



Colectica for Excel: Increasing Data Accessibility Using Open Standards

Book1 - Microsoft Excel

File Home Insert Page Layout Formulas Data Data Document Data Document Review View DataUp Load Test Team

Get External Data From SPSS From Stata From SPSS From Stata Refresh All Connections Sort Filter Clear Reapply Text to Columns Remove Duplicates Outline

Dataset

Variable

Codes

Catgories?

	make	price	mpg	rep78	headroom	trunk	weight	length	turn	displacem	gear_ratio	foreign
1	AMC Conc	4099	22	3	2.5	11	2930	186	40	121	3.58	0
2	AMC Pace	4749	17	3	3	11	3350	173	40	258	2.53	0
3	AMC Spirit	3799	22		3	12	2640	168	35	121	3.08	0
4	Buick Cent	4816	20	3	4.5	16	3250	196	40	196	2.93	0
5	Buick Elec	7827	15	4	4	20	4080	222	43	350	2.41	0
6	Buick LeSab	5788	18	3	4	21	3670	218	43	231	2.73	0
7	Buick Opel	4453	26		3	10	2230	170	34		2.87	0
8	Buick Regal	5189	20	3	2	16	3280	200	42		2.93	0
9	Buick Riviera	10372	16	3	3.5	17	3880	207	43	231	2.53	0
10	Buick Skylark	4082	19	3	3.5	13	3400	200	42	231	3.08	0
11	Cad. Deville	11385	14	3	4	20	4330	221			2.28	0
12	Cad. Eldorado	14500	14	2	3.5	16	3900	204			2.19	0
13	Cad. Seville	15906	21	3	3	13	4290	204	45	350	2.24	0
14	Chev. Chevelle	3299	29	3	2.5	9	2110	163	34	231	2.93	0
15	Chev. Impala	5705	16	4	4	20	3690	212	43	250	2.56	0
16	Chev. Malibu	4504	22	3	3.5	17	3180	193	31	200	2.73	0

- Colectica for Excel uses DDI-Lifecycle (version 3.1)
- Documents and identifies:
 - ▣ Datasets (PhysicalInstance)
 - ▣ Variables
 - ▣ Code lists (CodeScheme)
 - ▣ Categories
- Add more metadata than Excel supports on its own

Colectica for Excel and DDI-L

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- Enables reuse of metadata through unique identification
 - ▣ Variables can share the same code list
- Records audit trail through versioning



5 Colectica for Excel Features

Document Datasets

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The screenshot shows a Microsoft Excel window titled 'Book1 - Microsoft Excel'. The 'Data Documentation' tab is active in the ribbon, displaying options like 'Document Workbook', 'Dataset Information', 'Variable Editor', 'Variable Details', 'Code List', 'Options', 'Save as DDI Documentation', 'Export', 'Test', 'Show Metadata Sheet', and 'Debug'. The 'Dataset Information' icon is highlighted. Below the ribbon, a table is visible with columns A through E. The data is as follows:

	A	B	C	D	E
1	ID	Age	Gender	Language	
2	1	30	1	1	
3	2	31	2	1	
4	3	30	1	1	
5	4	31	1	1	
6	5	30	2	2	
7	6	42	1	2	
8	7	40	1	3	
9	8	41	2	1	
10	9	42	2	1	
11	10	42	2	2	
12					
13					
14					
15					
16					
17					
18					
19					

Overlaid on the right side of the Excel window is a 'Dataset Details' dialog box. It contains a 'Refresh Documentation' button, a 'Title' field with the text 'Sample Study', a 'Subtitle' field, an 'Alternate Title' field, a 'Creator' field with the text 'Colectica', and a 'Publisher' field. The dialog box is outlined with a red border.



Document Variables

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H	I	J
length	turn	displacement
186	40	12
173	40	25
168	35	12
196	40	19
222	43	35
218	43	23
170	34	30
200	42	19
207	43	23
200	42	23
221	44	42
204	43	35
204	45	35
163	34	23
212	43	25
193	31	20
200	41	20
179	40	15
197	43	25

Variable Details

The turning circle of a vehicle is the size of the smallest circular turn (i.e. U-turn) that the vehicle is capable of making.

Data Type
Numeric

Type
Integer

Additivity
Stock

Minimum
1

Maximum
100



Record Custom Fields

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The screenshot shows a data entry interface. On the left, a table lists data with three columns. The first column contains row numbers (3, 2, 3, 0, 9, 7, 3, 6, 6). The second column contains values (34, 43, 31, 41, 40, 43, 35, 46, 46). The third column contains values (23, 25, 20, 20, 15, 25, 9, 31, 21). A red arrow points from the row number '7' to the 'Useful details' text input field in the 'Extra Information' section. The 'Response Unit' dropdown is set to 'Informant'. A 'Remove' link is visible next to the 'Extra Information' section. A plus icon is at the bottom of the section. The bottom status bar shows a grid icon, a 100% zoom level, and navigation controls.

3	34	23
2	43	25
3	31	20
0	41	20
9	40	15
7	43	25
3	35	9
6	46	31
6	46	21

Response Unit
Informant

Extra Information
Useful details

Remove

+

100%



Document Code Lists

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1
1
1
2

Data Type
Code

The participant's gender

Update Codes from Data

Use Existing Code List

Measurement Unit



Reuse Code Lists

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Variable Details

length

Label

Length (in.)

Description

Data Type

Code

Create New Code List Use Existing Code List



Import SPSS and Stata

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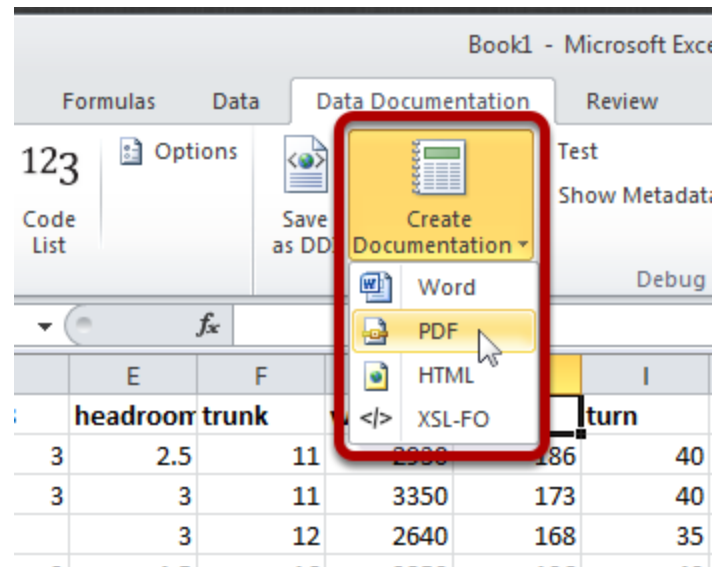
- Import SPSS and Stata
- Save labels and descriptions in DDI-L
- Import Code Lists
 - ▣ Harmonize code lists



Publish Documentation

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- Generate Codebooks from Excel
 - ▣ PDF, HTML, Word, XSL-FO
- Publish DDI 3.1 XML



It's Free

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<http://www.colectica.com/colecticaforexcel>



Colectica for Excel - vNext

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- ❑ Available now with Colectica 4.1
- ❑ Allow importing already existing code lists and variable descriptions
- ❑ Colectica for Excel SDK to allow programmatic generation of well-documented spreadsheets
- ❑ Ideas?





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Thank you

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