

WP12

# System Analysis

**Design of Software Architectures**

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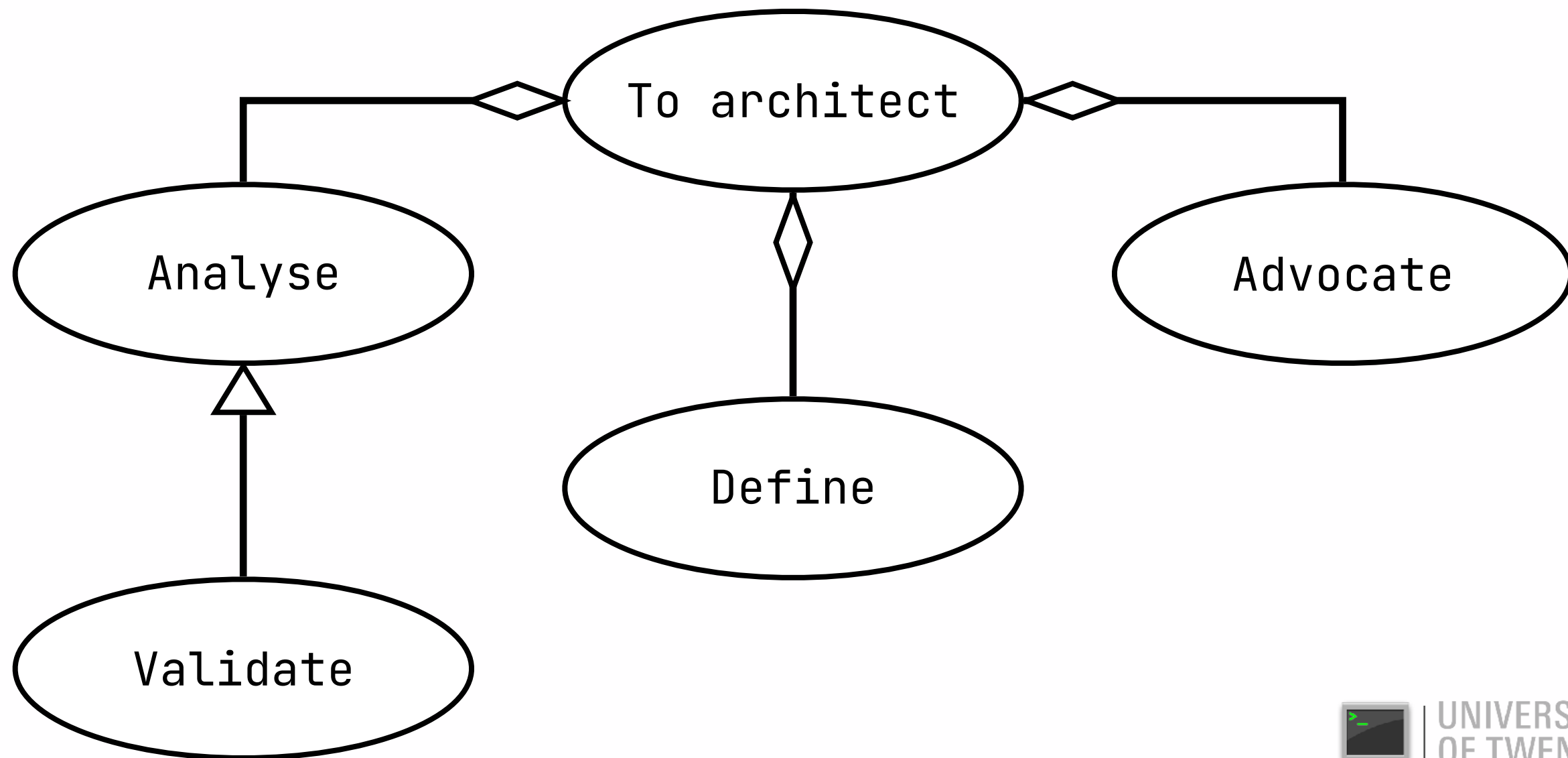
# Role of the software architecture



to provide  
solution direction  
for  
most important properties  
that are  
the most difficult to realise

