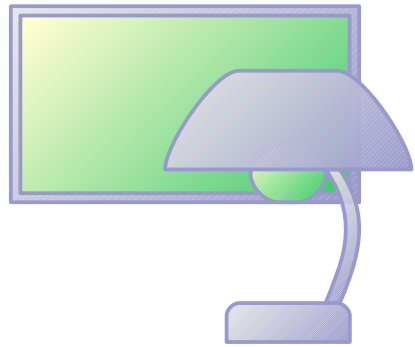


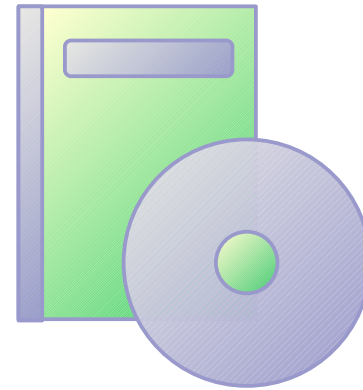
# **ユーザ嗜好インタフェース実現のための セマンティック・ウェブ応用**

**北海道大学 大学院情報科学研究科  
柳田拓人 野中秀俊 栗原正仁**

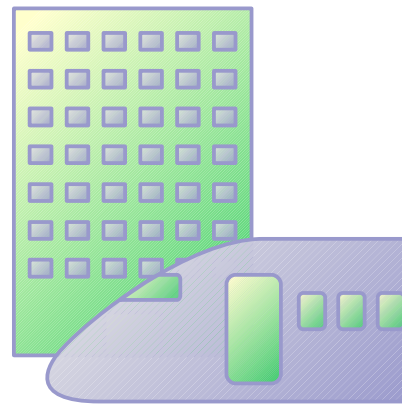
# Increasing services:



**Appliances**

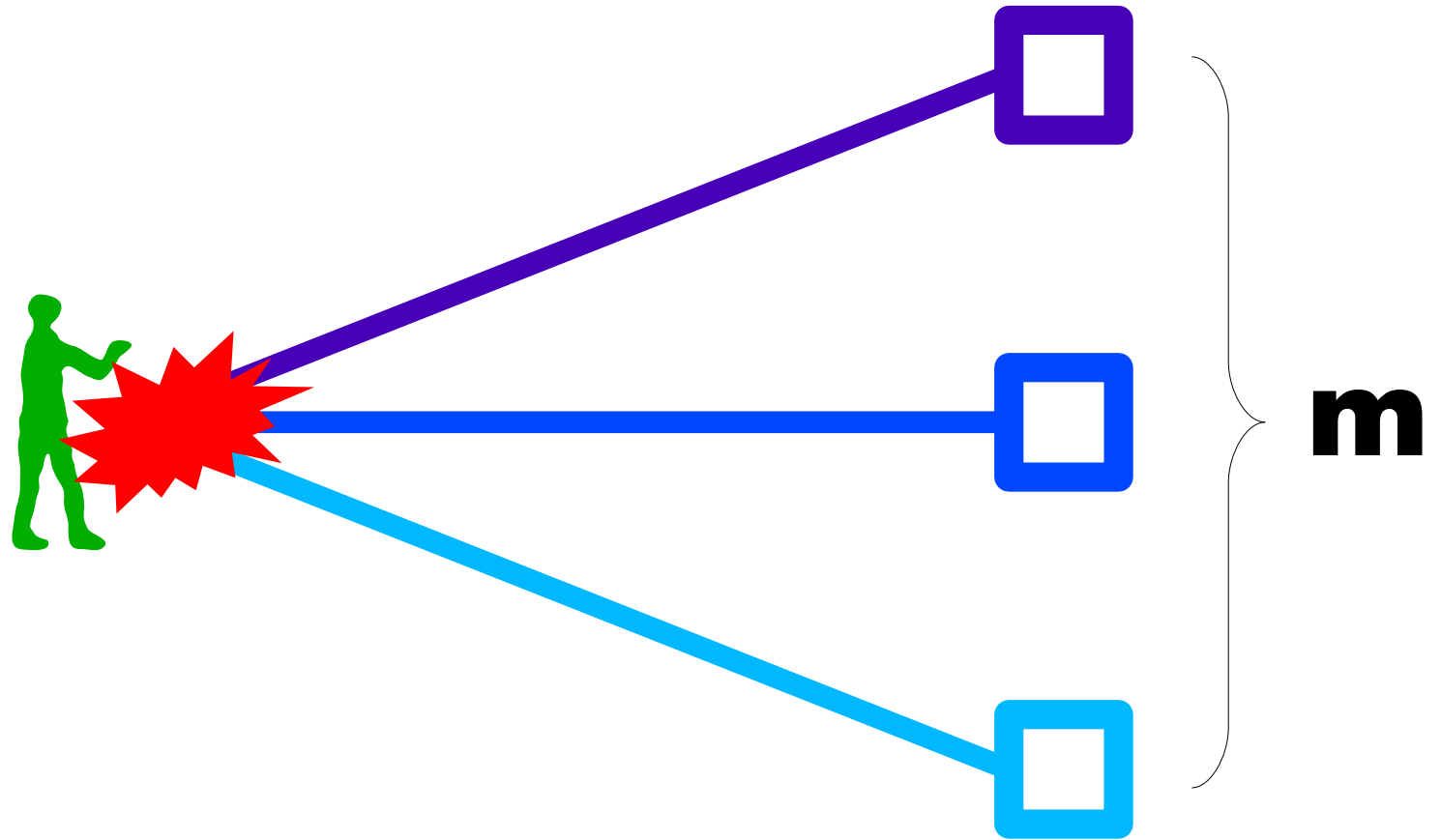


**Shopping**



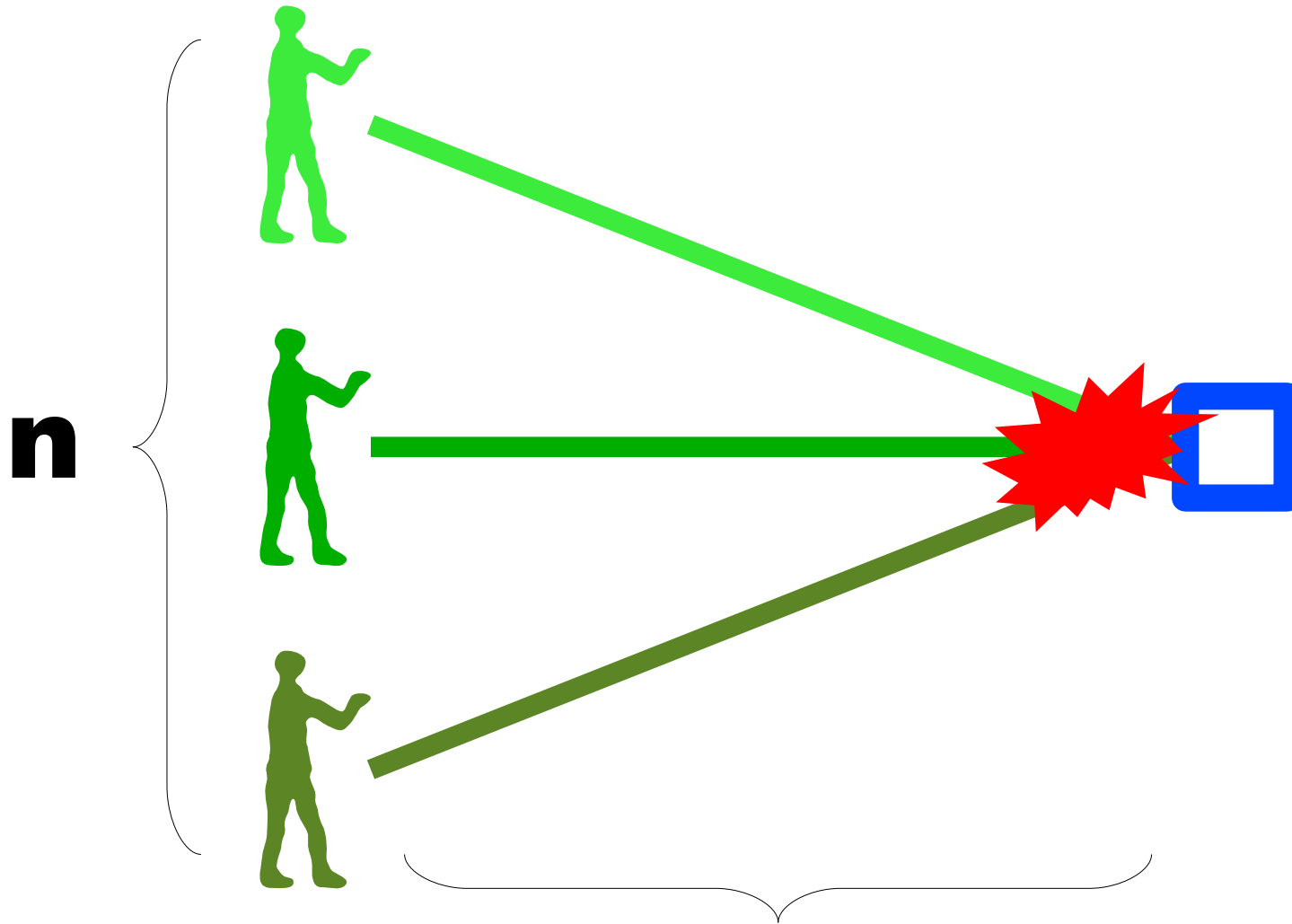
**Reservations**

# For low cost



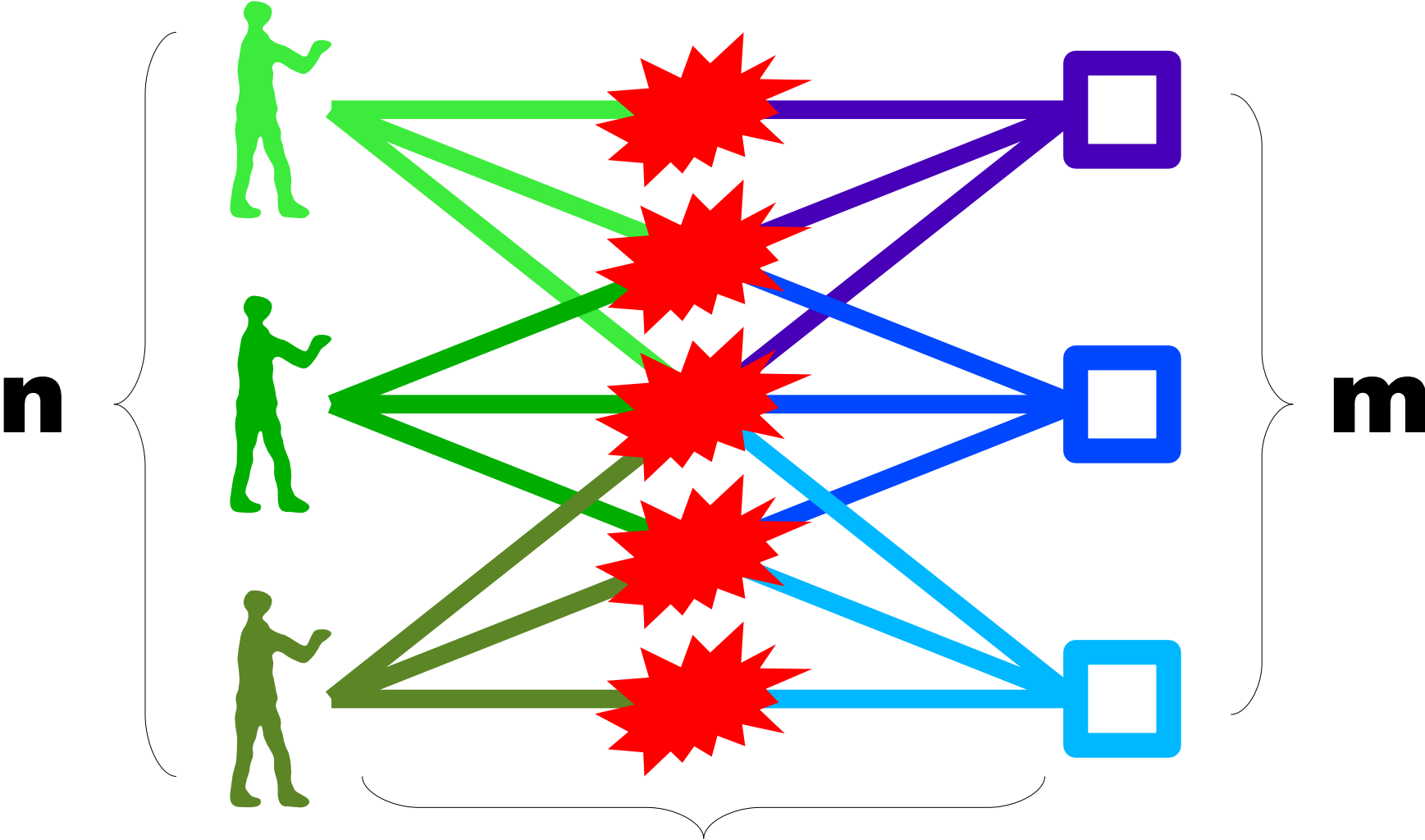
**m conflicts**

# For high usability



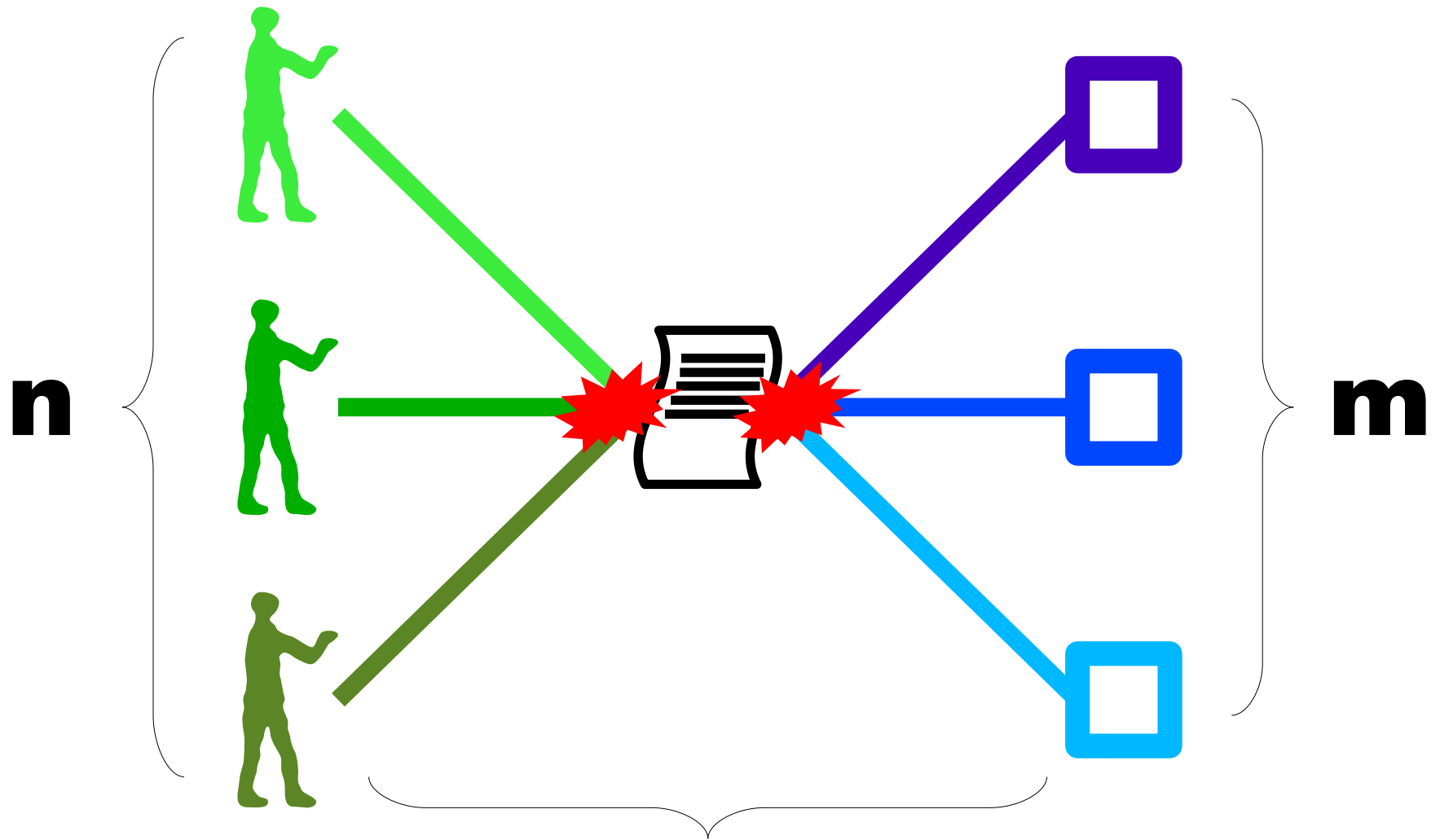
