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Conversion example II

THE WORD LIST: A BLAISE 5 CONVERSION CHALLENGE



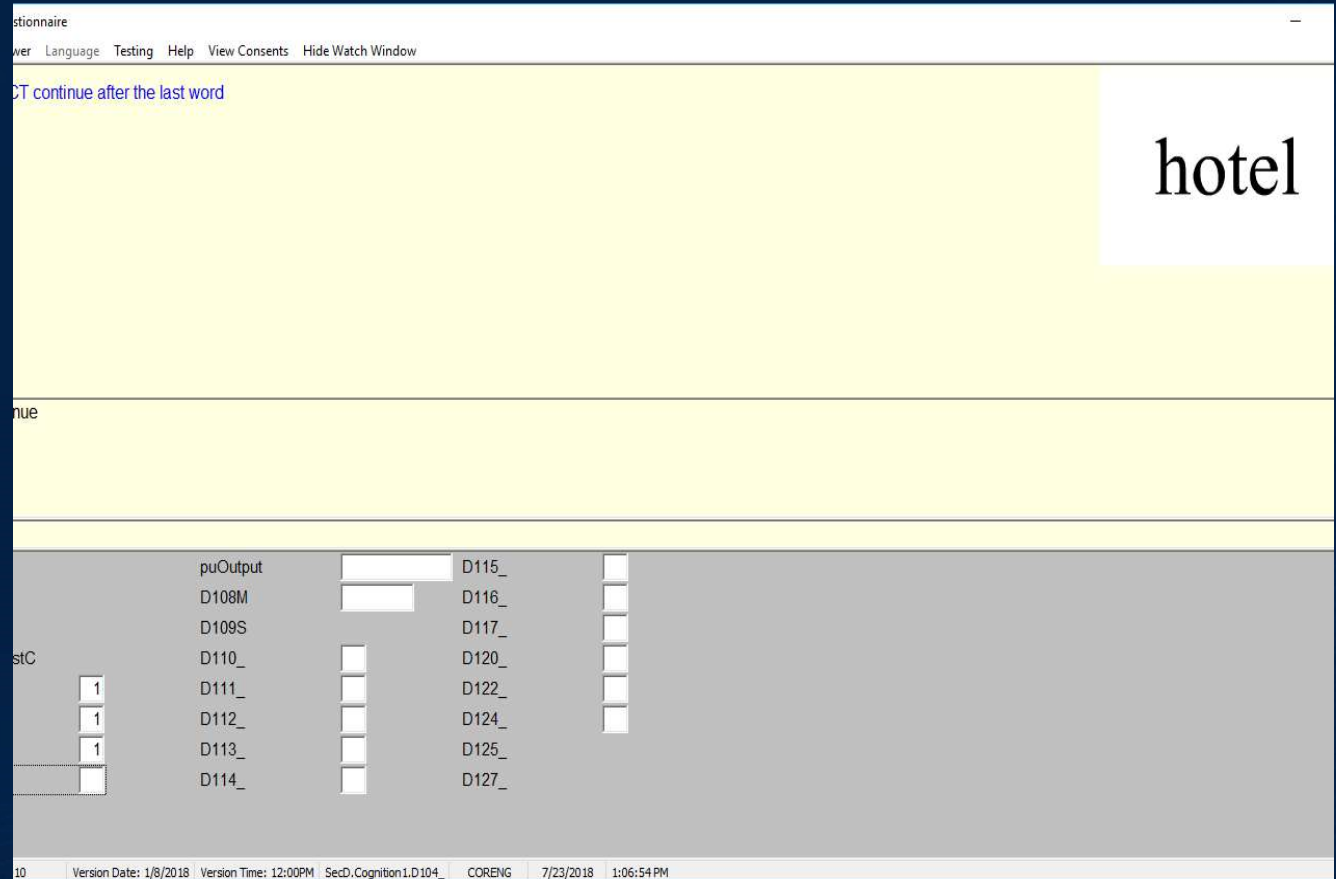
The Challenge

- Replicate Blaise 4.8 functionality in Blaise 5 using only “out-of-the-box” features for the interviewer administered survey
 - MVC Custom Applications would take too long to develop and were still evolving
- Maintain the data structure



Blaise 4.8 Word List Display

- Accomplished through an AVI file





Blaise 4.8 Word List Recall

- Done using an API router
- Type the first letter of a word and press Enter to “select” it
- Ability to enter “Wrong Word” multiple times

Questionnaire

File Language Testing Help View Consents Hide Watch Window

Please tell me the words you can recall.

