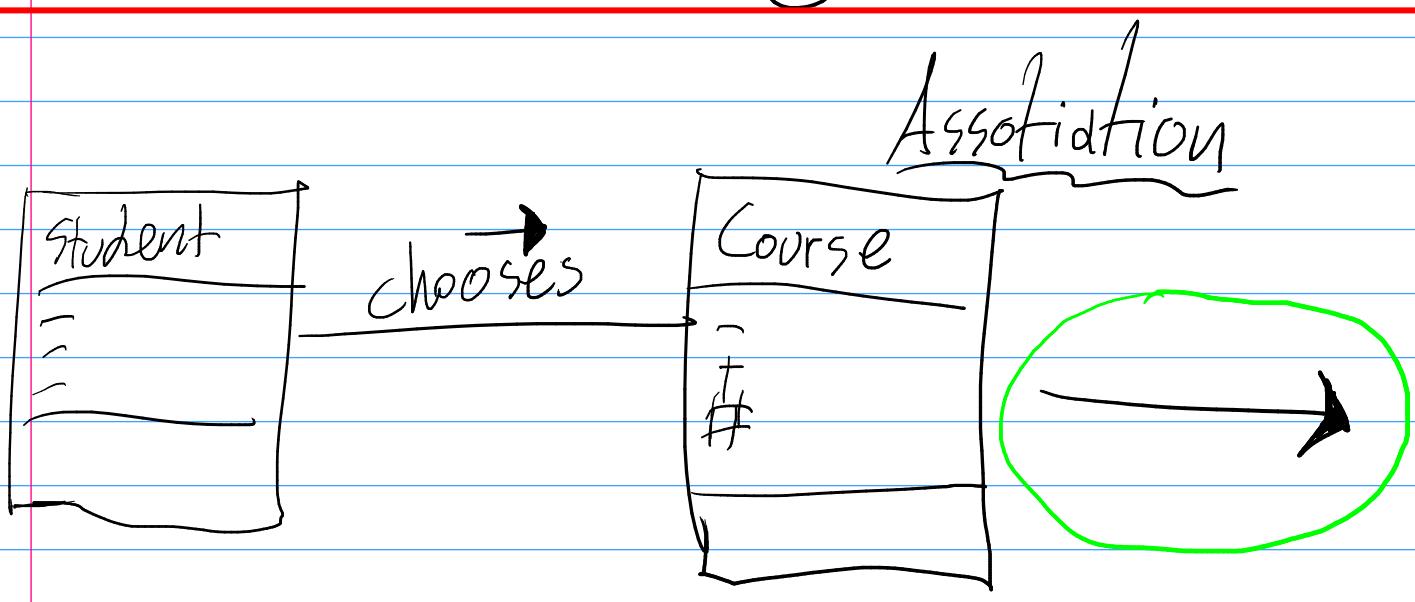


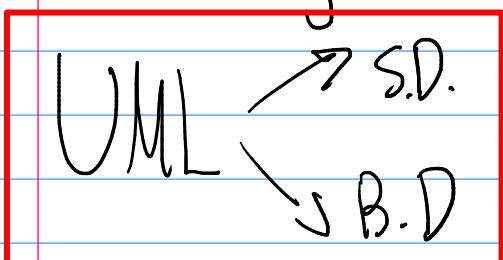
# UML Diagrams



Structural / Behavioural Diagrams (Class D. / Communication Diagram.)

