

Colectica 5

A New Generation of Open Metadata Tools



Colectica Overview

Standards-based metadata management

Survey design

Data documentation

Data lifecycle documentation

The Colectica Platform

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Colectica Designer

- Create, ingest, manage, and edit metadata
- Usable DDI 3 for end-users

Colectica Repository

- Centralized, authoritative, metadata store built on DDI 3, ISO 11179, and Web Service standards

Colectica Portal

- Search and browse metadata from Colectica Repository

The Colectica Platform

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Colectica SDK

- Allows programmers to work with DDI 3 and interact with Colectica Repository

Colectica Toolkit

- Command line utilities to perform specific tasks

New in Colectica 5

1. Aggregate data
2. Surveys and data collection
3. Eurostat data quality reporting
4. DDI 3.2
5. Translatable user interface
6. Addins



Aggregate Data

Microdata

Case ID	Gender	Married	Has Car
1	M	Yes	Yes
2	M	Yes	No
3	M	No	Yes
4	M	No	No
5	F	Yes	Yes
6	F	Yes	No
7	F	No	Yes
8	F	No	No

Aggregate Data

Dimensions			Measure
Gender	Is Married	Has Car	Count()
M	Yes	Yes	15
M	Yes	No	12
M	No	Yes	20
M	No	No	5
F	Yes	Yes	16
F	Yes	No	13
F	No	Yes	22
F	No	No	6

Footnotes

Aggregate Data (NCubes)

- Two approaches
 - ▣ Describe an existing aggregate dataset
 - ▣ Create an aggregate dataset from microdata
 - Automatically link back to microdata

Presentation of Cubes

Normal

Gender	Is Married	Count()
M	Yes	27
M	No	25
F	Yes	29
F	No	28

Tabular

	Married	Not Married
M	27	25
F	29	28

Previewing Cubes in Colectica 5

Tabular

Flat

Tabular

Gender

Marital Status

Employed

Column

Row

Column

☐ Show dimension name

☐ Show dimension label

☐ Show dimension name

☐ Show dimension label

☐ Show dimension name

☒ Show dimension label

		Male		Female	
Employed		Yes	No	Yes	No
Married	Mean Age	Mean Age	Mean Age	Mean Age	Mean Age
Single	Mean Age	Mean Age	Mean Age	Mean Age	Mean Age
Divorced	Mean Age	Mean Age	Mean Age	Mean Age	Mean Age

Previewing Cubes in Colectica 5

Flat

Flat		Tabular	
Gender	Marital Status	Employed	Mean Age
Male	Married	Yes	<i>Average</i>
Male	Married	No	<i>Average</i>
Male	Single	Yes	<i>Average</i>
Male	Single	No	<i>Average</i>
Male	Divorced	Yes	<i>Average</i>
Male	Divorced	No	<i>Average</i>
Female	Married	Yes	<i>Average</i>
Female	Married	No	<i>Average</i>
Female	Single	Yes	<i>Average</i>
Female	Single	No	<i>Average</i>
Female	Divorced	Yes	<i>Average</i>
Female	Divorced	No	<i>Average</i>

