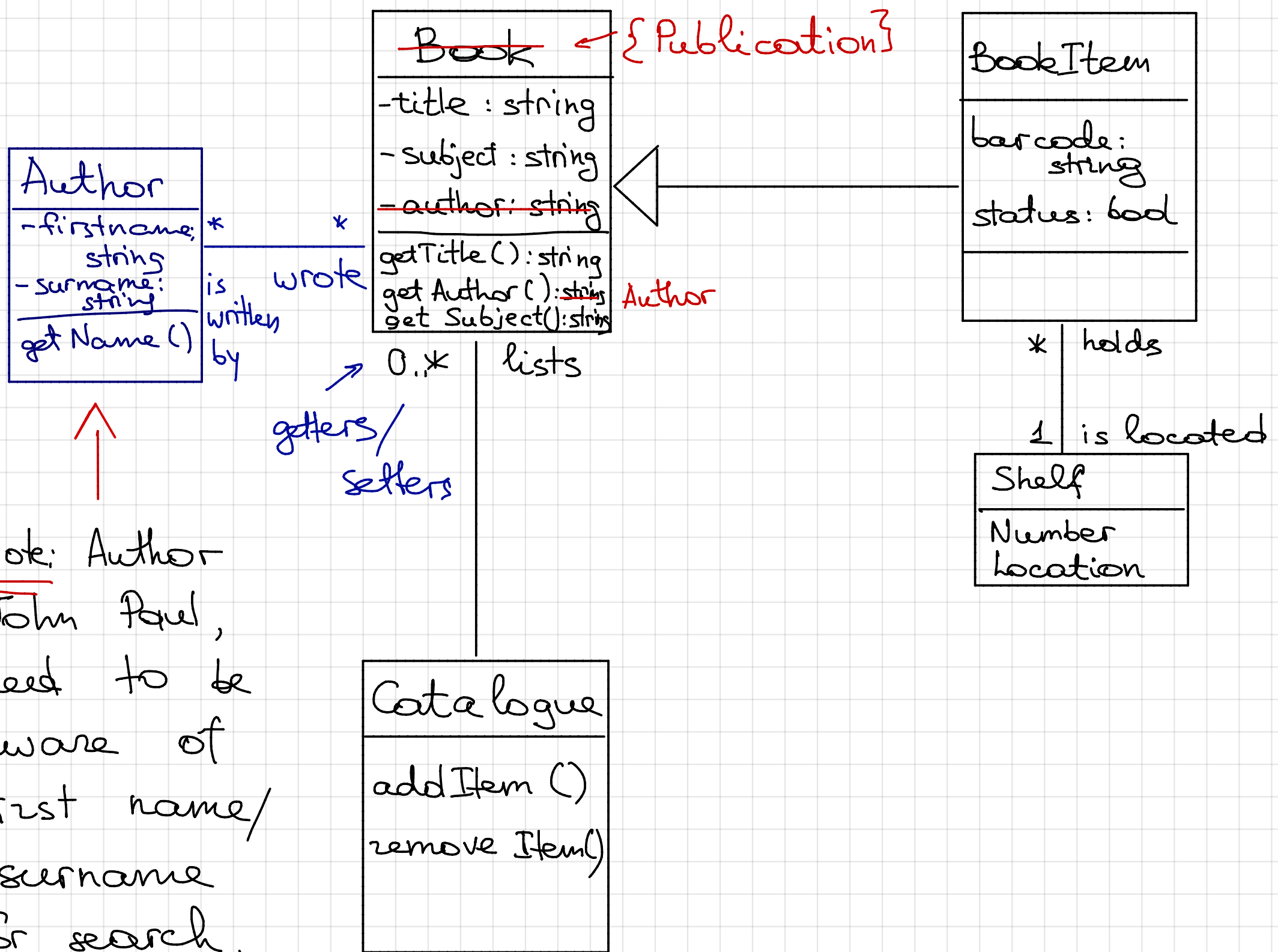


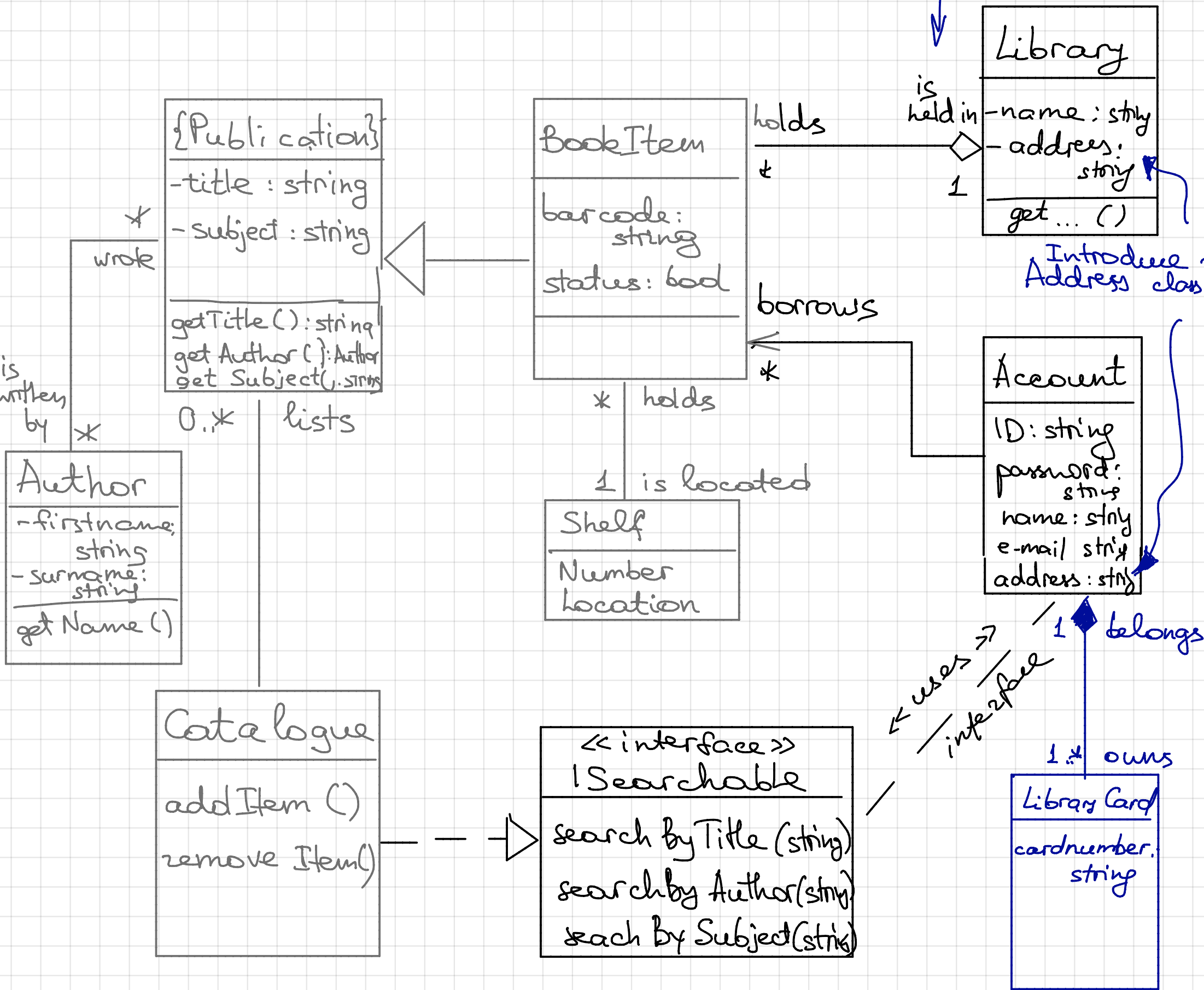
Initial Design : Library Management System

- Requirements:
1. Any library member should be able to search books by their title, author, subject
 2. Each book has a unique ID and bookshelf number to help to locate it.