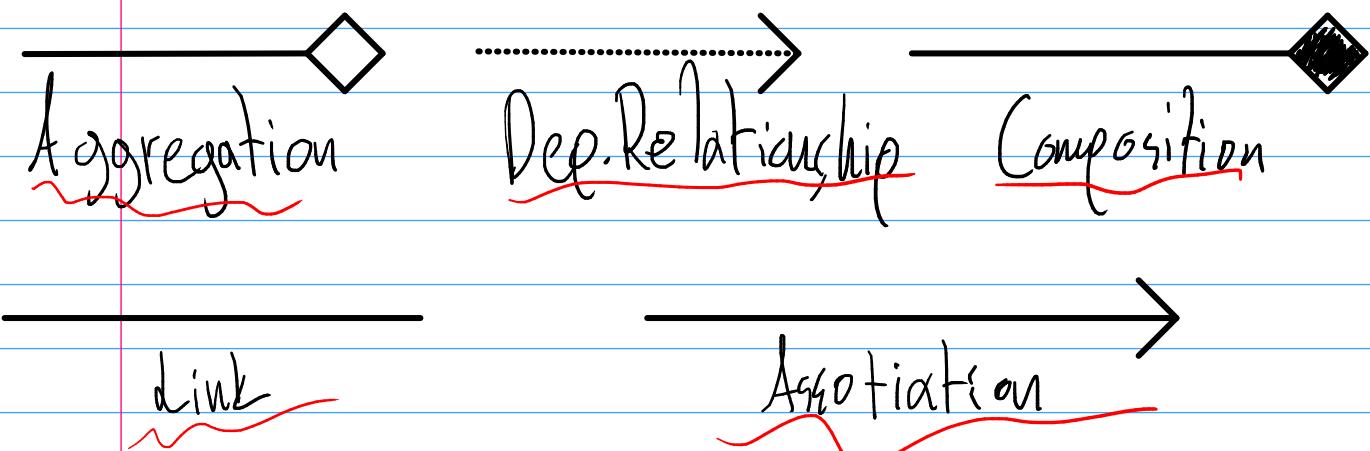
S.D. show a system's static parts and their relationships, classes & components.

While B.D. illustrate the dynamic flow, actions and interactions (the "How"). Such as workflows and message sequences.



# Object Diagram Notations

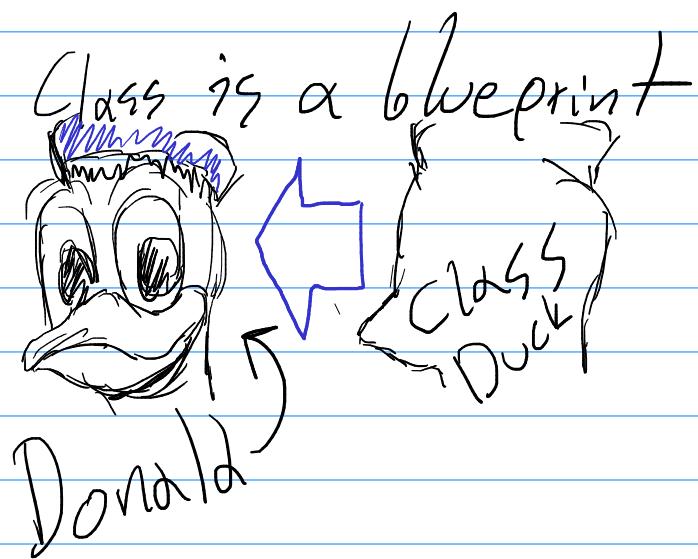
Enums use dependency or association.



Google each one!

Multiplicities:

0...1
1...*    0...*

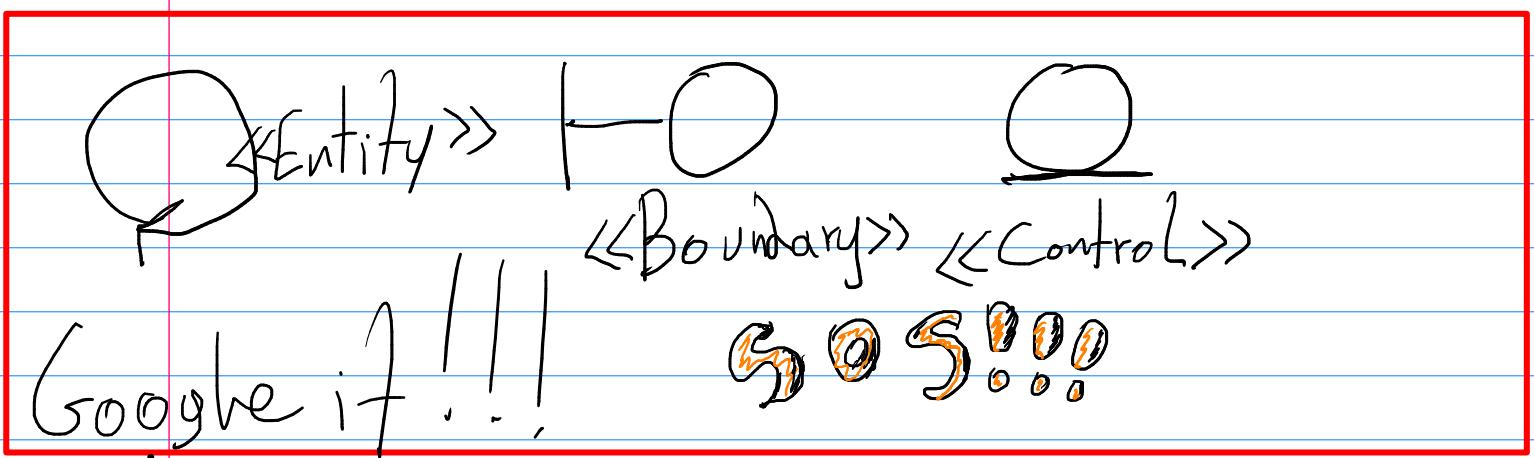
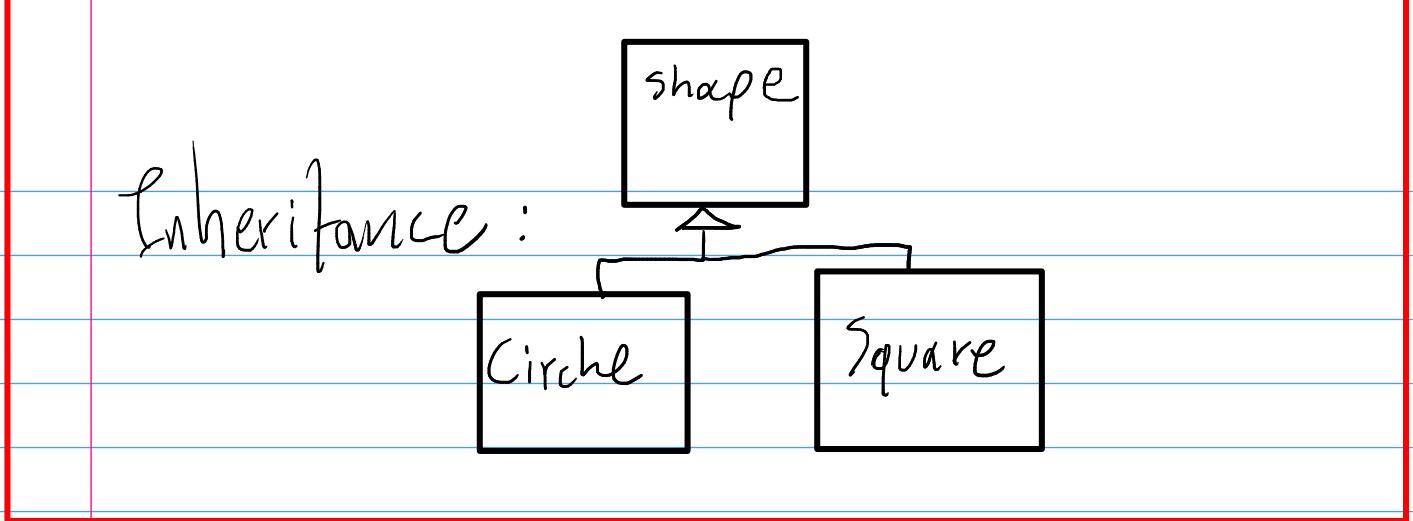


A class represents a concept which encapsulates state(attributes) & behavior (operations).