**n conflicts**

# Solution?

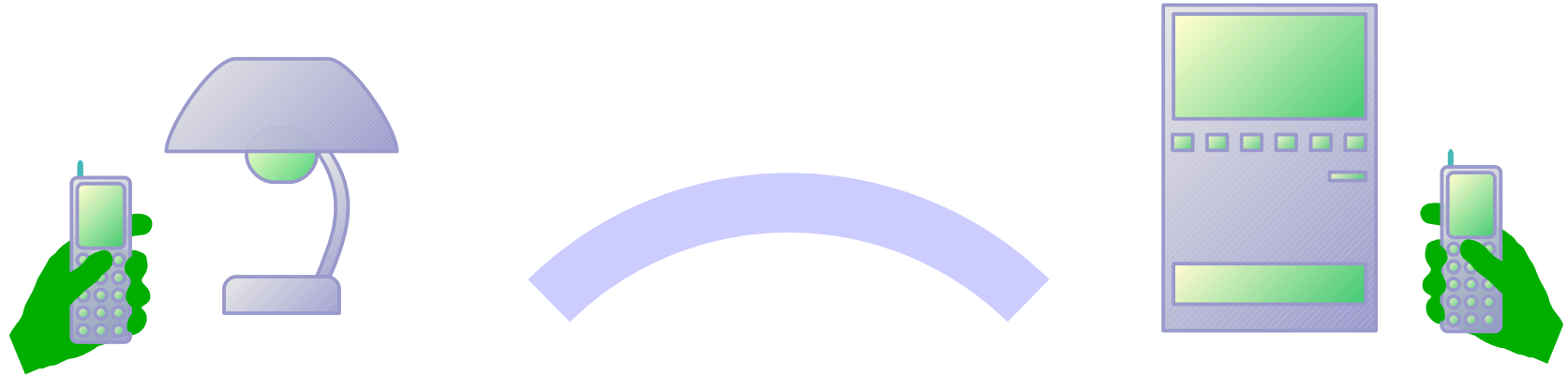


**$m \cdot n$  conflicts**

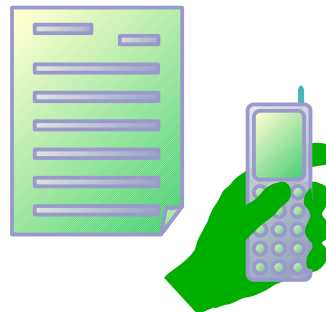
# Proposal Architecture

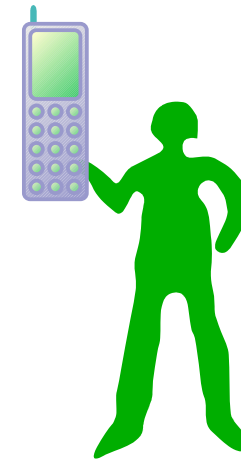
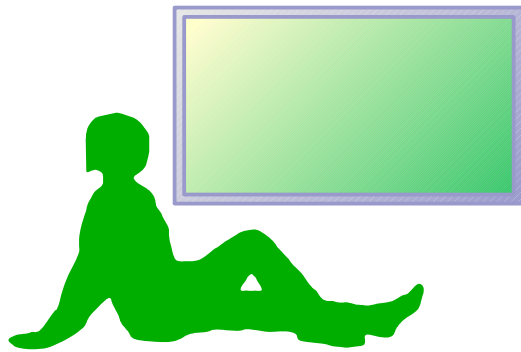


