

# Mind Maps sans Frontières

Dilshod Kuryazov, Florian Schmalriede, Christian Schönberg, Kevin Meyer, Andreas Winter



### Collaborative Mind Mapping

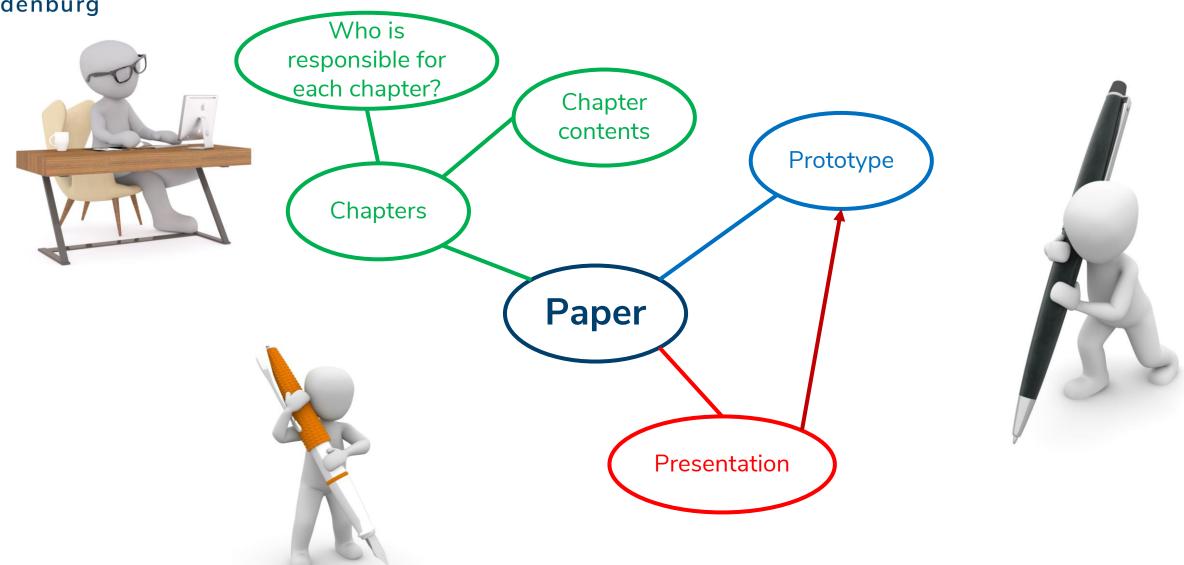






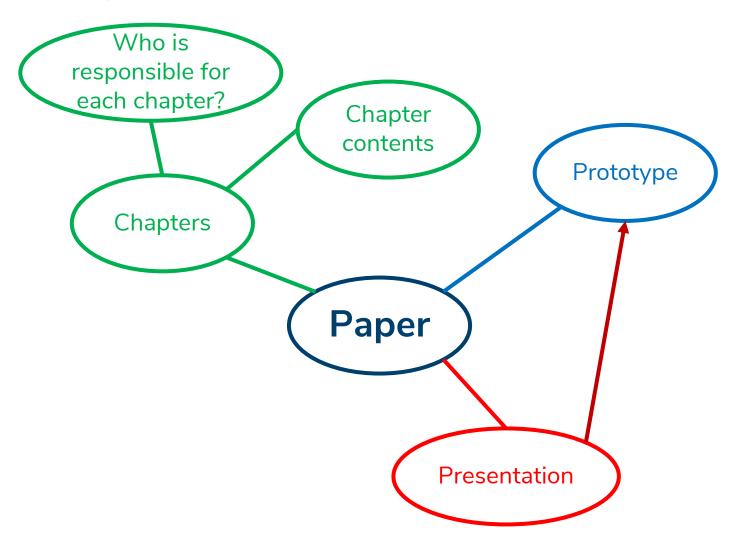