Surveys and Data Collection

New Question Types

Surveys with Data Flows

DDI Parameters and Bindings

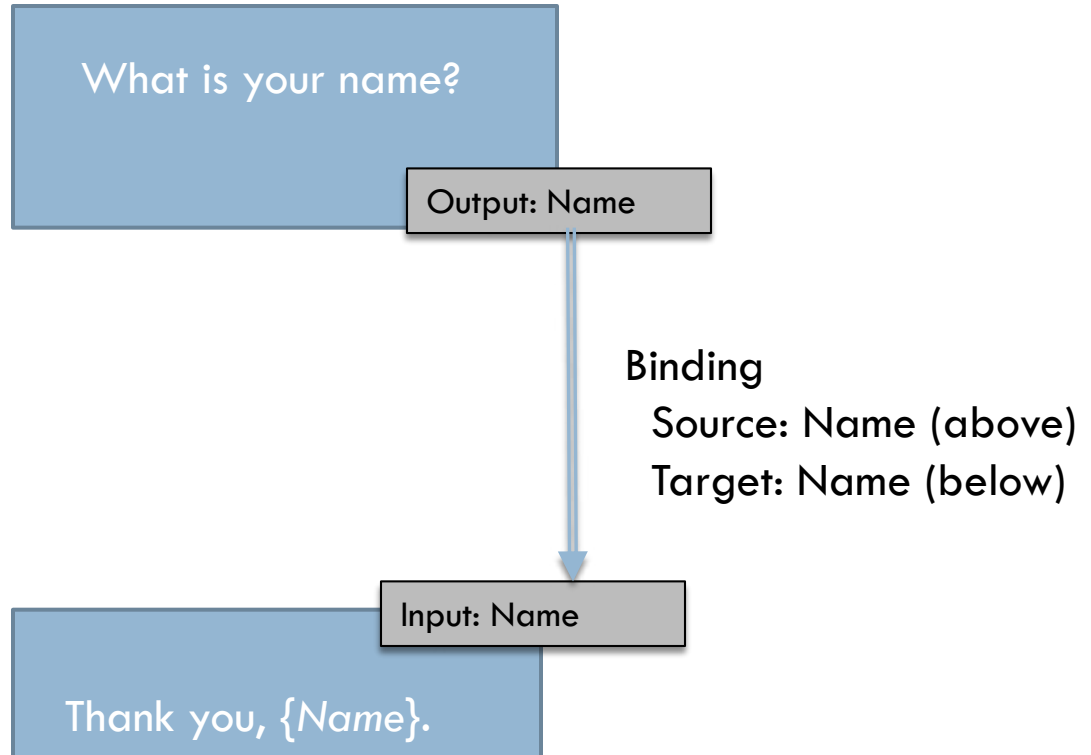
New Question Types

- Question Grids
 - ▣ Dynamic Rosters or Predetermined
 - ▣ Rankings
 - ▣ Distributions
- Question Blocks
- Other – Specify (AttachmentLocation)
- Scales

Surveys with Data Flows

1. What is your name? Jeremy.
2. How did you get to EDDI?
 - ☐ Plane
 - ☐ Train
 - ☐ Automobile
3. Thanks for taking the survey, *Jeremy*.