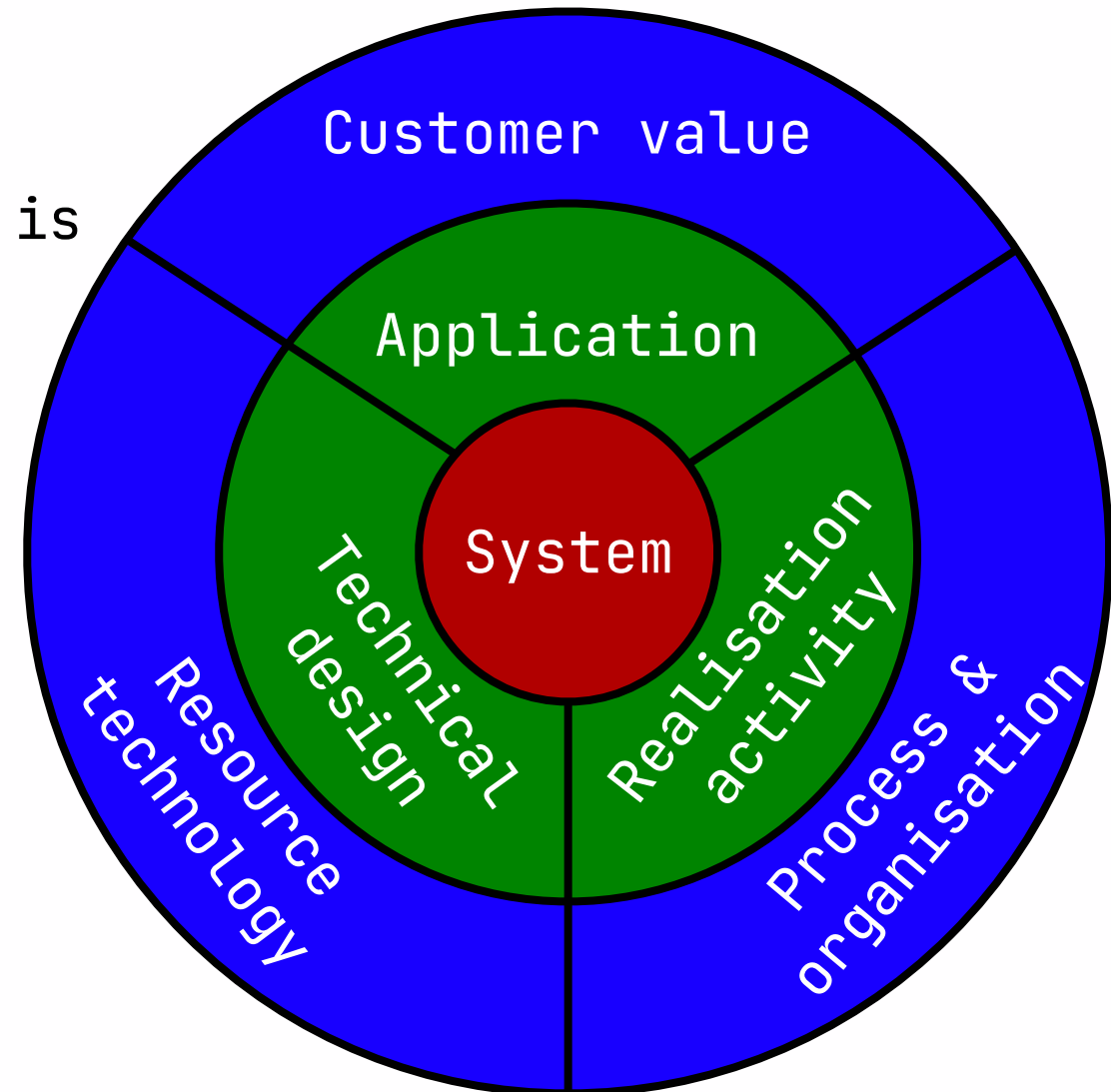


# What does it mean to architect?