### Collaborative Mind Mapping



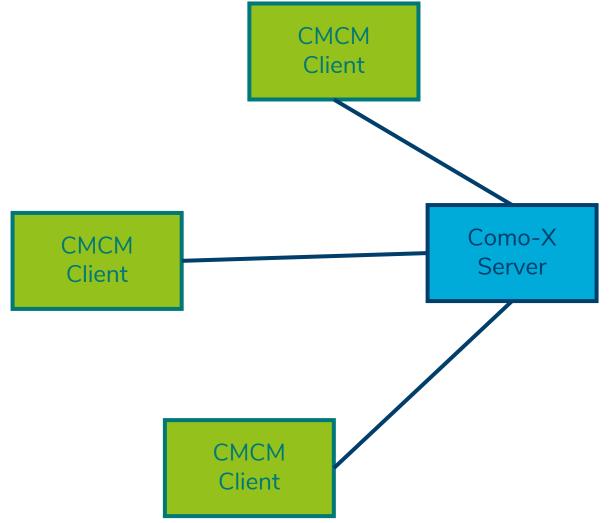


### Mind Maps



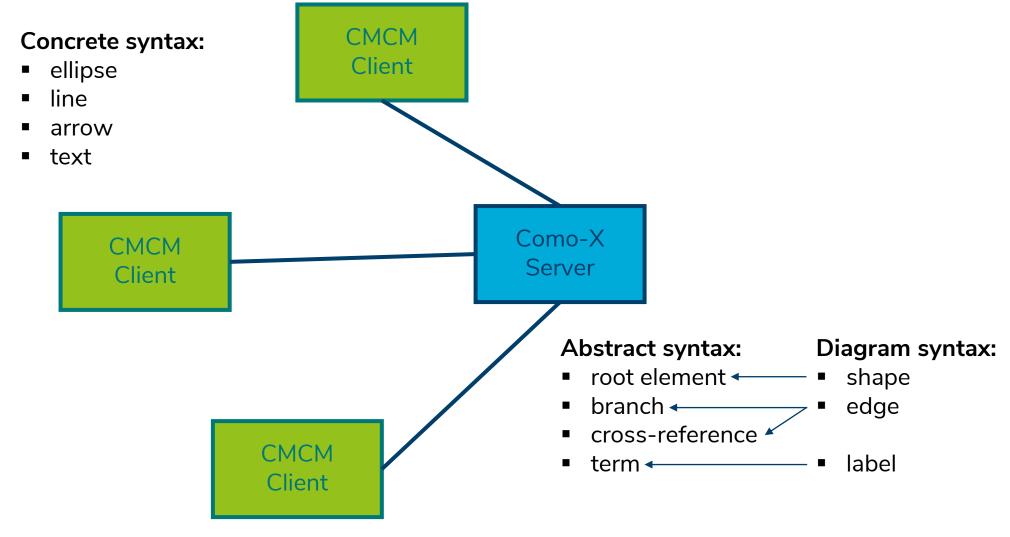


### CMCM – Architecture



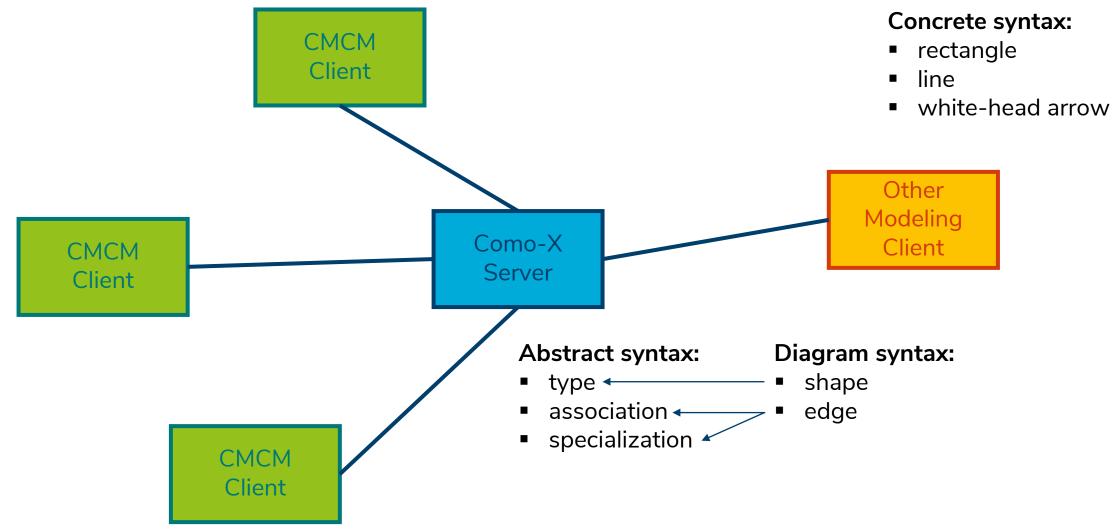


