

# Qualities as Integrating Needles

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## Abstract

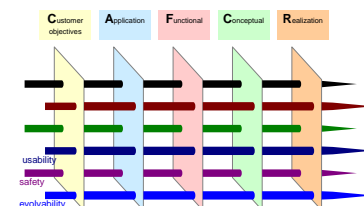
Many stakeholder concerns can be specified in terms of qualities. These qualities can be viewed from all 5 “CAFCR” viewpoints. In this way qualities can be used to relate the views to each other.

The meaning of qualities for the different views is described. A checklist of qualities is provided as a means for architecting. All qualities in the checklist are described briefly.

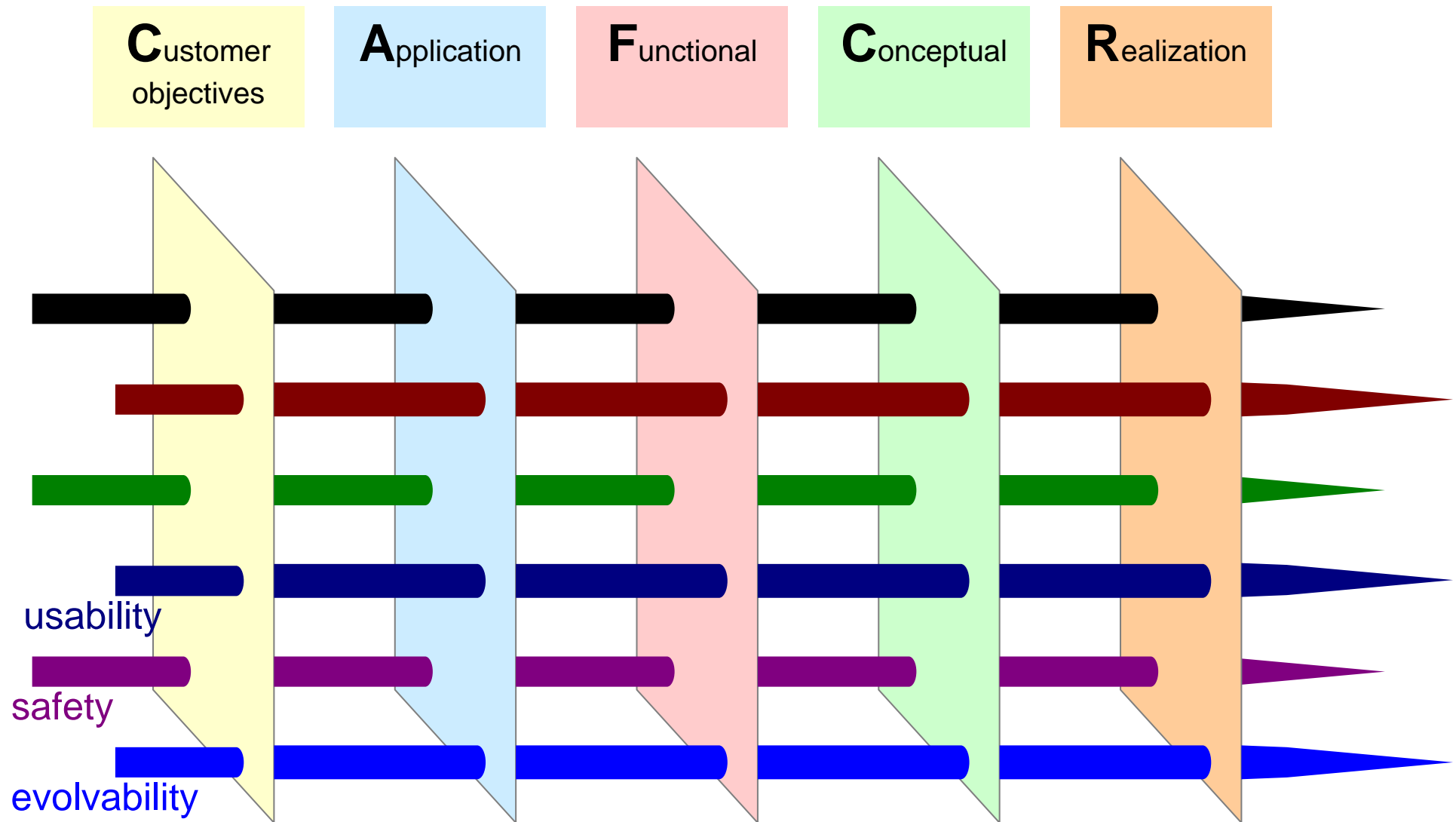
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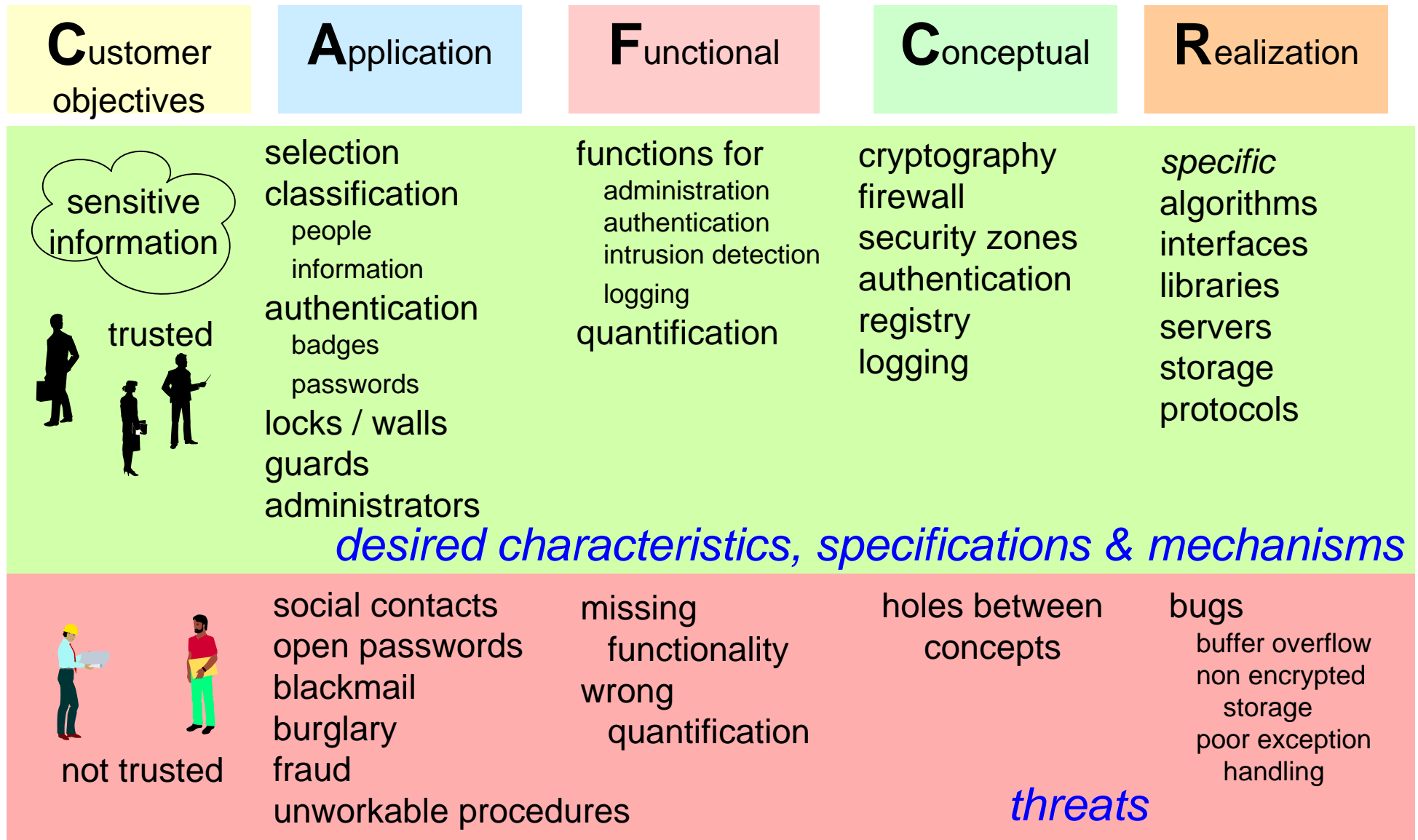
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# Quality needles as generic integrating concepts



# Security as example through all views



# Quality Checklist

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## usable

usability  
attractiveness  
responsiveness  
image quality  
wearability  
storability  
transportability

## dependable

safety  
security  
reliability  
robustness  
integrity  
availability

## effective

throughput or  
productivity

## interoperable

connectivity  
3<sup>rd</sup> party extendible

## liable

liability  
testability  
traceability  
standards compliance

## efficient

resource utilization  
cost of ownership

## consistent

reproducibility  
predictability

## serviceable

serviceability  
configurability  
installability

## future proof

evolvability  
portability  
upgradeability  
extendibility  
maintainability

## logistics friendly

manufacturability  
logistics flexibility  
lead time

## ecological

ecological footprint  
contamination  
noise  
disposability

## down to earth attributes

cost price  
power consumption  
consumption rate  
(water, air,  
chemicals,  
et cetera)  
size, weight  
accuracy