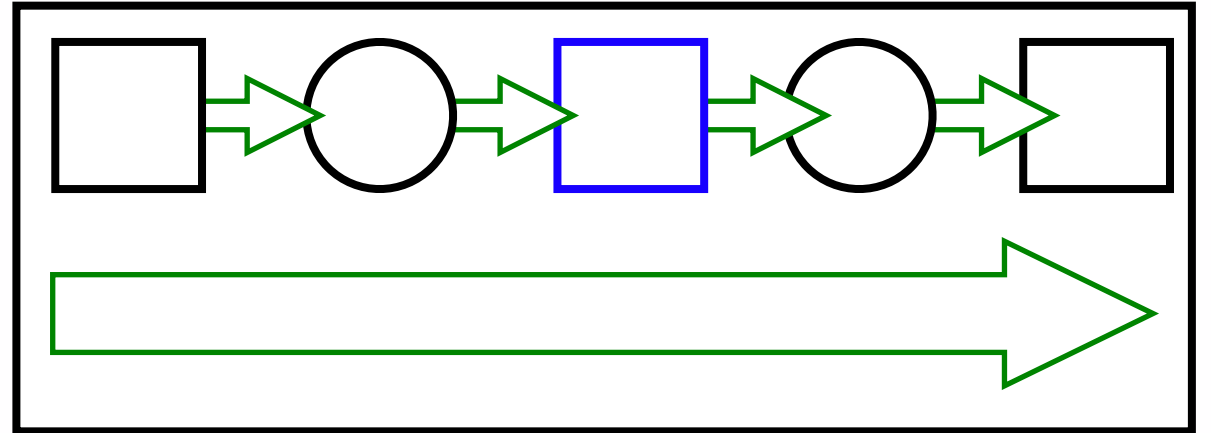
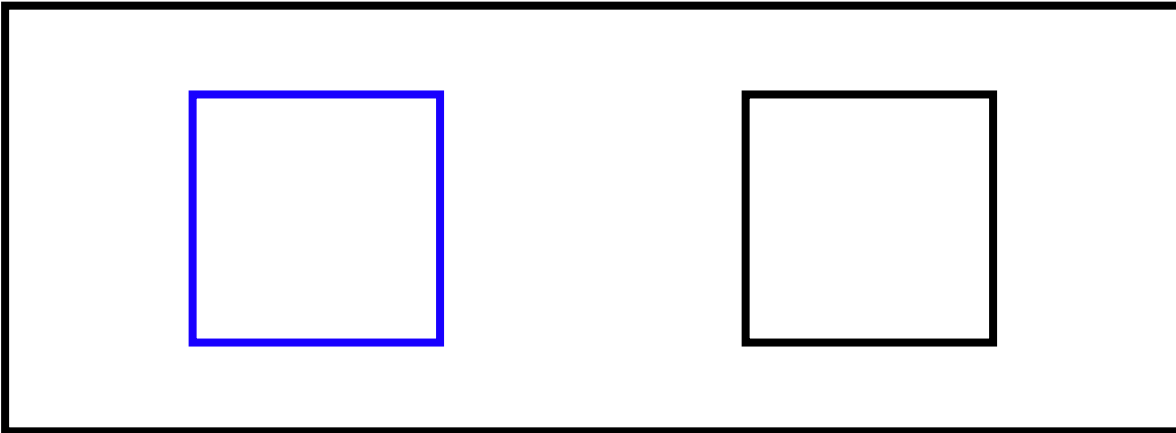