### CMCM – Meta-Models



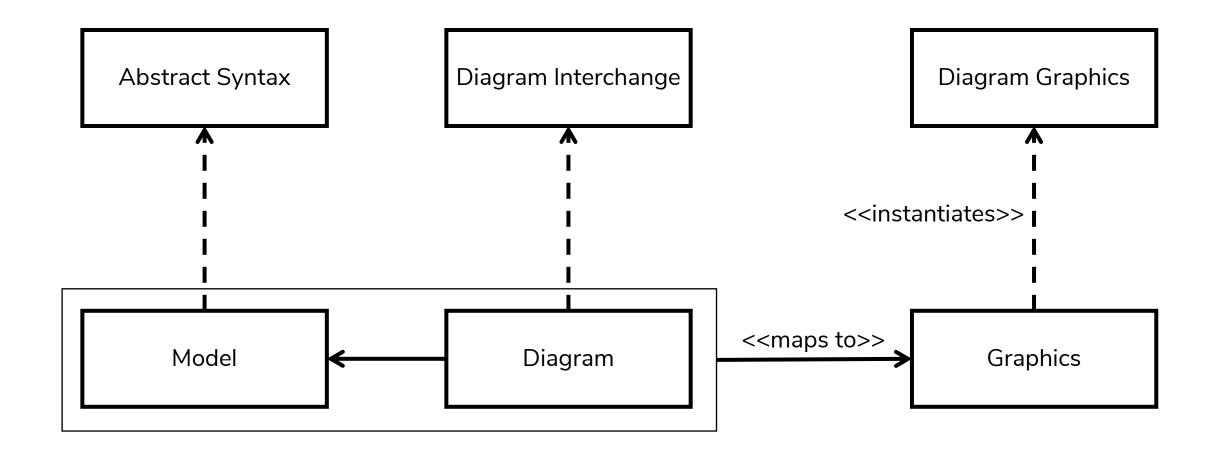


### CMCM – Meta-Models



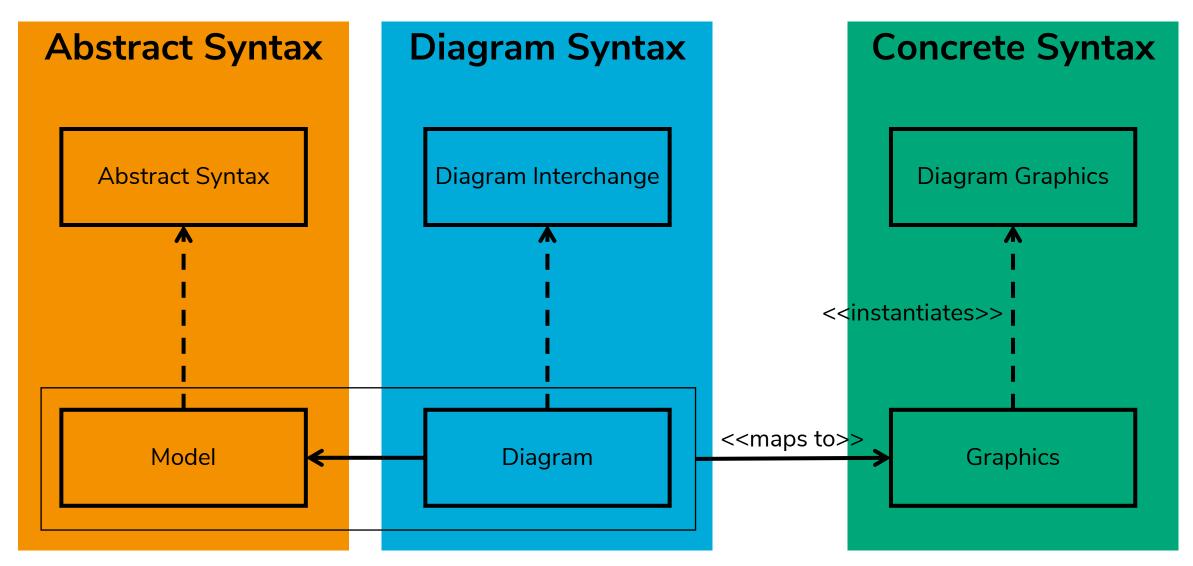


### CMCM – Meta-Models vs. OMG Diagram Definition



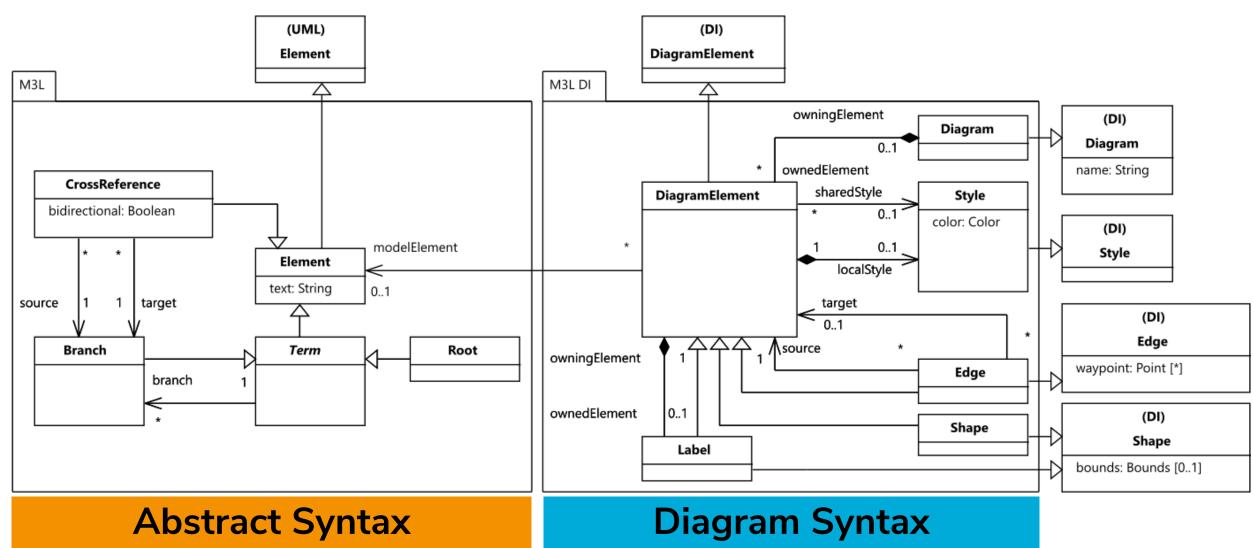


