



# Colectica for Excel: Increasing Data Accessibility Using Open Standards



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## In This Talk

1. Brief Overview of DDI-L
2. Colectica for Excel Features
3. Demonstration
4. Future Plans

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 Properties Edit Links Sort Filter Clear Reapply Text to Columns Remove Duplicates Outline

Dataset

Variable

Codes

Catgories?

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

Ready

# DDI-Lifecycle

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- 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



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# Colectica for Excel Features

# Document Datasets

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The screenshot shows Microsoft Excel with a dataset in a worksheet. The 'Data Documentation' ribbon is active, and the 'Dataset Information' button is highlighted. A 'Dataset Details' dialog box is open, showing fields for Title, Subtitle, Alternate Title, Creator, and Publisher. The 'Refresh Documentation' button is also visible in the dialog.

	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					

**Dataset Details**

Refresh Documentation

Title  
Sample Study

Subtitle

Alternate Title

Creator  
Colectica

Publisher



# Document Variables

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H	I	J
length	turn	displac
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

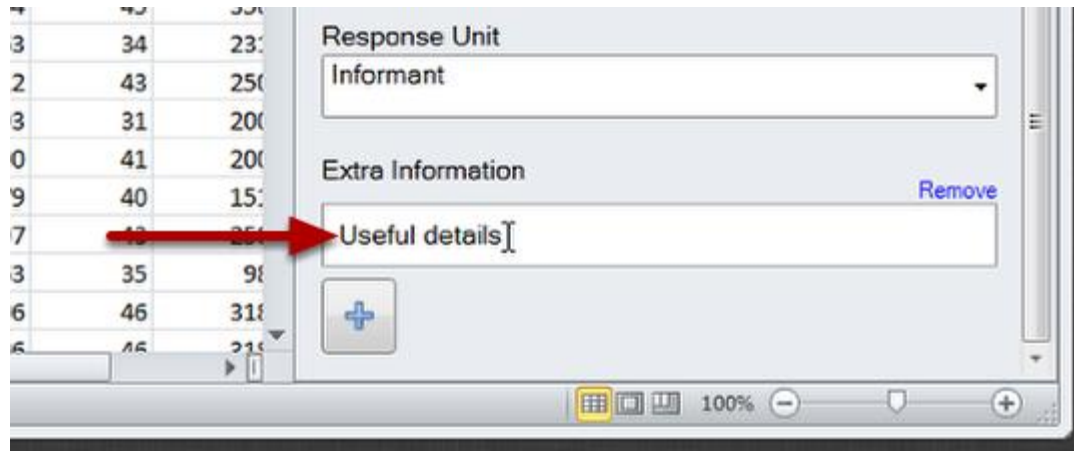
Maximum  
100





# Record Custom Fields

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# 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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The screenshot shows the SPSS Variable Details dialog box for a variable named 'length'. The dialog box is open over a data editor window. The data editor window shows a table with columns 'I' and 'J' and rows of data. The Variable Details dialog box has the following fields and options:

- length**
- Label**: Length (in.)
- Description**: (Empty text area)
- Data Type**: Code
- Create New Code List** (button)
- Use Existing Code List** (button, highlighted with a red box)

I	J
turn	displac
40	123
40	258
35	123
40	196
43	350
43	231
34	304
42	196
43	231
42	231
44	425
43	350
45	350
34	231
43	250



# Import SPSS and Stata

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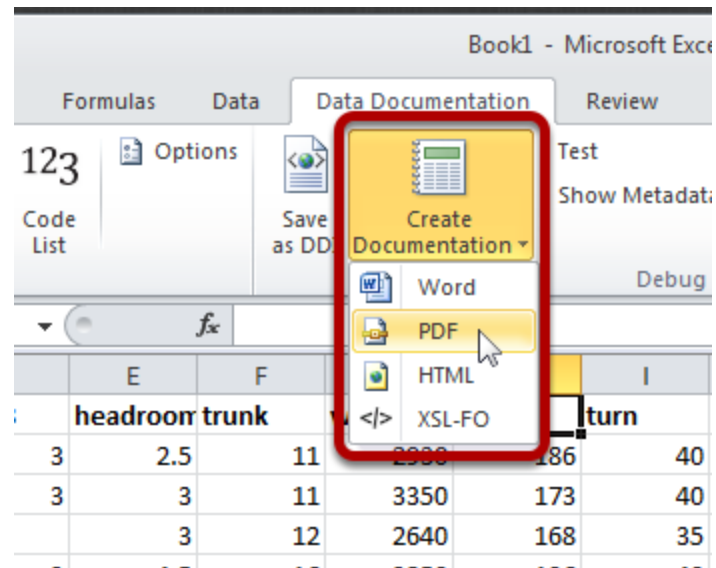
- Import SPSS and Stata
- Save labels and descriptions in DDI-L
- Import Code Lists
  - ▣ Harmonize code lists



# 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>



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# Demonstration

# 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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