Note: there could be more than 1 copy of a book → Book Items



(subtle difference)
Aggregation example



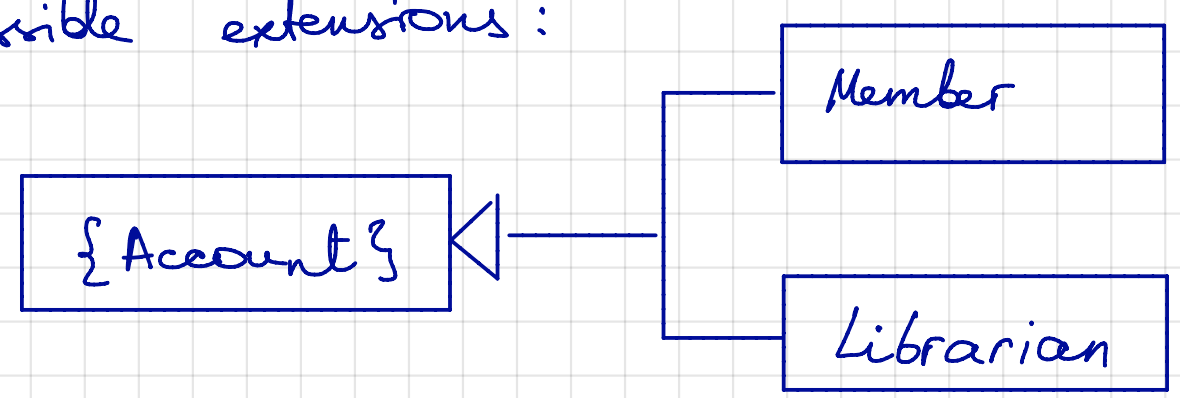
Introduce?
Address class.

main
functionality
as interface

Extension to
illustrate
Composition
if need to show
(subtle
differences)

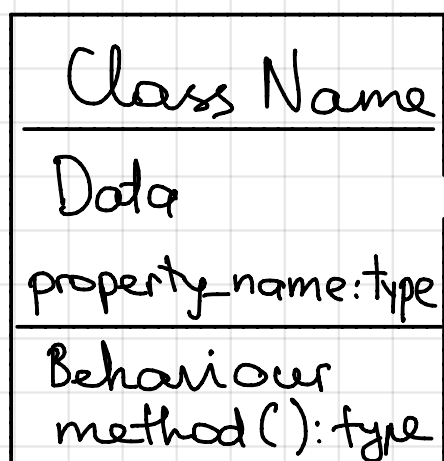
- see
lecture
notes

Further possible extensions:



Quick UML Summary

Class



Abstract

{ Class Name }

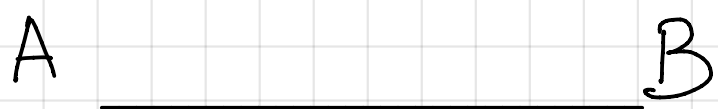
or

Italics

Interface

<< interface >>

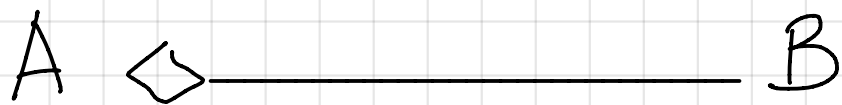
| Adjective



Association (A and B call each other)

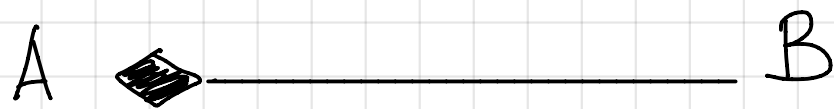


Uni-directional association



(A can call B but not vice versa)

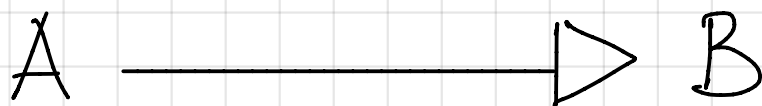
Aggregation



Composition



Interface: A implements B



Inheritance: A inherits from B