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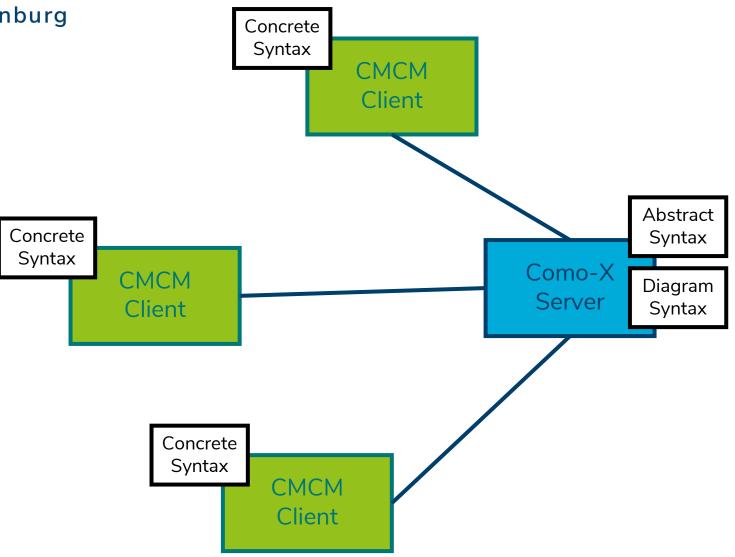


### CMCM – Metamodels



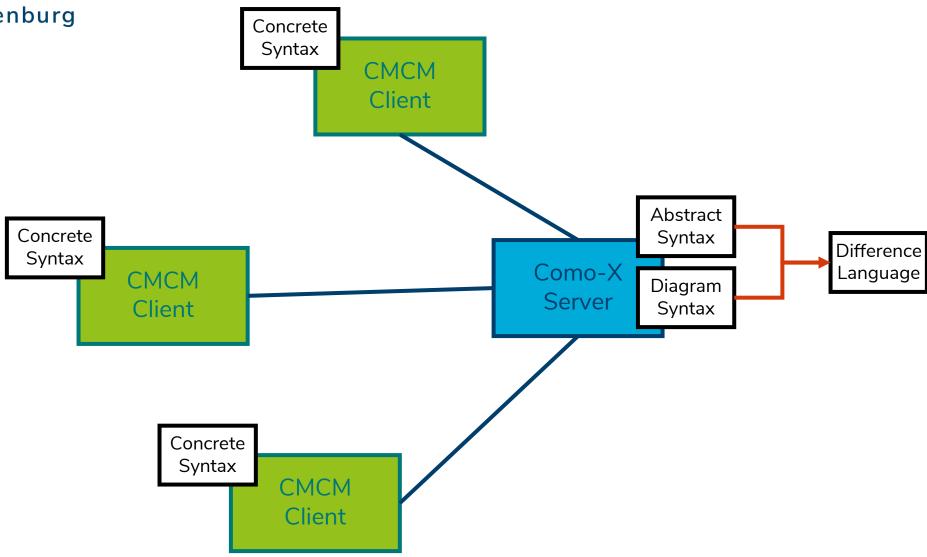
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### CMCM – Difference Language