**$m+n$  conflicts**



# One Interface Any Services

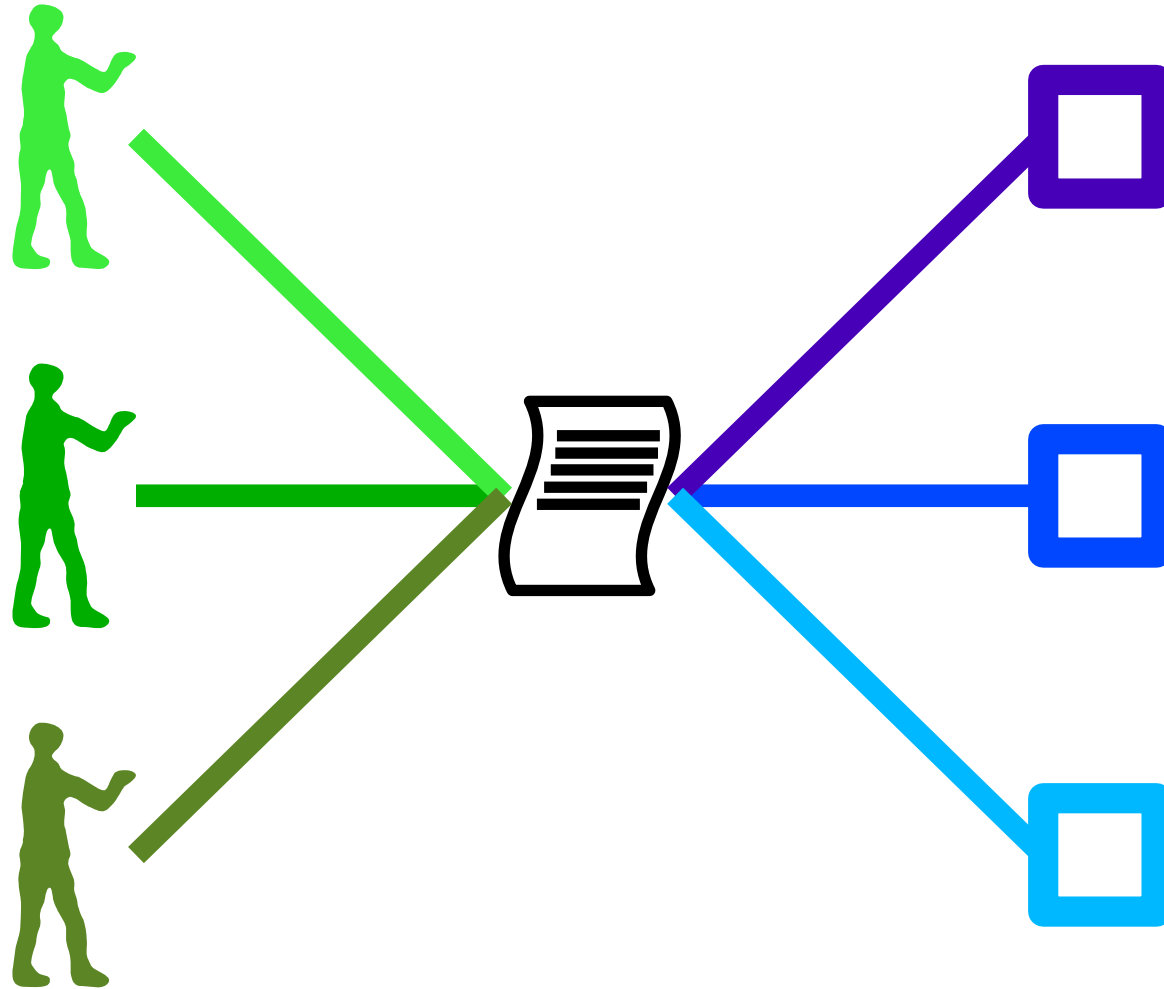




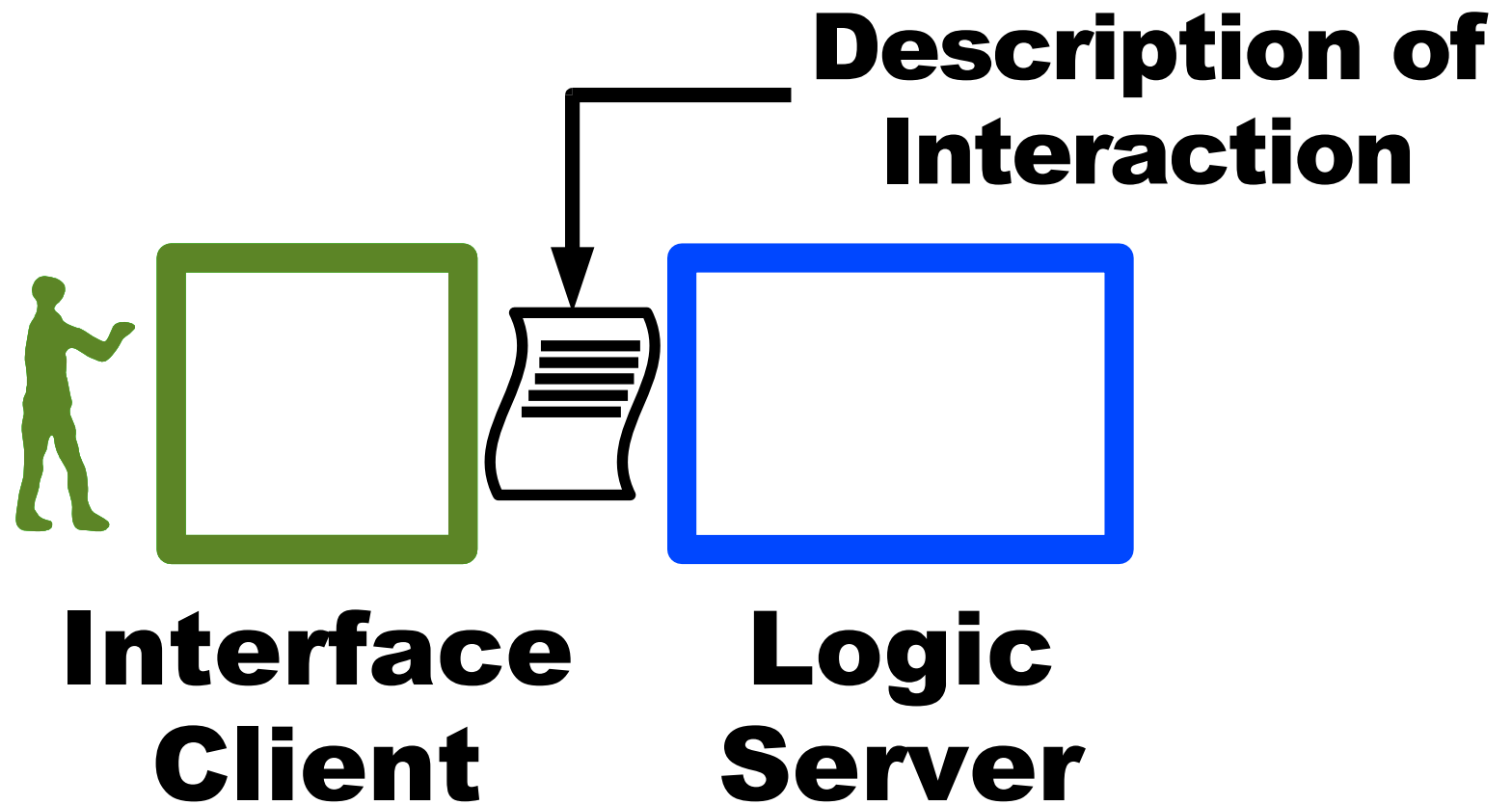
# One Service Any Interfaces

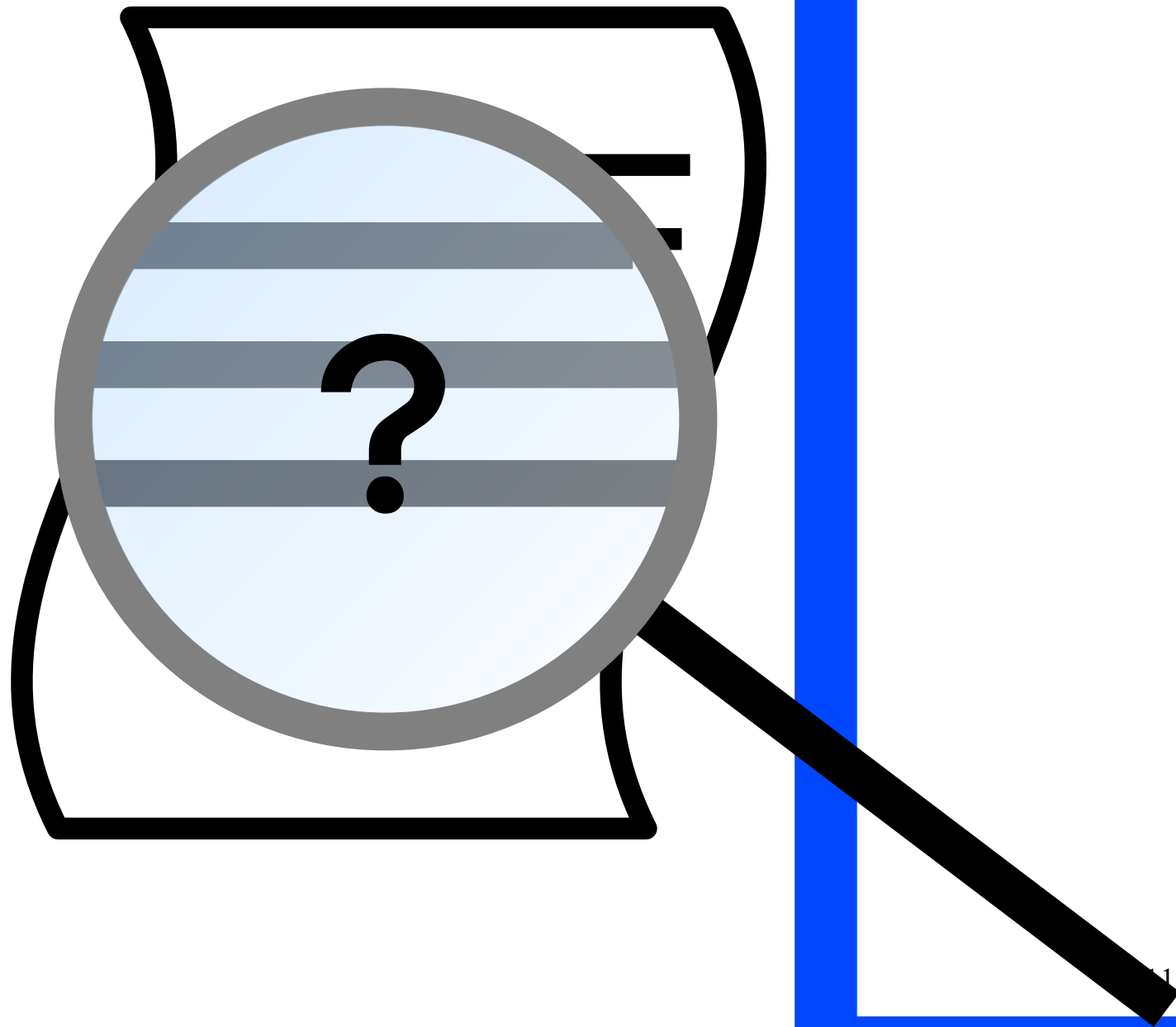