- private  
+ public  
# protected  
(...)

Duck
-name: Donald : String
-job: jobless : String
+quack() : void

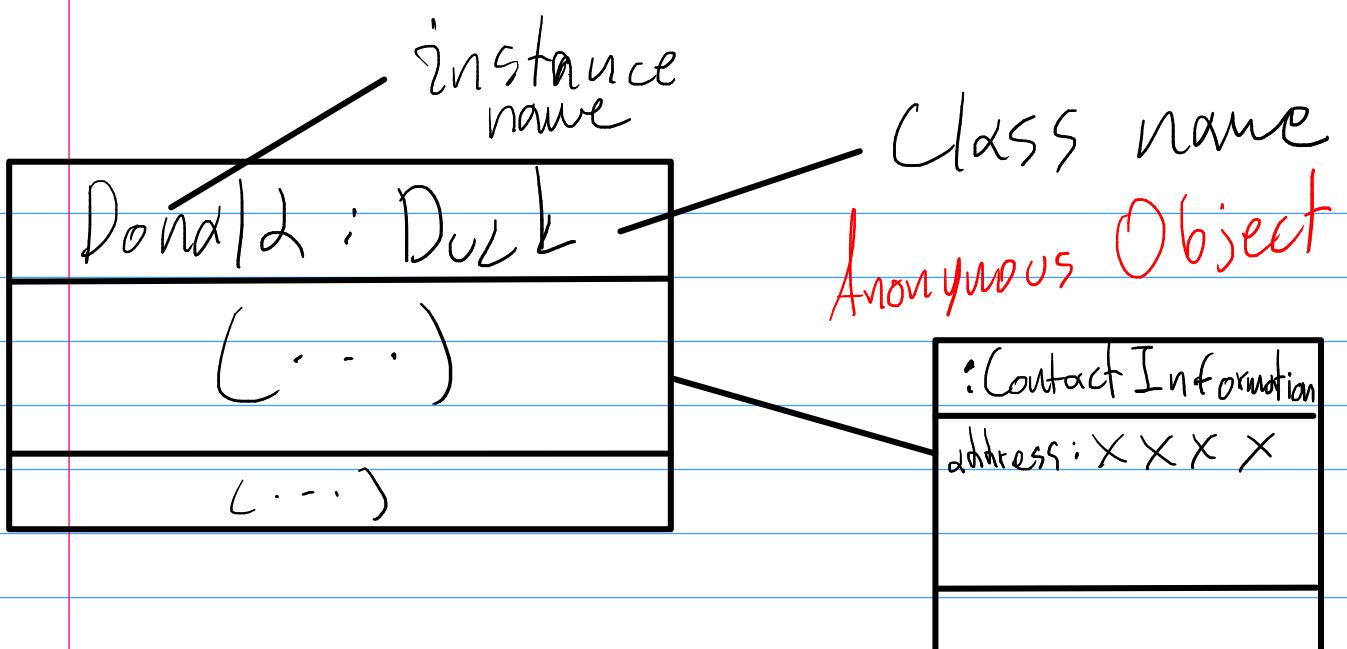
→ signature



Object is an instance of a class,  
 likewise an Object Diagram. Is an instance of  
 a Class Diagram.

Shows a snapshot of a detailed  
 state of a system. (At a point in time).

Object D. is closely related to  
 Communication Diagrams.



