

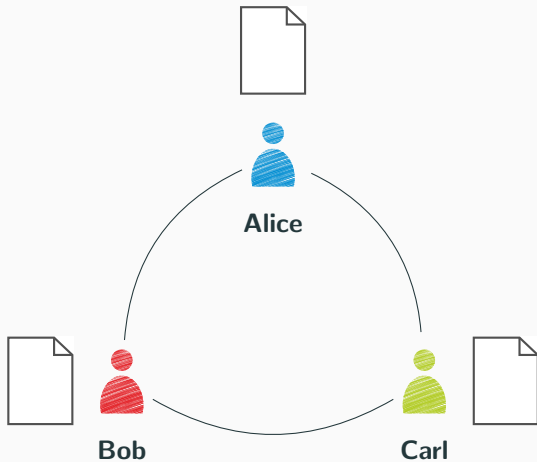
Efficient (re)naming in Conflict-free Replicated Data types (CRDTs)

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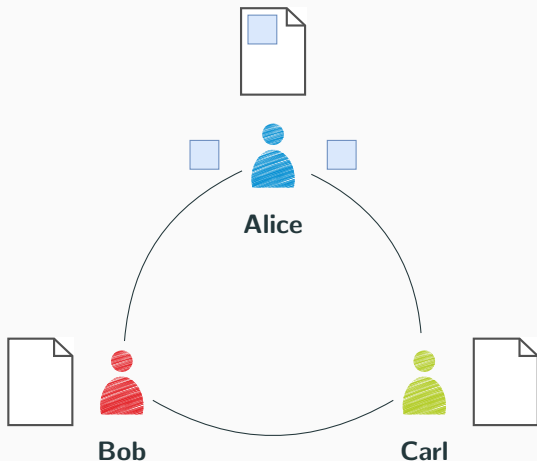
 University of Lorraine | *Inria* COAST team
Supervised by Gérald Oster and Olivier Perrin

Conflict-free Replicated Data types (CRDTs)



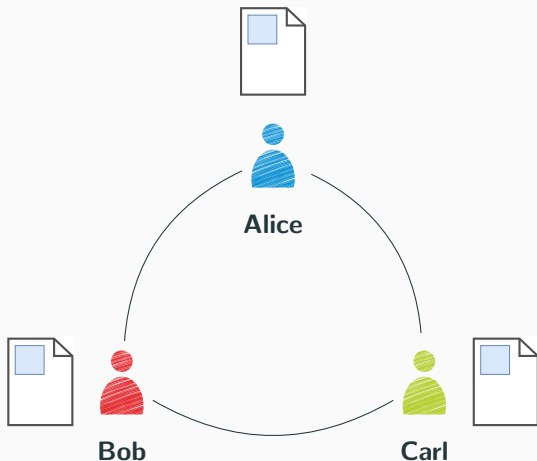
- Replicated data structure

Conflict-free Replicated Data types (CRDTs)



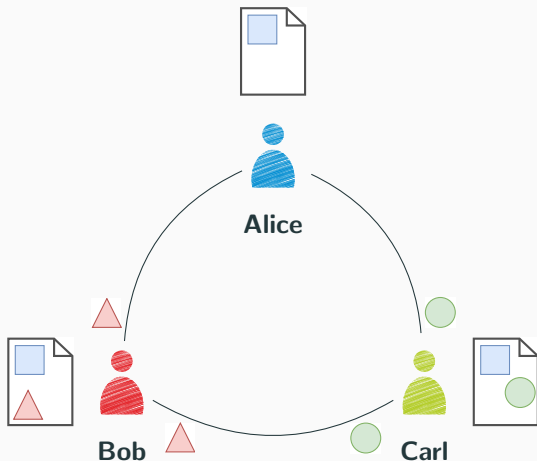
- Replicated data structure
- Updates performed without coordination

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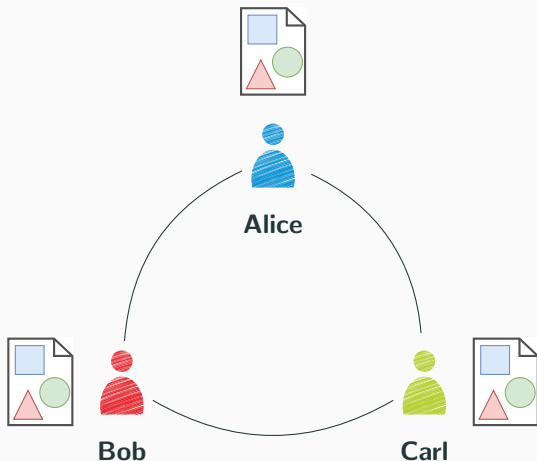
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- Attached to elements to handle concurrent updates
- Have to comply to several constraints

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Limits

- Unbounded size of identifiers
- Efficiency decreasing over time

Can we propose

- more efficient identifiers given several constraints ?
- mechanisms to rename identifiers ?

Next step

- Build taxonomy of constraints on identifiers and of current solutions

Thanks for your attention, any questions?