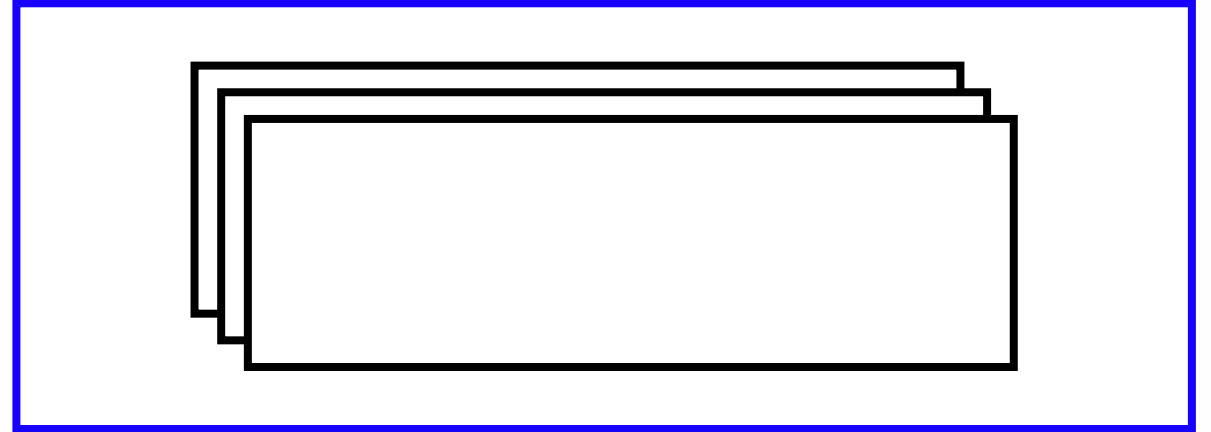
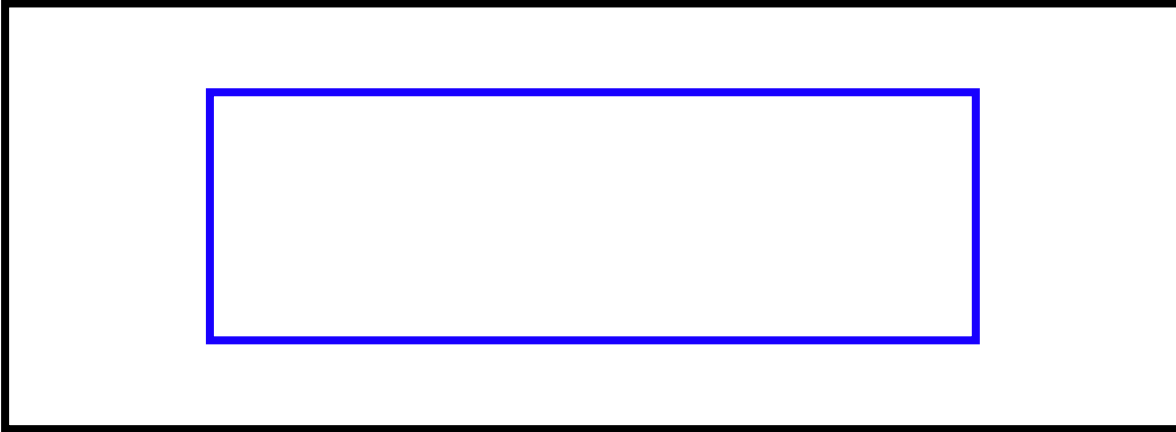