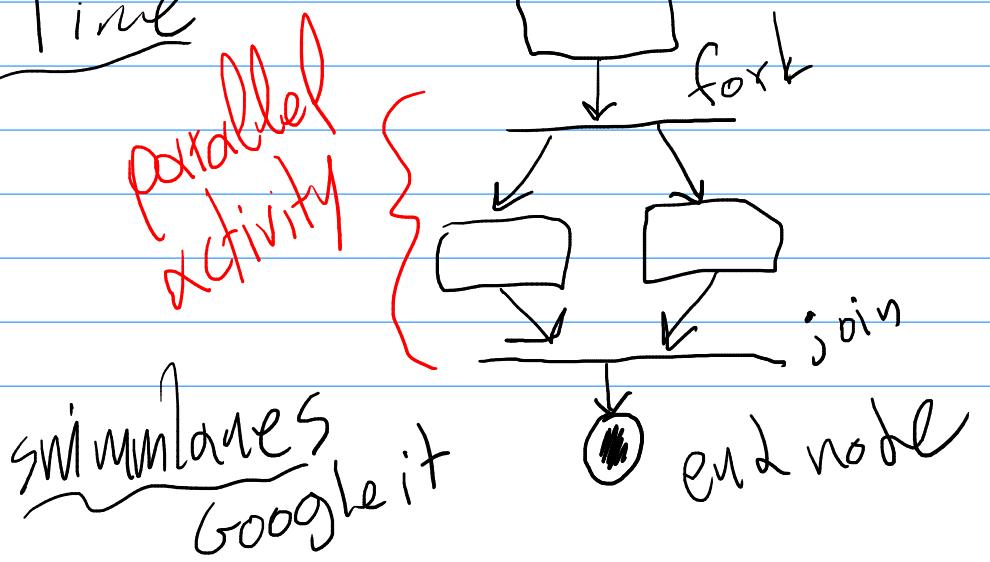
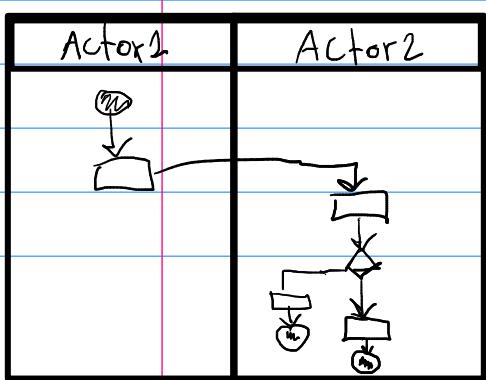
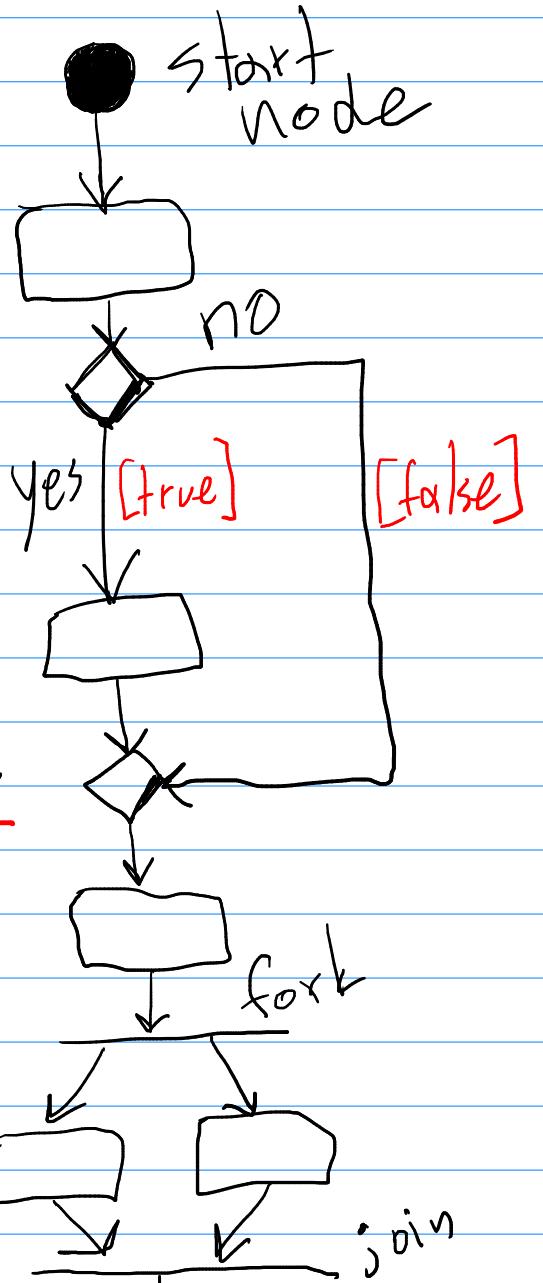
# Activity Diagram