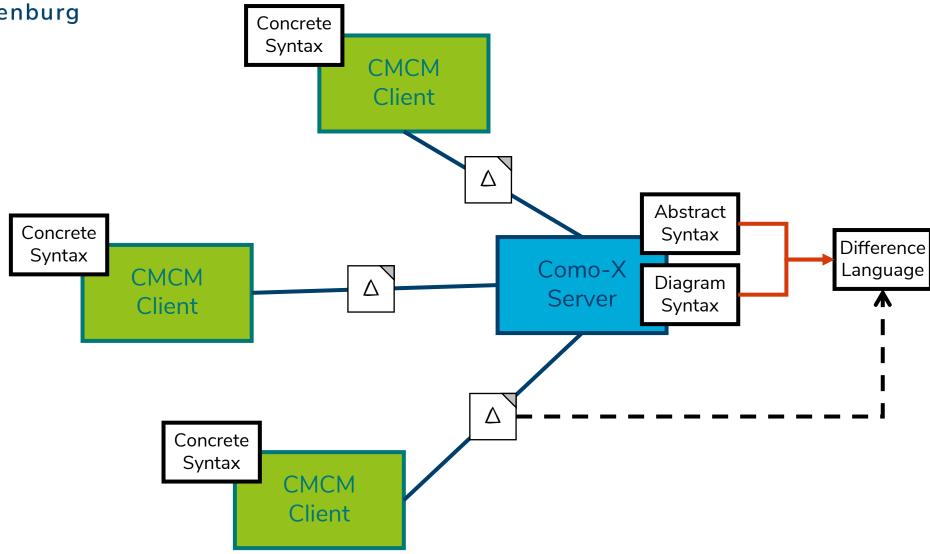
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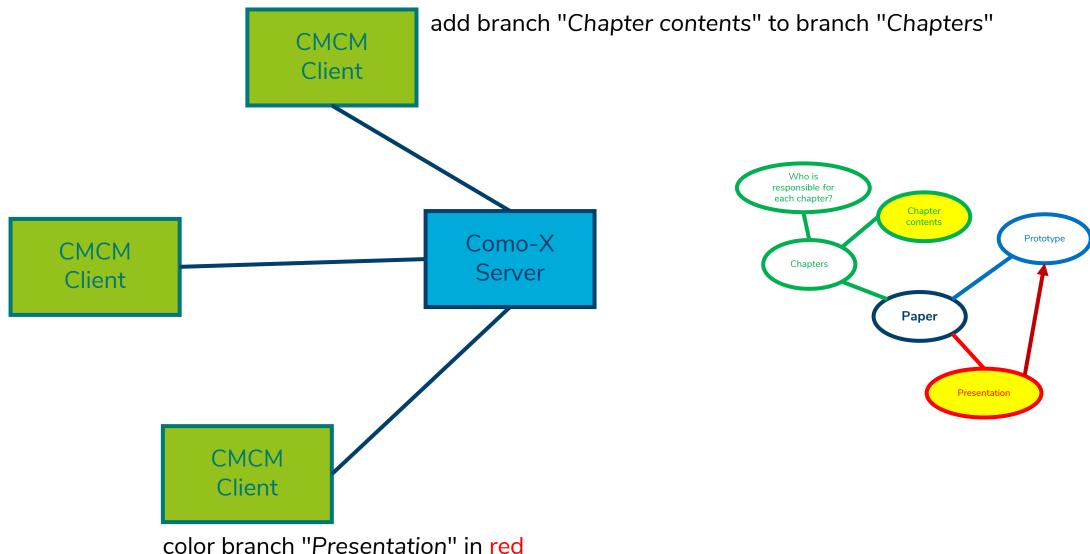
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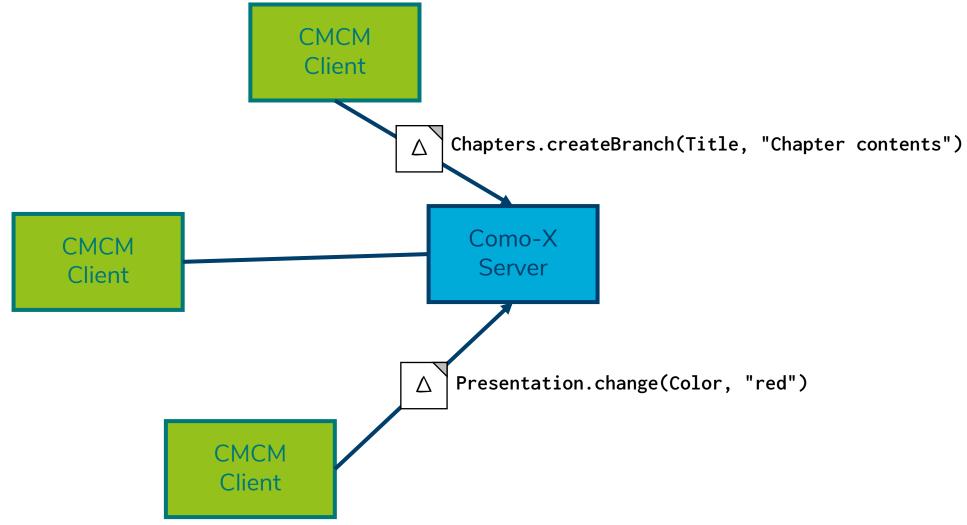