# Software architecture

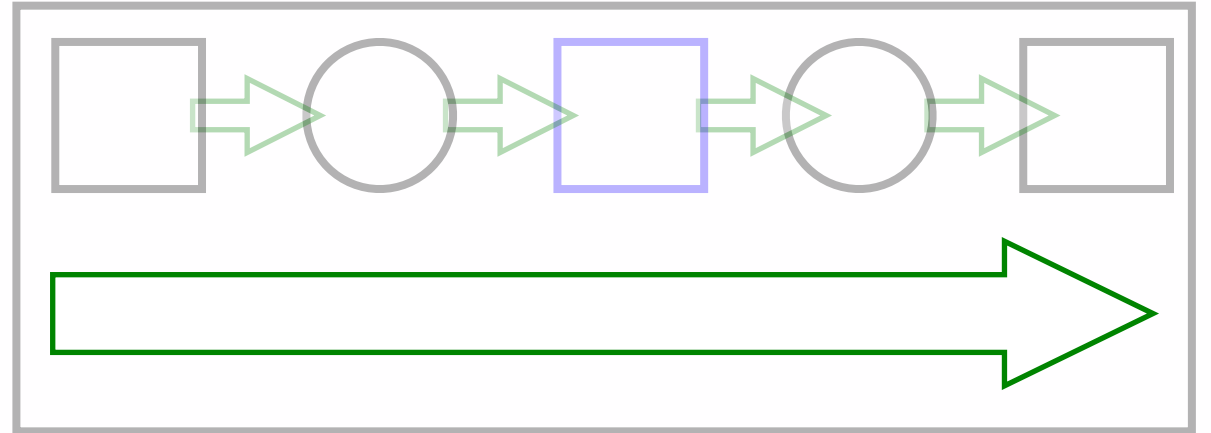
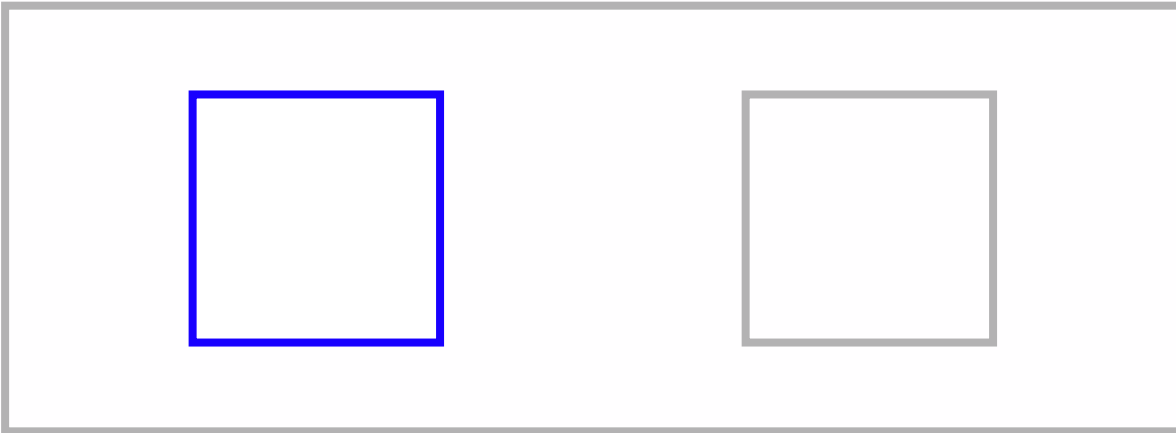
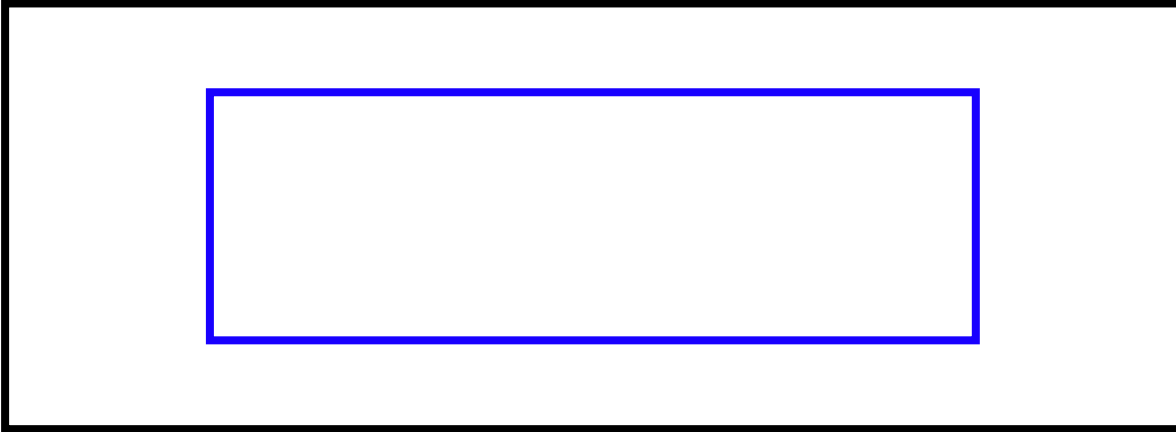
- The software architecture of a system is
  - a collection of statements
  - that gives direction to
    - the design
    - the realisation and
    - the evolution
  - of the **software in its environment**
- Statements are a model of:
  - structure
  - guidelines for creating structure