Good to show steps of a system

## Behavioral

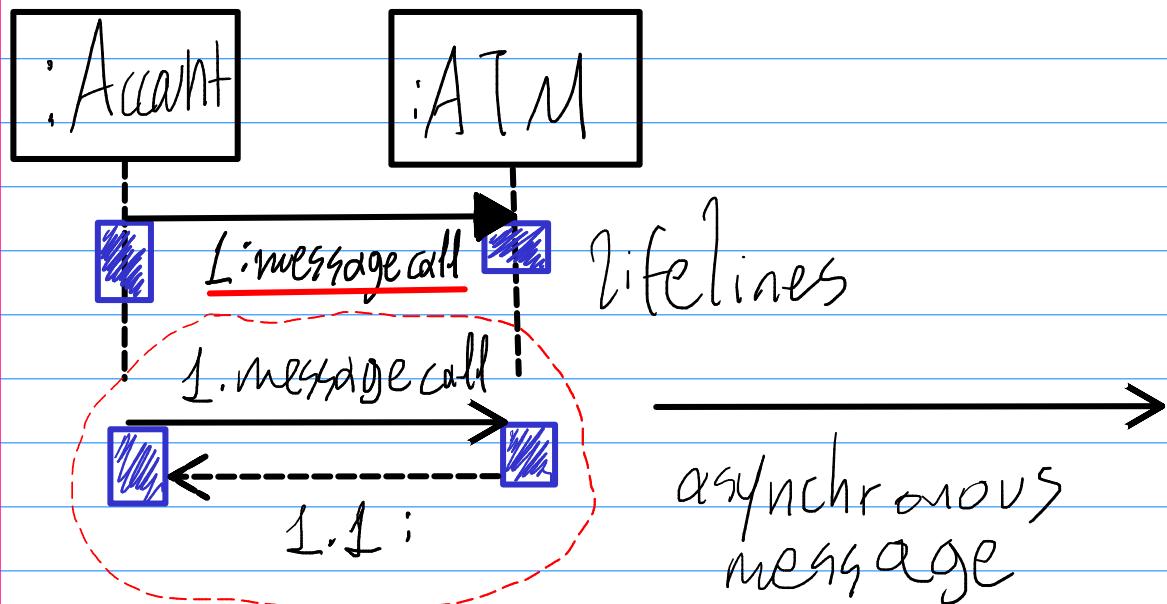
dynamic, shows change in time

Processes in Time



`:ObjectNode`

## Sequence Diagram (collaboration is close) (to this one)



View the Visual Paradigm examples (Google)