### CMCM – Difference Language (Example)



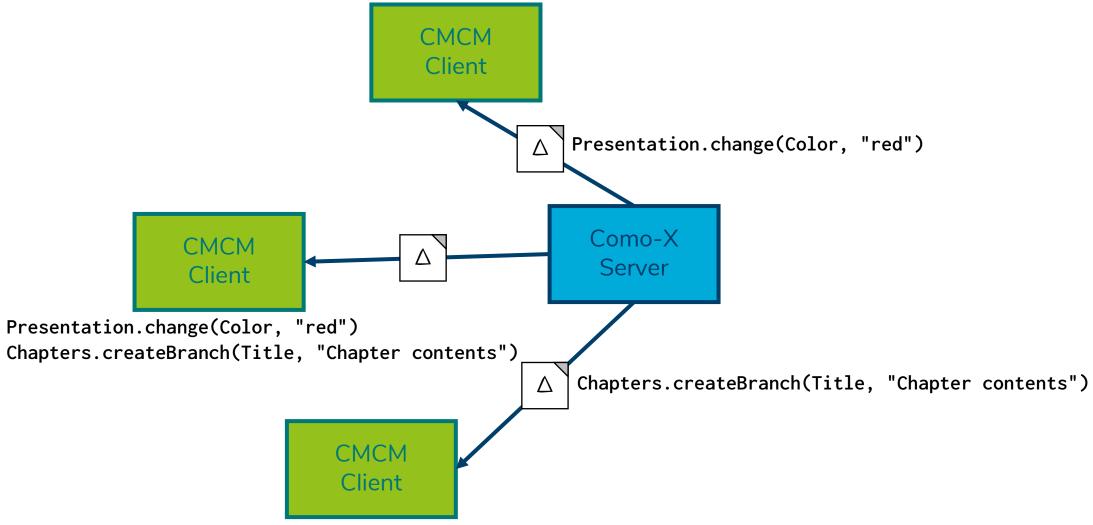


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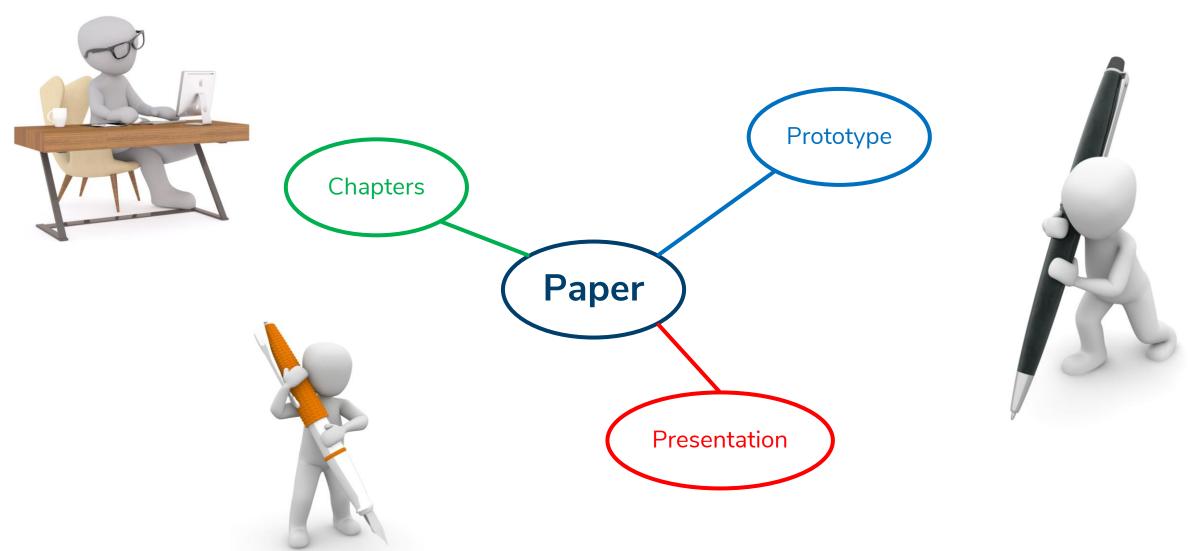