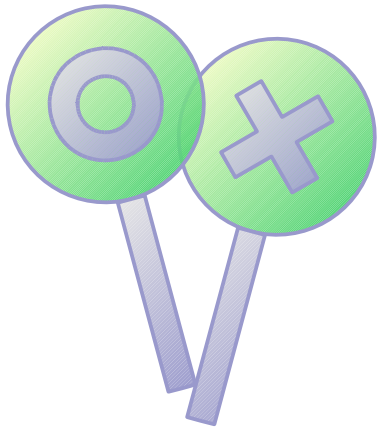
# Proposal Architecture



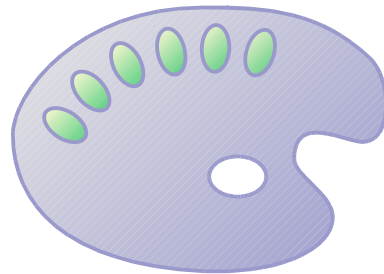


# Description of Interaction

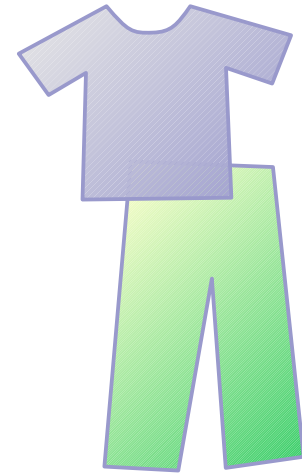
- **What's the selection's meaning?**



**YesNo**



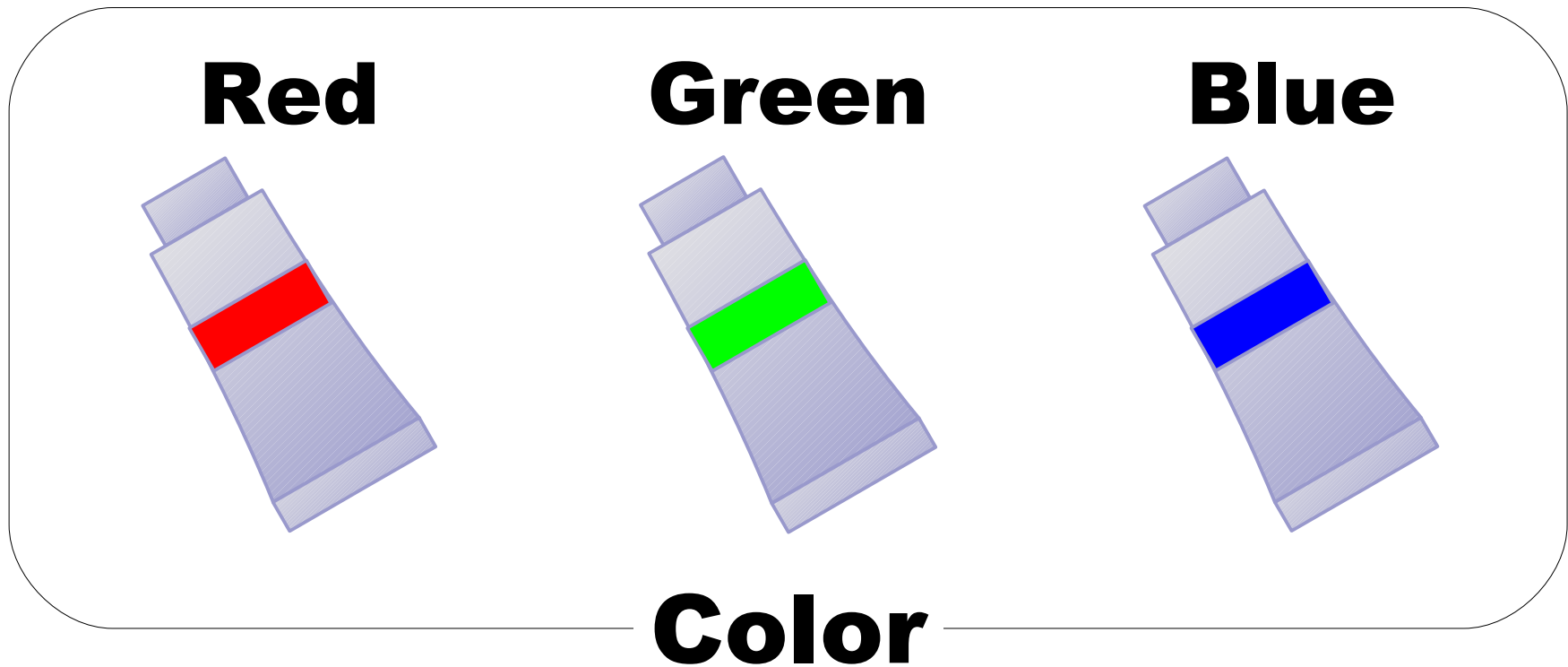