DDI Parameters and Bindings

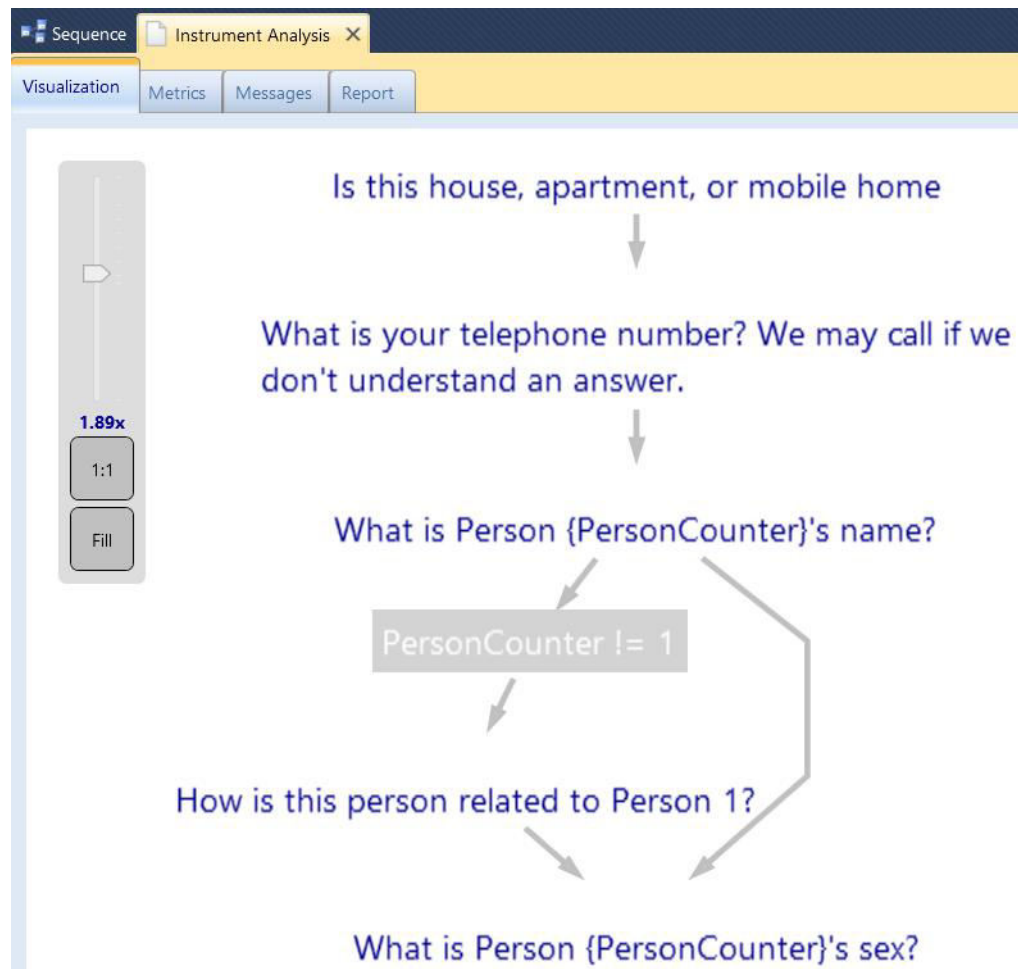


Survey Visualizations



- Live question preview
- Flowcharts

Flowchart Visualization



Data Collection System Integration

- Deep integration with data collection systems
 - SPSS Dimensions
 - Blaise
 - CASES
 - CSPro
 - REDCap
 - QueXML
 - LimeSurvey
 - More...



Eurostat Quality Reporting

Eurostat Data Quality Reporting



- DDI 3.2 QualityStatements
- Export Eurostat-compliant SDMX reporting formats



DDI 3.2

Colectica and DDI 3.2



- Support DDI 3.1 and DDI 3.2 simultaneously
- Import and export both versions
 - ▣ (DDI 2 and other formats, too)

DDI 3.2 Advantages



- ❑ Improved packaging for Web Services
- ❑ The simple things are simple
- ❑ Data flows for surveys/data collection instruments
- ❑ Improved semantics for modeling data
- ❑ Quality statements

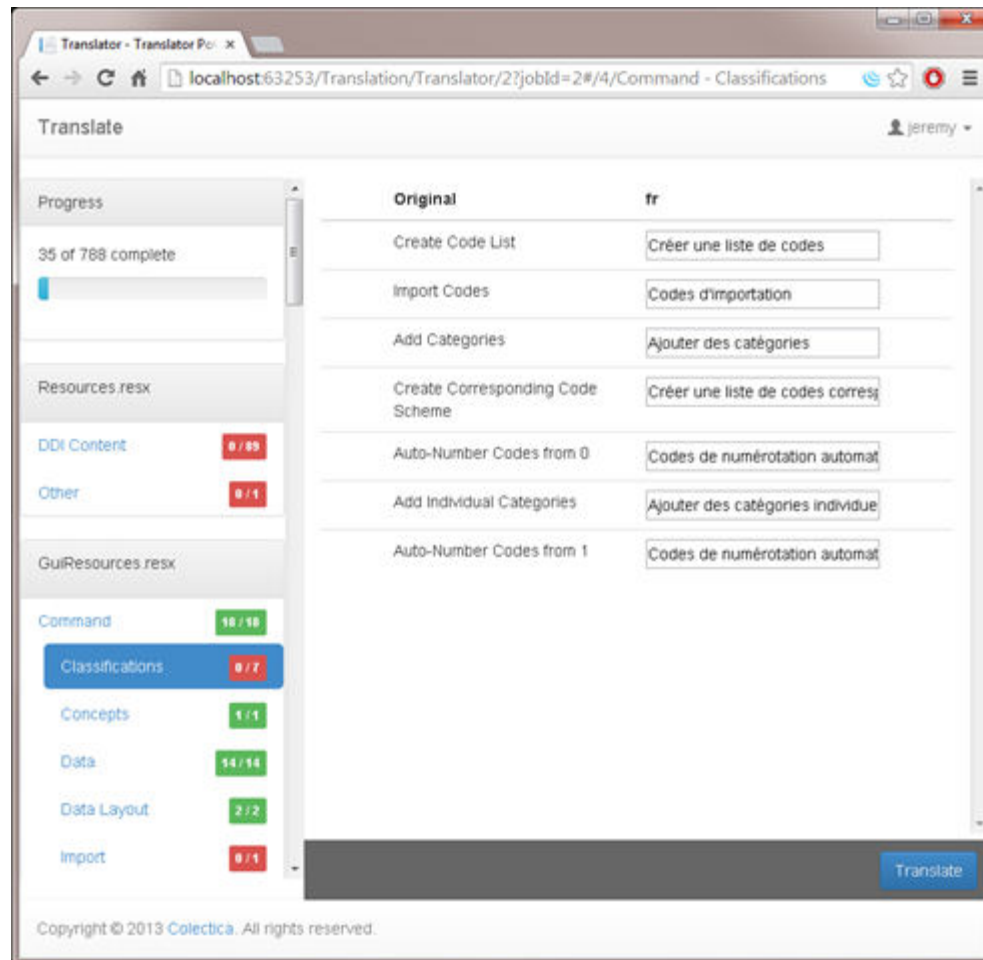


Translatable User Interface

Translatable User Interface

- 750+ pieces of text
- Until now, all of this is English-only
- Solution: User-driven translation