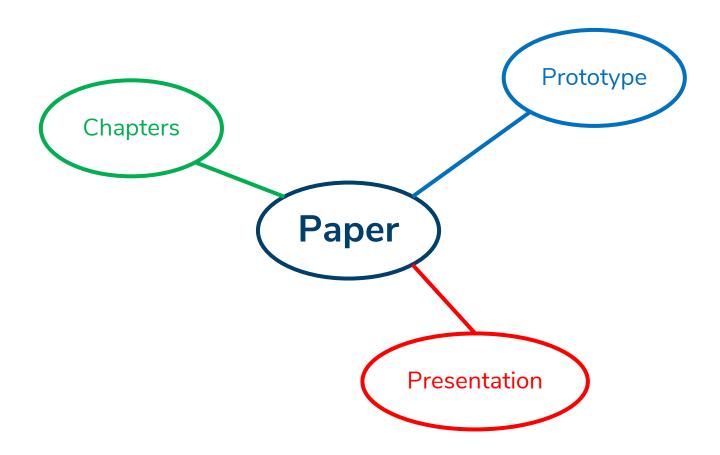
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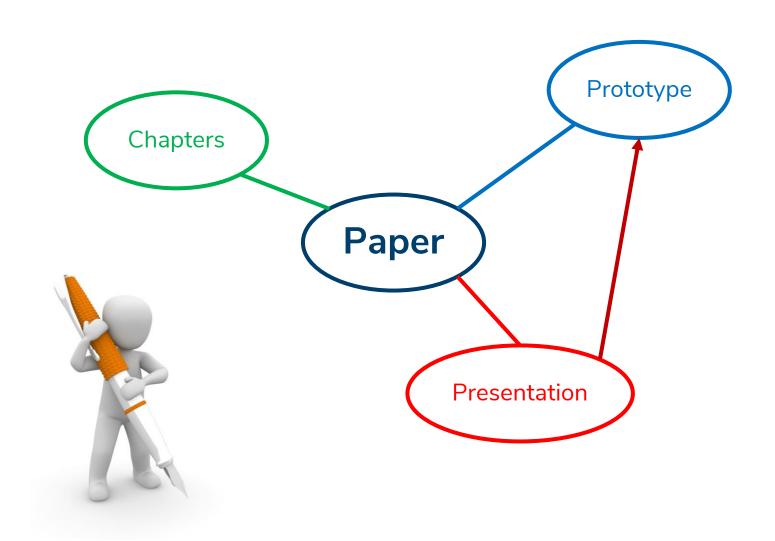