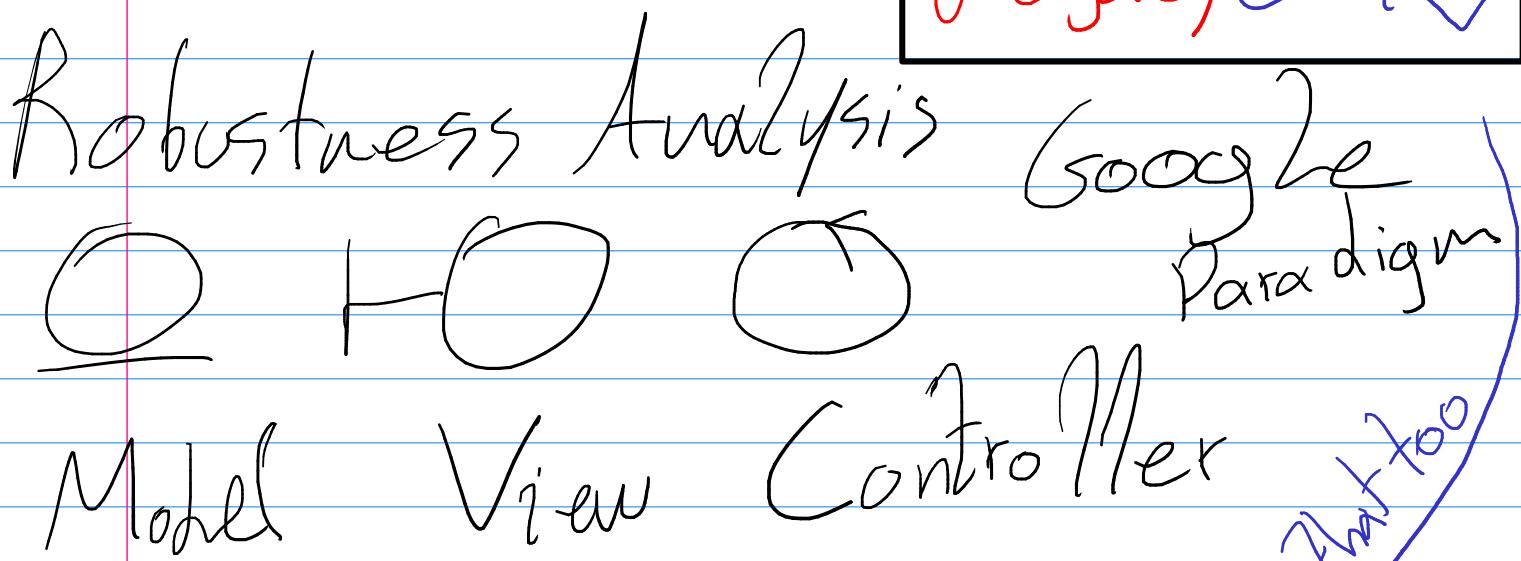
## Collaboration Diagrams

Same as Sequence just displays the info differently.

An object is represented by  
Object name: class name

Yt He Source

Legacy Crap ↴



Collaboration essentially  
Communication the same.

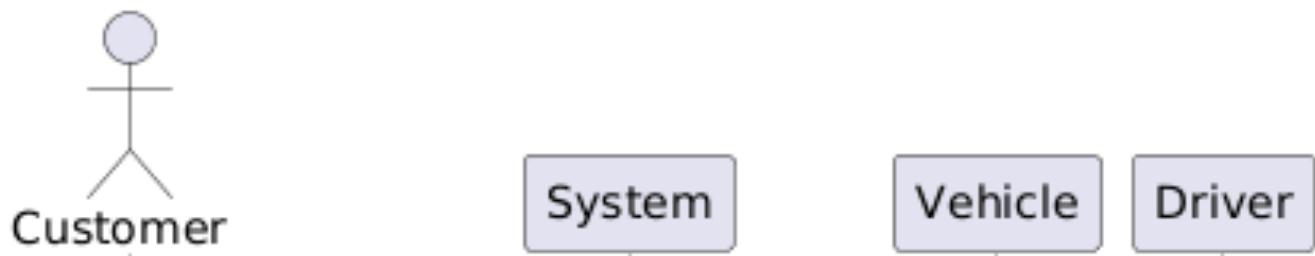
link VS association What are they?

# Link vs Association

An association describes what classes can do abstractly while links concretely says what the objects do/links at runtime

## Development Methodologies

V model  
evolving CO<sup>DE</sup> type  
Waterfall  
iterative (..)  
something  
Google



Request assignment →

isAvailable? →

alt [No]

No vehicle available ←

[Yes]

isAvailable? →

alt [No]

No driver available ←

[Yes]

assignDriver() →

assignVehicle() →

Customer

System

Vehicle

Driver

## Customer

## System

Submit assignment request  
(client + route)

Search for available special vehicle

Vehicle available?

Search for available special driver

Driver available?

Assign driver to vehicle

Display message  
"No available driver"

Record assignment

Notify driver

Notify vehicle

Display message  
"No available vehicle"