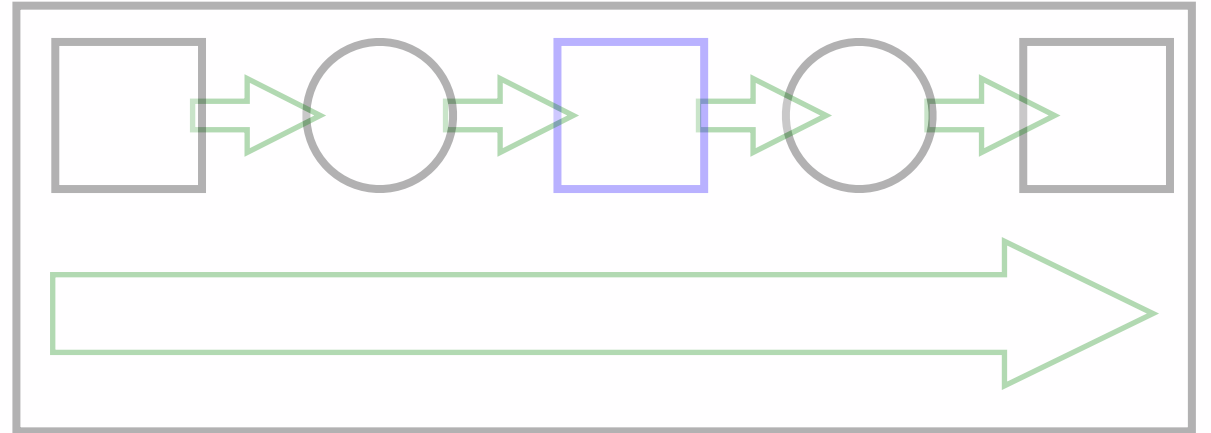
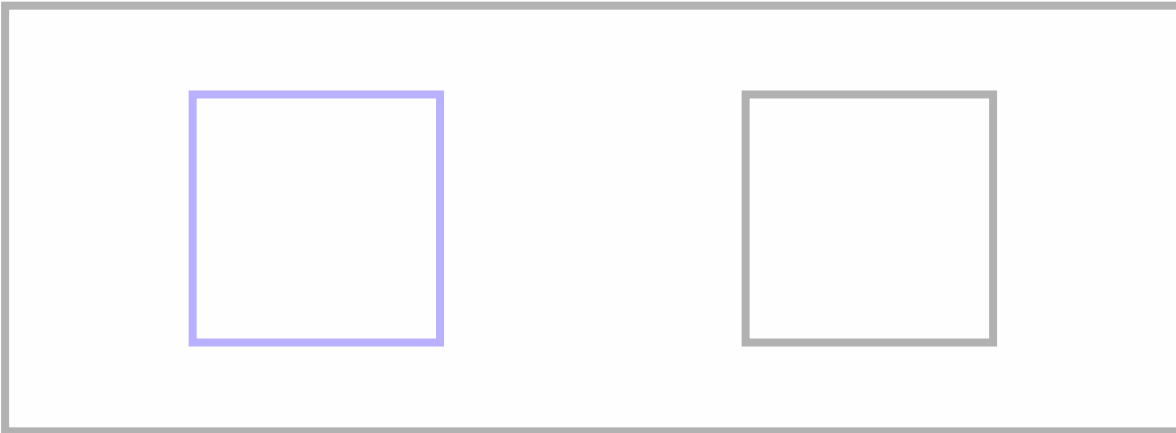
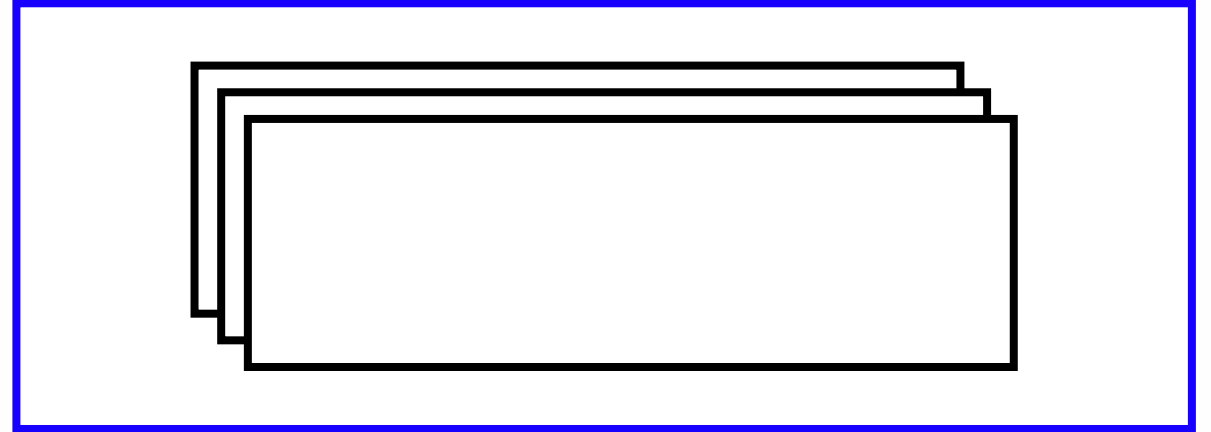
# How can systems relate?



