

To be continued....

There are a number of future directions to explore:

## To be continued....

There are a number of future directions to explore:

Identify weaker conditions for well-formedness

## To be continued....

There are a number of future directions to explore:

Identify weaker conditions for well-formedness

“Efficiency”

## To be continued....

There are a number of future directions to explore:

- Identify weaker conditions for well-formedness

- “Efficiency”

- Subscriptions are hard to determine

## To be continued....

There are a number of future directions to explore:

- Identify weaker conditions for well-formedness

- “Efficiency”

- Subscriptions are hard to determine

- Relax some of our assumptions

## To be continued....

There are a number of future directions to explore:

- Identify weaker conditions for well-formedness

- “Efficiency”

- Subscriptions are hard to determine

- Relax some of our assumptions

  - Compensations

  - Unreliable propagation

## To be continued....

There are a number of future directions to explore:

- Identify weaker conditions for well-formedness

- “Efficiency”

- Subscriptions are hard to determine

- Relax some of our assumptions

  - Compensations

  - Unreliable propagation

  - Adversarial contexts

## To be continued....

There are a number of future directions to explore:

- Identify weaker conditions for well-formedness

- “Efficiency”

- Subscriptions are hard to determine

- Relax some of our assumptions

  - Compensations

  - Unreliable propagation

  - Adversarial contexts

- .....



*Thank you!*

## Summary

An interesting paradigm grounded on principles for local-first software

## Summary

An interesting paradigm grounded on principles for local-first software

We defined an operational semantics that captures the platform of Actyx AG

## Summary

An interesting paradigm grounded on principles for local-first software

We defined an operational semantics that captures the platform of Actyx AG

We introduced behavioural types to specify and verify eventual consistency

## Summary

An interesting paradigm grounded on principles for local-first software

We defined an operational semantics that captures the platform of Actyx AG

We introduced behavioural types to specify and verify eventual consistency

The key idea is to trade consistency for availability: temporary inconsistency are tolerated provided that they can be resolved at some point