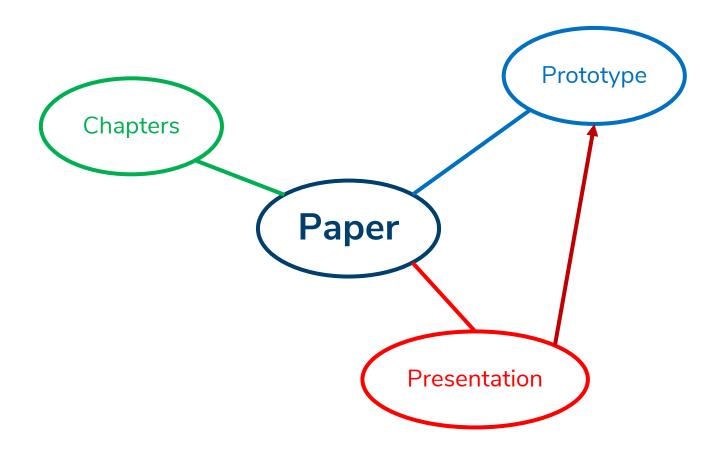




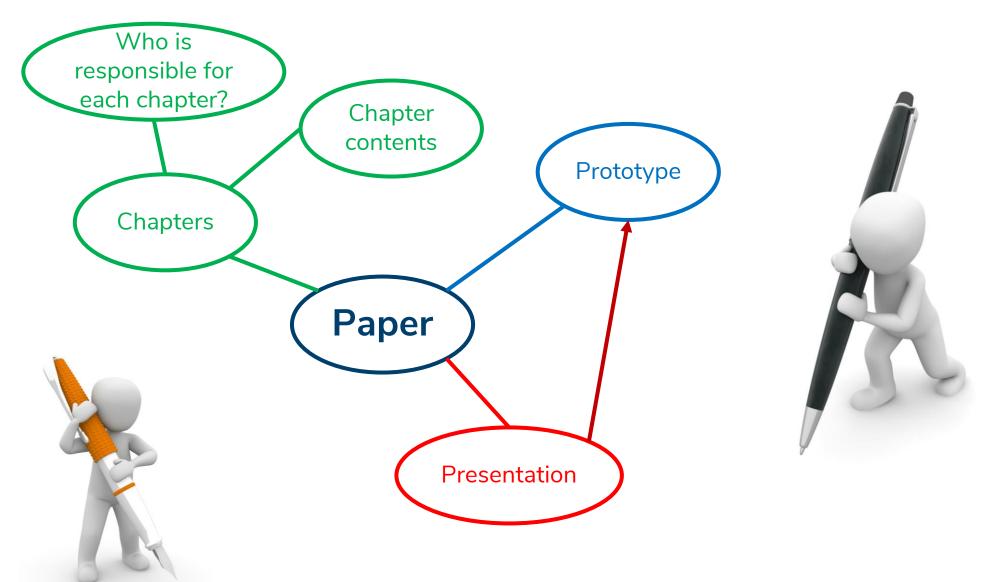




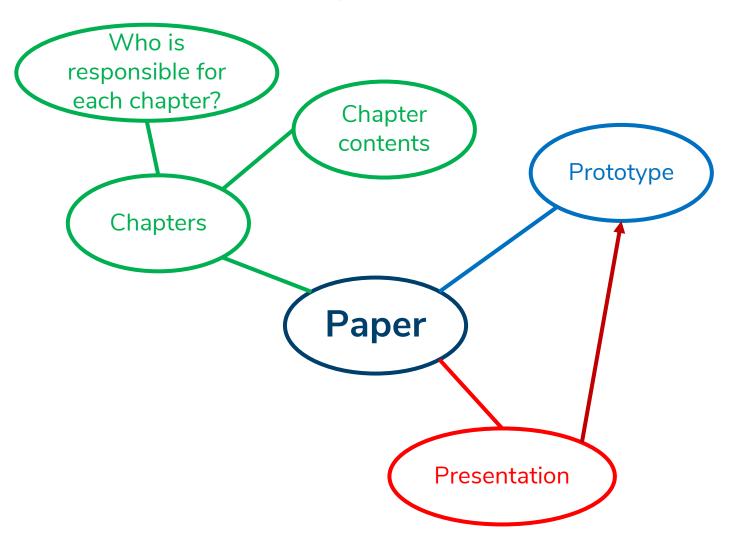




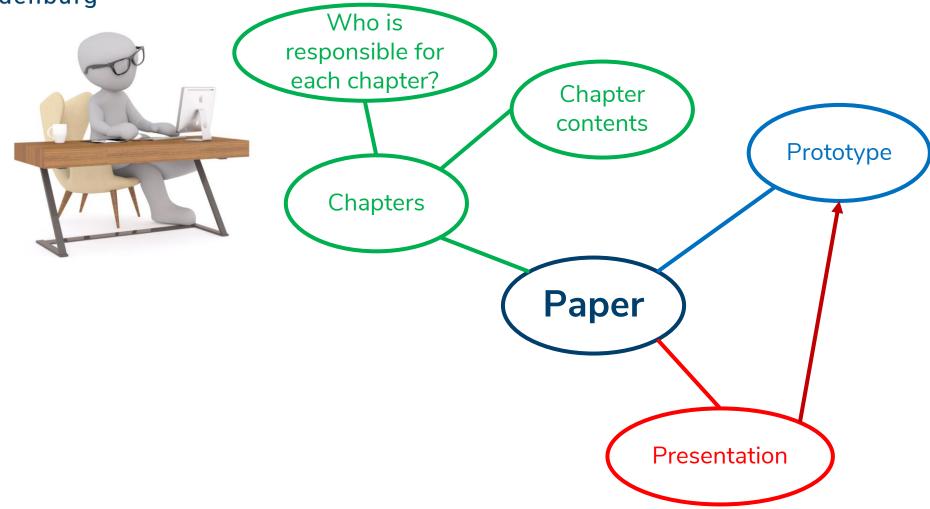














#### Conclusion

- Common concept for synchronous and asynchronous collaborative modeling
- Meta-models compatible with OMG Diagram Definition
- Efficient exchange of model deltas (△) based on Difference Language
  - differnces with regards to abstract syntax and diagram syntax
  - in practice: no conflicts
- Modeling-Language interchangeable
  - abstract syntax + diagram syntax: easy
  - concrete syntax (visualization): hard/easy
  - communication (deltas): easy
- https://uol.de/se?cmcm