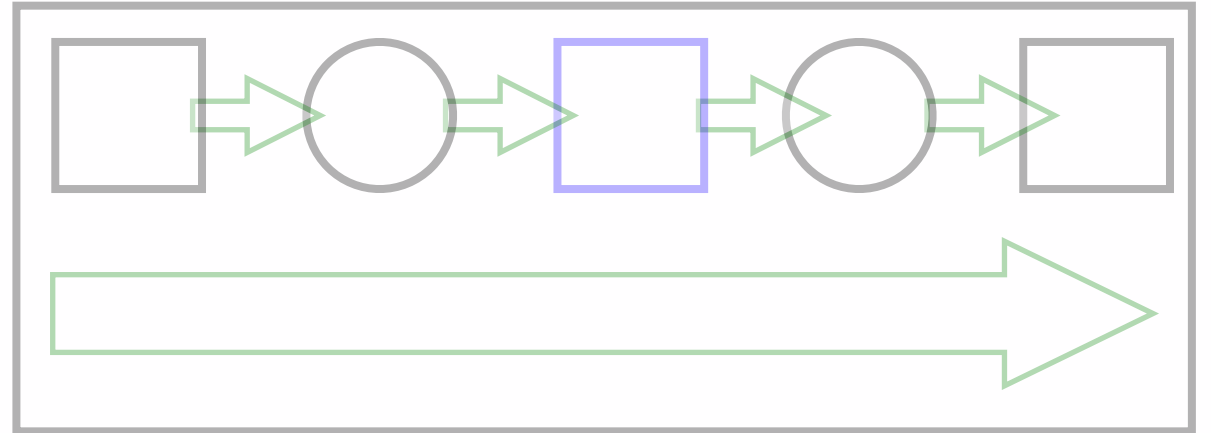
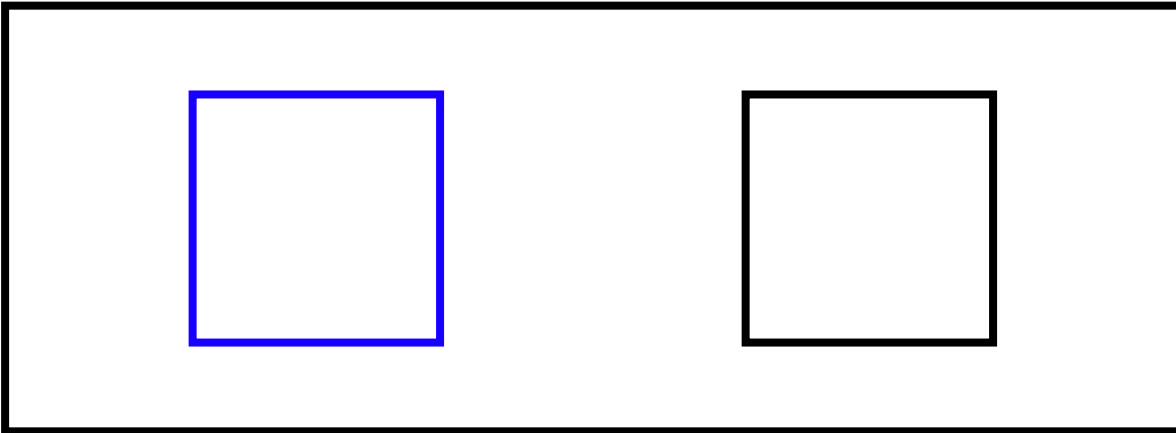
# Role of an Architect?