**Color**



**Clothes**

# Description of Interaction

- **What're the choices?**



# RDF

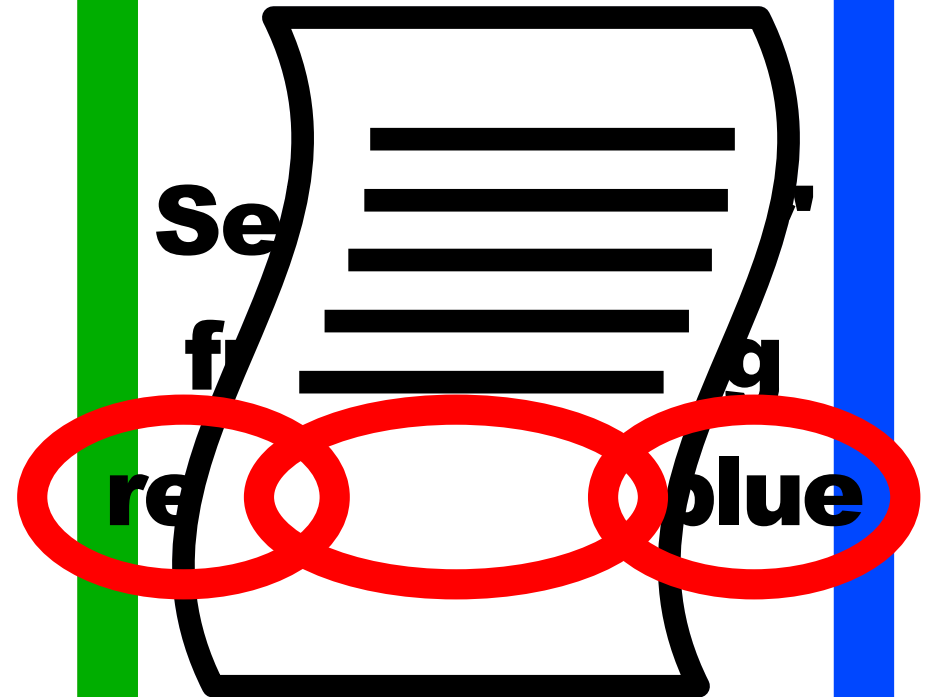
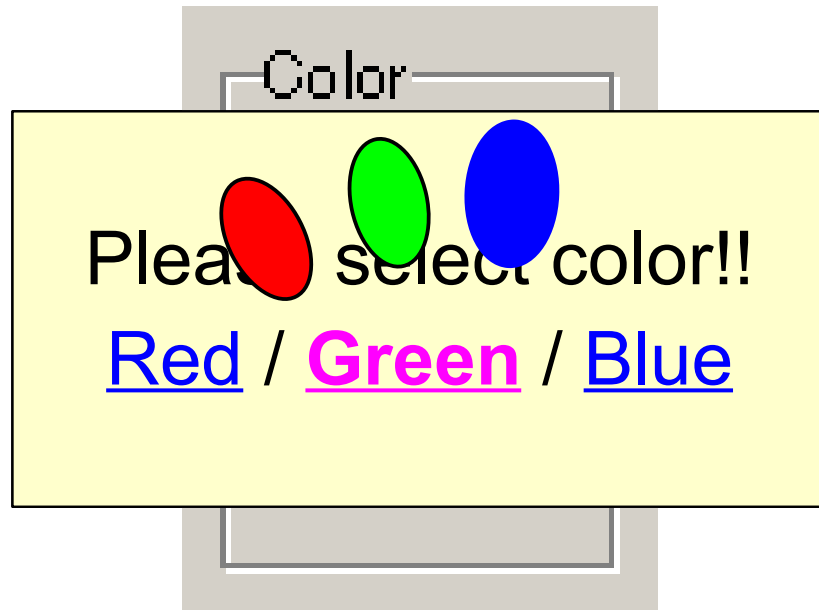
(Resource Description Framework)

