Defining System and Context Boundaries
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2.1 System & System Context

- Purpose of the System Context
- Aspects within the System Context
- Definition
Purpose of the System Context

Which questions answer thoughts about the system context?

1. Which aspects pertain to the system, which do not?
   - aspects that must be specified
   - aspects that don’t have to be specified

1. Which aspects stand in a direct relation to the system?
   - aspects that must be considered during specification
The **system context** is the part of the system environment that is relevant for the definition as well as for the understanding of the requirements of a system to be developed.
2.2 System and Context Boundaries

- Considering Boundaries
- Definition
- Gray Zones
Considering Boundaries

Considering Boundaries during system development
The **system boundary** separates the system to be developed from its environment; i.e. it separates the part of the reality that can be modified or altered by the development process from aspects of the environment that cannot be changed or modified by the development process.
The **context boundary** separates the relevant part of the environment of a system to be developed from the irrelevant part, i.e., the part that does not have to be considered during requirements engineering.
Gray Zones

Gray zones of the definition of system and context boundaries

Aspects that have not been assigned to the system or the system context lie in the gray zone.

System
2.3

- A Simple Example
- Data Flow Diagram
- Use Case Diagram
Data Flow Diagram

Which data flows back and forth?

... often called context diagram.
Use Case Diagram

Who or what is involved in which use cases?

- uc Library System
- Library System
  - reserve rental object
  - order rental object
  - manage customer data
- «actor» versand
- customer
Any further questions?
References - Pictures

- Title: Rückspeigel (Rear-view Mirror)
  - Source: -
  - Author: Chris Rupp

- Title: Genau betrachtet (Looked at more closely)
  - Source: aboutpixel.de
  - Author: -

- Title: Schattenspiel Industriebau neutral (Shadow Play Industrial Building neutral)
  - Source: aboutpixel.de
  - Author: Rainer Sturm