QualityTrails  
Data Quality Provenance as a Basis for Sensemaking

Problem: from data quality assessment to provenance

Challenges: from data quality provenance to sensemaking

1. Provenance from data cleansing operations
   - Re-tracing implicit information from data creation and transformation history.

2. Provenance from annotated data
   - Information from data sources and data cleansing operations.

3. Provenance from quality metrics
   - Logging computed quality metrics over time.

Outlook

Visualizing provenance information to provide insight in data quality assessment. Letting analysts hypothesize on the data.

Generating multivariate charts from continuous quality metrics. Extending these charts by annotations as guiding-points to log development over time.

Developing data quality control prototype to aid the user in his/her sensemaking task by visually & textually propagating provenance.