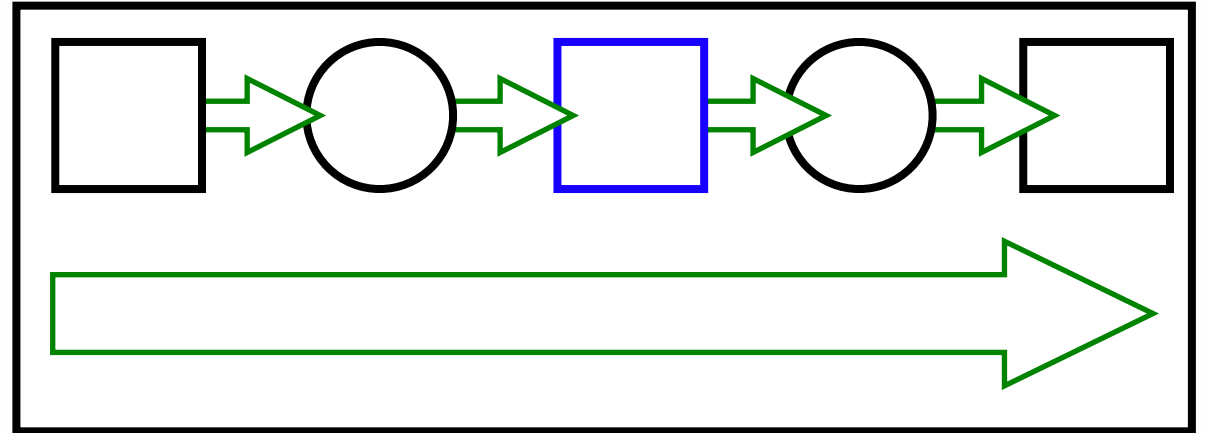
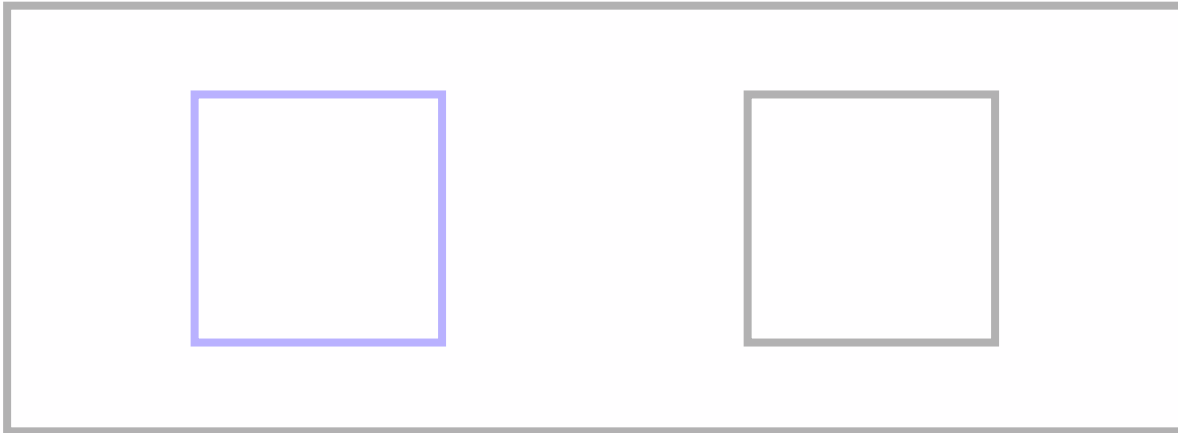
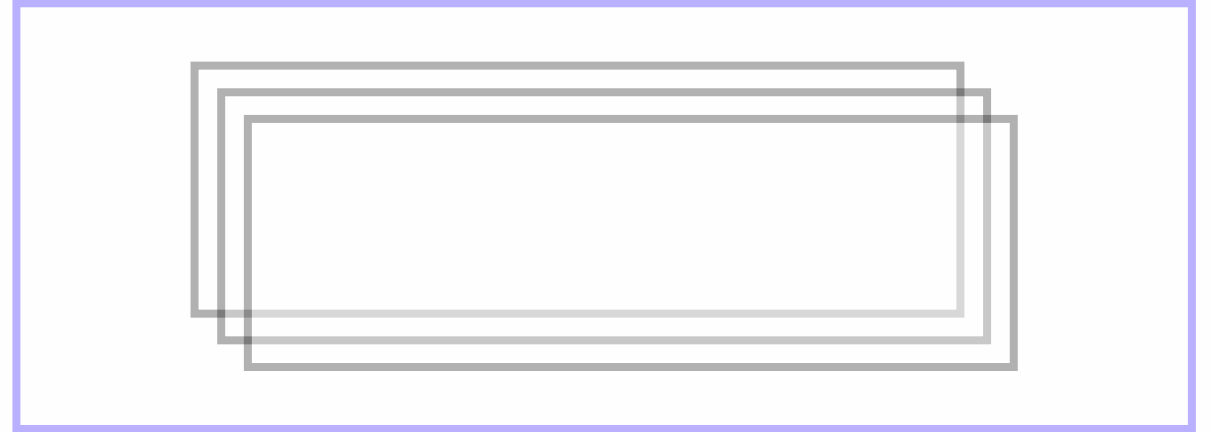
# Role of an Architect?



# Role of an Architect?



# Role of an Architect?



# Identify related systems

- Define which type of **relation** each has with yours
- with respect to
  - **Functionality**
  - **Design**
  - **Realisation**
- **Visualise** relations between your system and systems in the environment.