Meanings as **Classes**

Choices as **Resources**

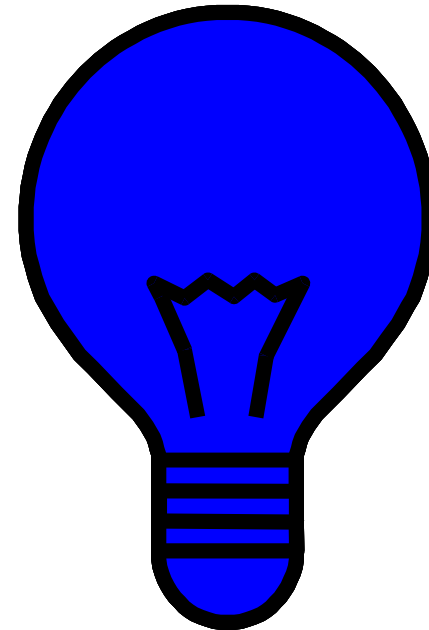
**AIDL**

(Abstract Interaction Description vocabulary)



**Interface Client**

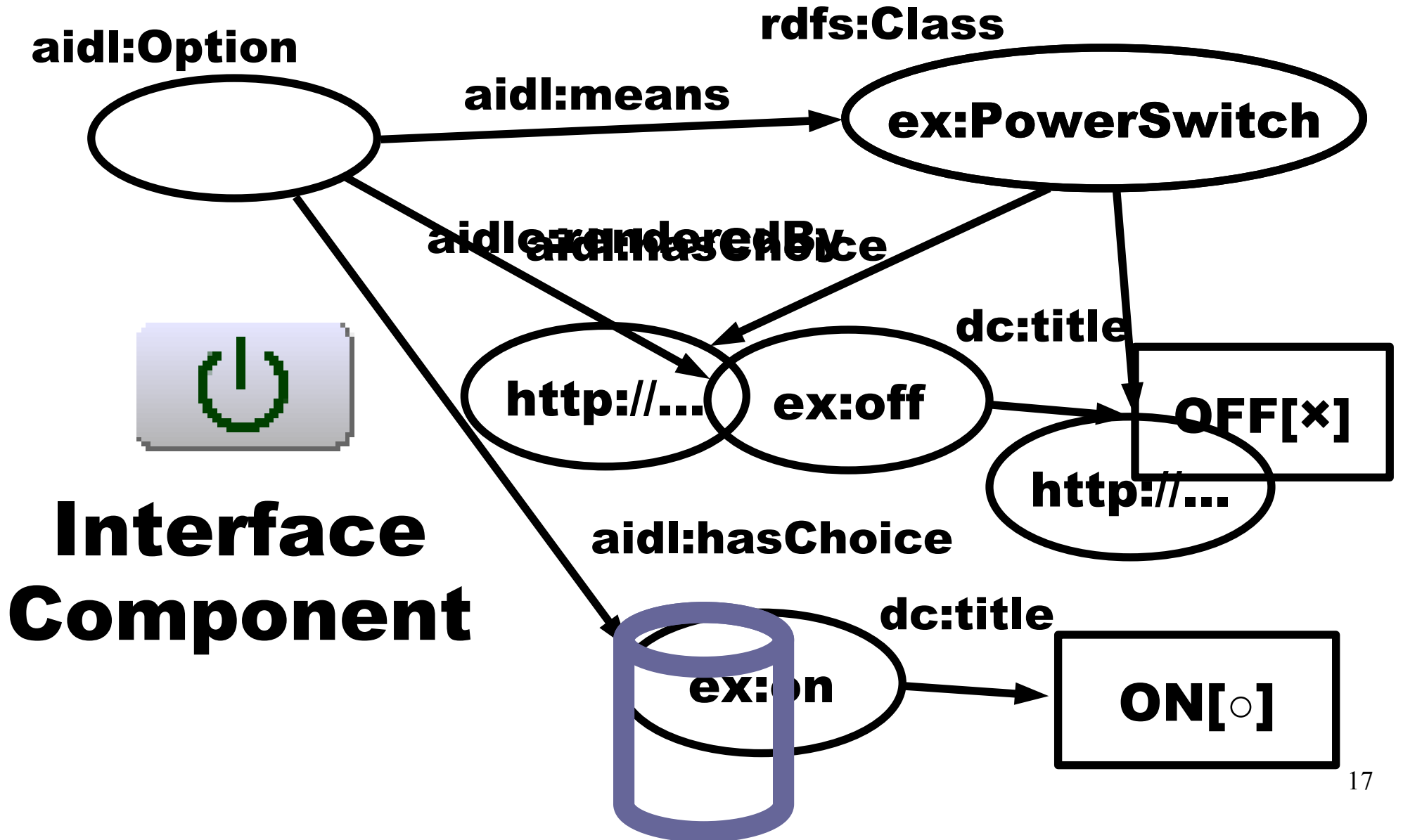
**Select 'Color'  
from among  
red, green, blue**



