Linking Trust to Data Quality

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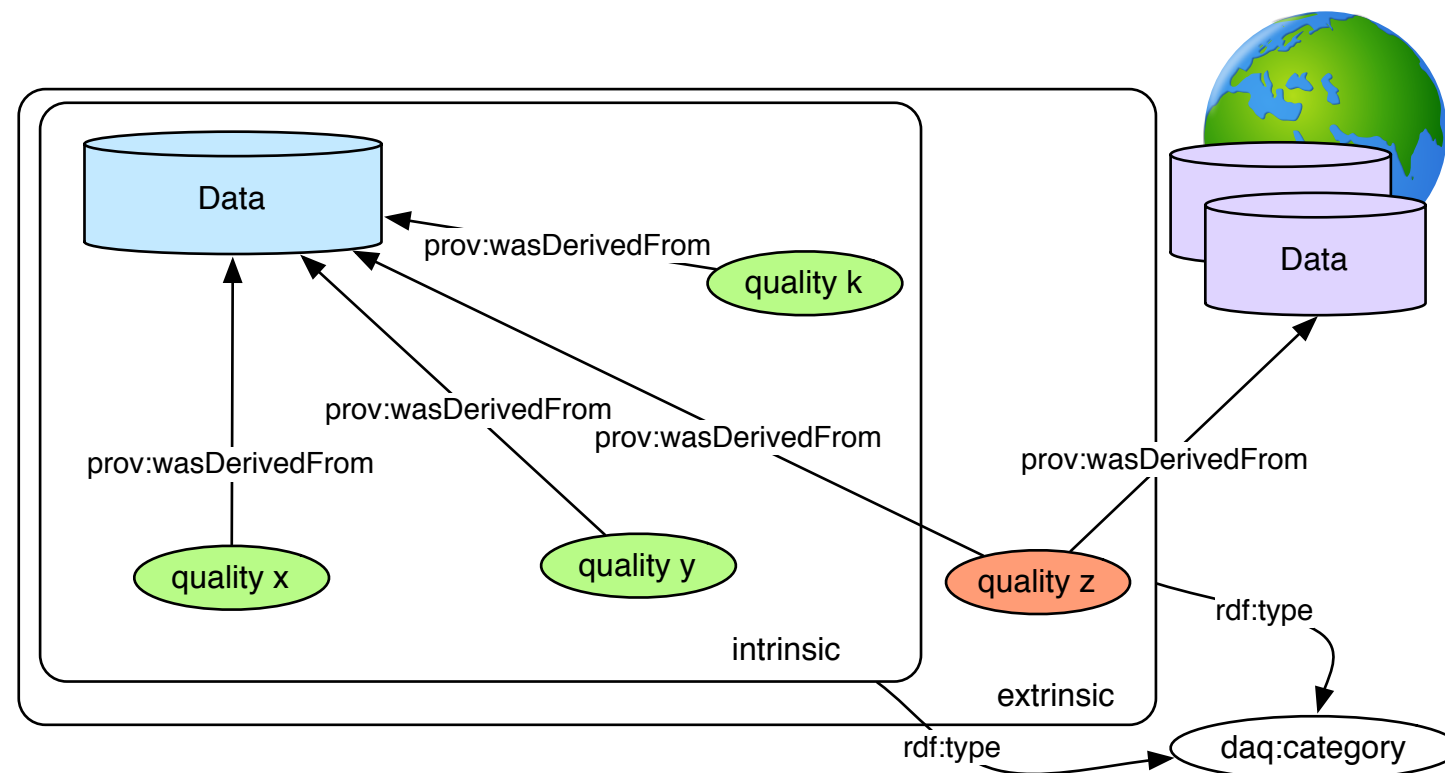
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Introduction

- Predicting and estimating trust* is important:

    - *From the user side: e.g., to automate and improve trust management.*

    - *From the producer side: e.g., to predict what are users going to trust* more (or less).*

- but difficult:

    - *trust* is a subjective and volatile belief.*

- Can we exploit data qualities to get better trust* estimations?

    *Our focus is on trust in data.
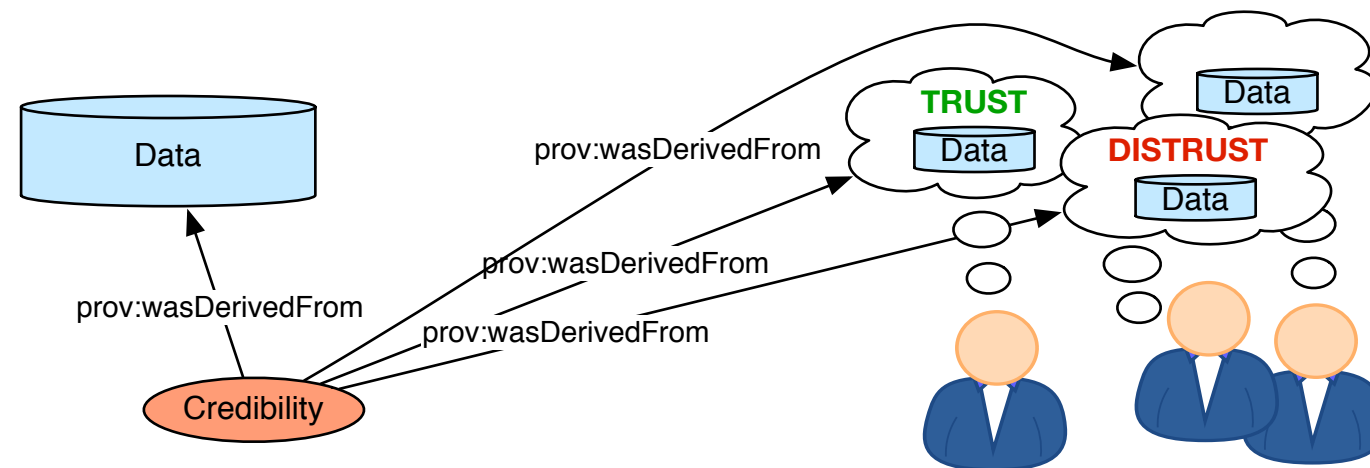
Intrinsic vs. Extrinsic Data Qualities

A novel data quality classification

- Using DQV and PROV

Linking Trust to Credibility

Now we can represent credibility (ISO 25010) as an aggregation of trust judgements.

The journey has just started

We are gathering data about these assessments, and we aim at:

- Identifying correlations and dependencies between data qualities.

- Identifying contextual elements related to specific extrinsic data qualities.

Thanks!

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