You have as much time as R wishes -- up to about 2 minutes

Type the first letter of first word. If R does not recall any more words, type 'Q' to quit and press [Enter]

BOOK
CHILD
GOLD
HOTEL
KING
MARKET
PAPER
RIVER
SKIN
TREE
X-WRONG WORD
Y-NONE REMEMBERED
U-REFUSED
QUIT

Info
R WISHES: PERMIT AS MUCH TIME AS R WISHES -- UP TO ABOUT 2 MINUTES. BEGIN TYPING LETTER OF FIRST WORD. IF R DOES NOT RECALL ANY MORE WORDS, TYPE 'Q' TO QUIT AND PRESS ENTER

of at most 255 characters

puOutput	
D108M	
D109S	
D110_	
D111_	
D112_	
D113_	
D114_	
D117_	
D120_	
D122_	
D124_	
D125_	
D127_	

10 | Version Date: 1/8/2018 | Version Time: 12:00PM | SecD.Cognition1.D106M.puOutput | CORENG | 7/23/2018 | 1:07:27 PM



Blaise 4.8 Word List Errors

- Errors appear in a pop-up window

The screenshot shows the Blaise 4.8 interface. At the top, it says "Not Responding)". Below that, there are menu options: "Page", "Testing", "Help", "View Consents", and "Hide Watch Window". The main area contains instructions: "e the words you can recall.", "ch time as R wishes -- up to about 2 minutes", and "of first word. If R does not recall any more words, type 'Q' to quit and press [Enter]".

A pop-up window is open, displaying a list of words: BOOK, CHILD, GOLD, HOTEL, KING, MARKET, PAPER, RIVER, SKIN, TREE, X-WRONG WORD, Y-NONE REMEMBERED, U-REFUSED (highlighted in blue), and QUIT. To the right of this list is a text input field containing the word "BOOK".

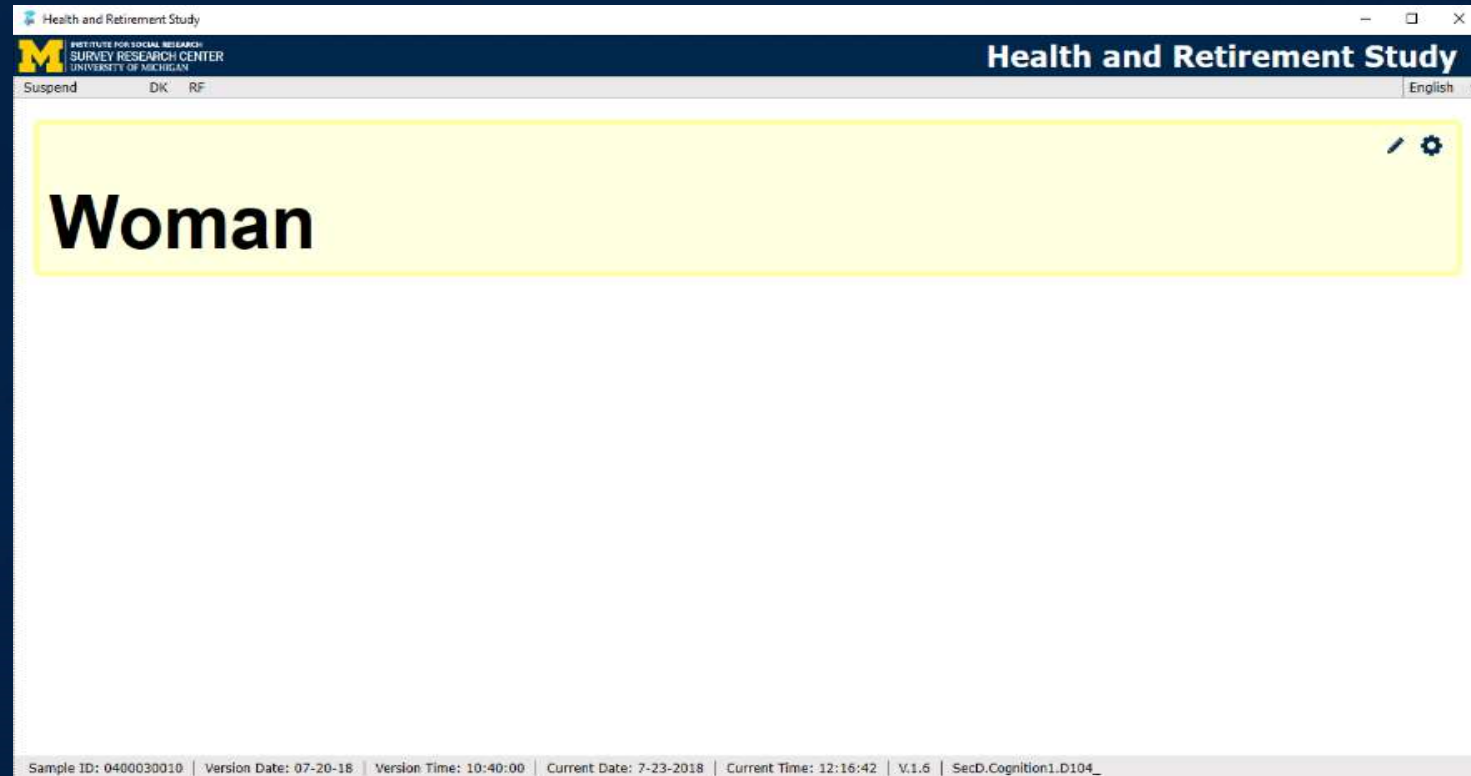
Below the pop-up window, there is an "Info" section with the text: "OWER: PERMIT AS MUCH TIME AS R WISHES -- UP TO ABOUT 2 MINUTES. BEGIN TYPING LETTER OF FIRST WORD. IF R DOES NOT RECALL ANY MORE WORDS, TYPE 'Q' TO QUIT AND PRESS ENTER".