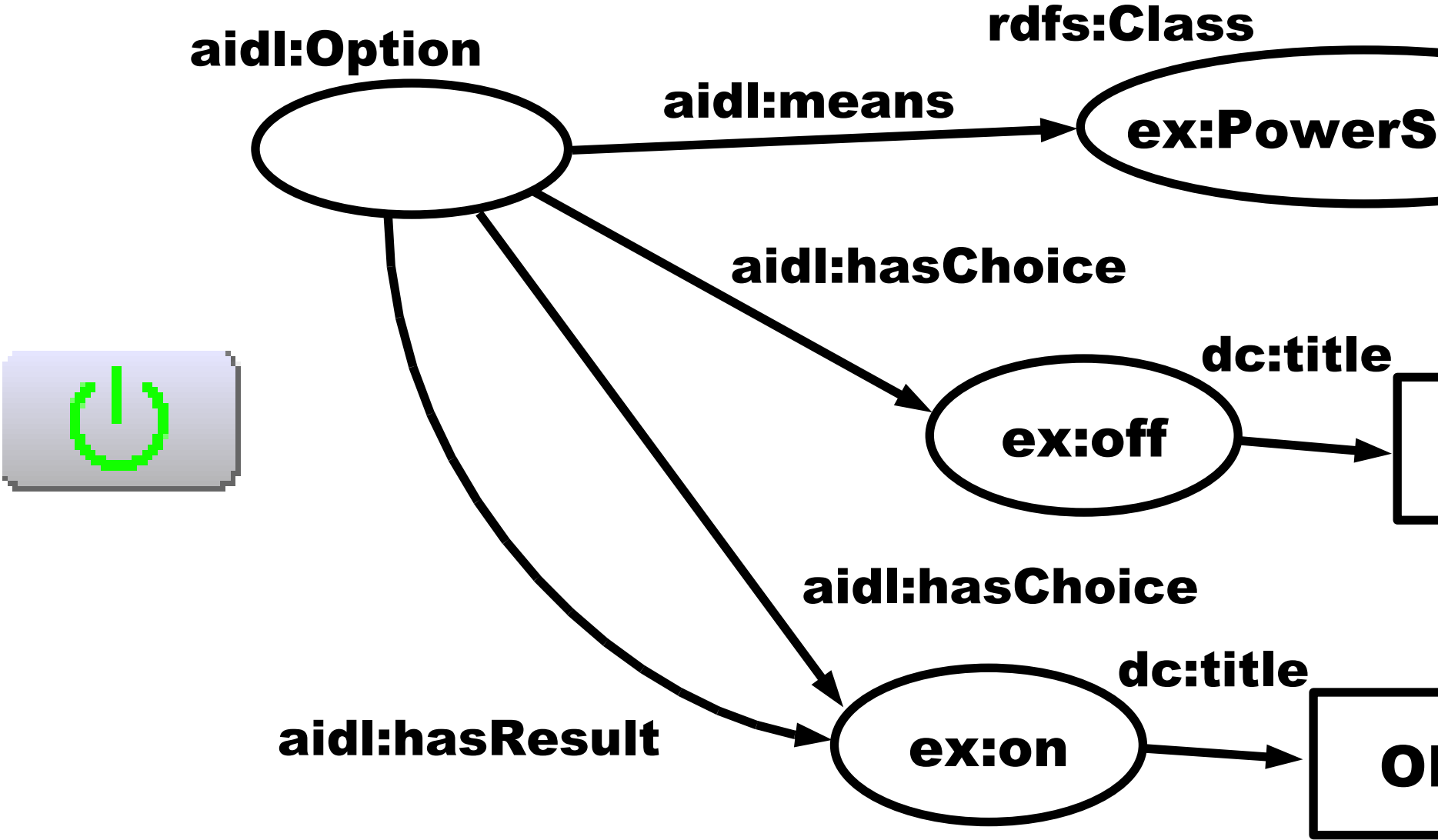
**Logic Server**



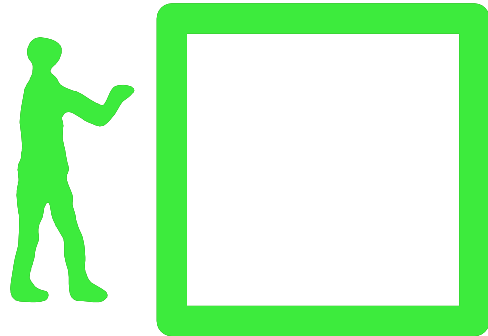
# Interpretation Process



# Interpretation Process



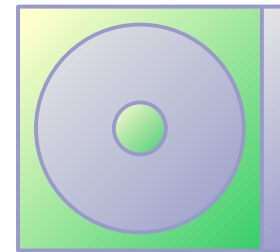
# Available Presentation



**Interface  
Client**

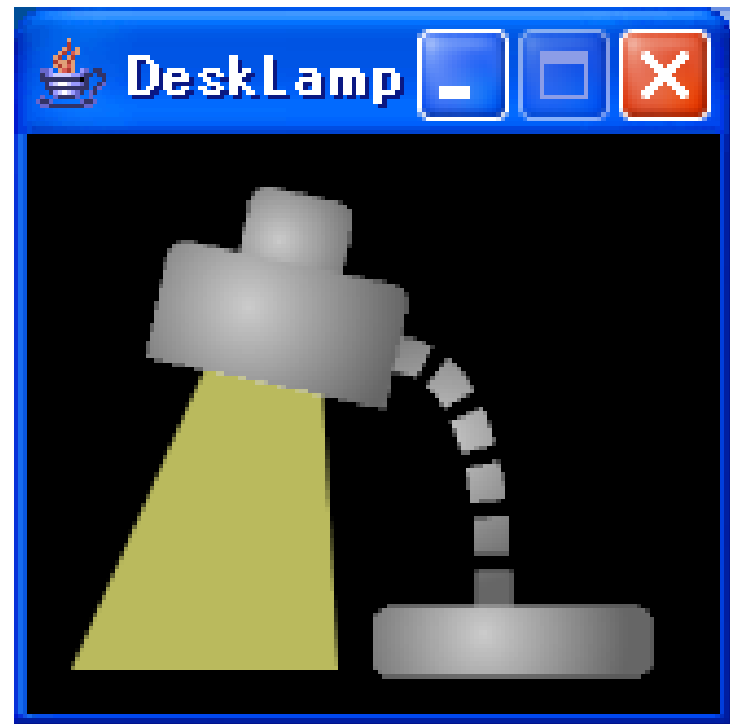


Nutcracker/  
Swan Lake



# Implementation

- **Framework**
  - **Java**
  - **Jena(Semantic Web Library)**
  - **TCP/IP**



# Conclusion

- **Interface client / logic server architecture**
- **AIDL (Abstract Interaction Description vocabulary)**
- **Framework**