Translator Web Application



Translator Web Application

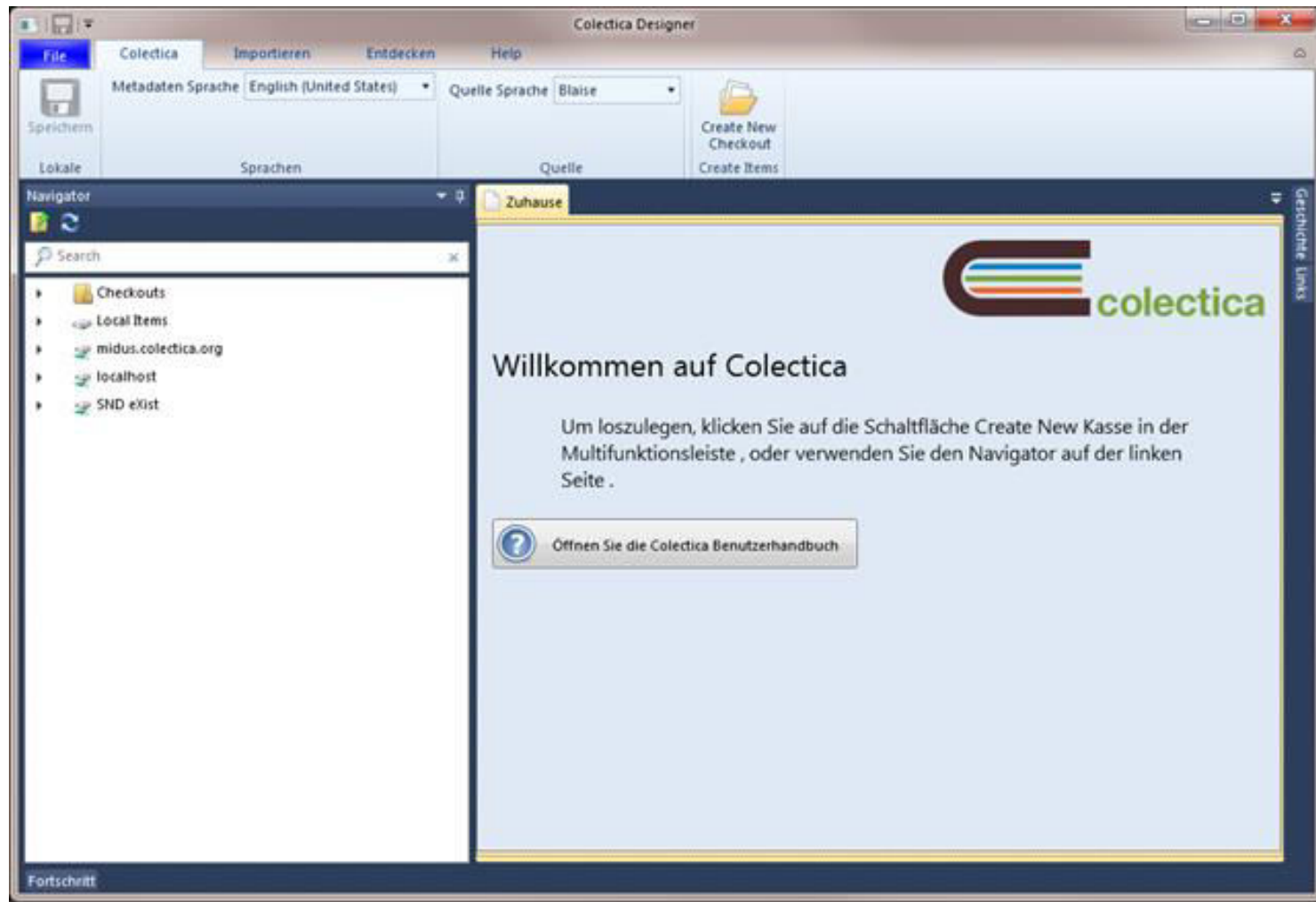
Translations

Language	Progress
fr	<div></div>
de	<div></div>
da	<div></div>
se	<div></div>

New Translation

Submit

Translated User Interface





Addins

Colectica Addins



- Customize Colectica's appearance and behavior
- Add new functionality

Colectica Addins



<https://github.com/Colectica/ColecticaSampleAddins>



Availability

Colectica 5 Availability

- After official DDI 3.2 approval

See More



- Stop by our Poster Session for more information and demonstrations

Thank you

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