At the bottom of the screen, there is a table with columns for "puOutput" and several rows labeled D108M, D109S, D110_, D111_, D112_, D113_, and D114_. Each row has a small input field next to it.

A "HRS Message" dialog box is open in the foreground, containing the text: "YOU ENTERED 'U-REFUSED' WITH OTHER CHOSEN WORDS, PLEASE VERIFY WHICH WORDS THE RESPONDENT REMEMBERED." and a "Close" button.

Blaise 5 Word List Display

- Created a template using timers and fills to display the word list in the survey rather than building an AVI/GIF file





Blaise 5 – Word List Display Template

- One timer runs for 2000 ms and resets as long as the last word in the list hasn't been reached
- The labels hold words and are filled using the expression “Field.GetCategoryByCode(1).Text”, where the number is the code for each word

The screenshot displays the Blaise 5 Survey Design software interface. The main window is titled "Template" and shows a configuration for a word list display. The left sidebar contains a tree view of the template structure, including "sppQuestionText", "prxQuestionText", "extQuestionText", "wordListGrid", and a series of "Cell" objects (Cell 0.0 to Cell 1.9) with associated "word" labels. The main workspace shows a preview of the word list display, with a "Field BANNER Text" and "Field Question Text" area. A "Text: RichText" dialog box is open, showing the expression "Field.GetCategoryByCode(1).Text" in the text field. The dialog also includes sections for "Constructs" (IF...THEN...ELSE...ENDIF), "Functions" (with a dropdown menu), and "Variables" (with dropdowns for "Field", "AnswerStatus", and "Empty"). The right sidebar shows the "Properties" and "Events" panels, with the "Text" property set to "Collapsed" and the "Visibility" property set to "Collapsed".

Blaise 5 Word List Recall

- Use a drop down to replicate the ability to type the first letter to select a word
- “Wrong Word” can be entered multiple times
- Specialized template replicates the “Available”/”Selected” appearance from Blaise 4.8

Health and Retirement Study

Suspend DK RF English

Now please tell me the words you can recall.

- PERMIT as much time as R wishes -- up to about 2 minutes.
- Begin typing letter of first word. If R does not recall any more words, type 'Q' to quit and press [Enter].

Select	Available Words	Selected Words
	Blood	Corner
	Corner	Engine
	Engine	X - Wrong word
	Girl	X - Wrong word
	House	
	Letter	
	Rock	
	Shoes	
	Valley	
	Woman	
	X - Wrong word	
	Y - None remembered	
	Quit	

Sample ID: 0400030010 | Version Date: 07-20-18 | Version Time: 10:40:00 | Current Date: 7-23-2018 | Current Time: 12:18:29 | V.1.6 | SecD.Cognition1.WordListRecall[6].D244_DisplayD106CAPI



Blaise 5 Word List Errors

- Use Signals/Checks for errors so that they appear in the DEP, not as a pop up

The screenshot shows a web browser window titled "Health and Retirement Study". The page content includes instructions for a word recall task:

Now please tell me the words you can recall.

- PERMIT as much time as R wishes -- up to about 2 minutes.
- Begin typing letter of first word. If R does not recall any more words, type 'Q' to quit and press [Enter].

Below the instructions are three columns:

Y - None remembered:	Available Words	Selected Words
	Blood	Corner
	Corner	Engine
	Engine	Rock
	Girl	Y - None remembered
	House	
	Letter	
	Rock	
	Shoes	
	Valley	
	Woman	
	X - Wrong word	
	Y - None remembered	
	Quit	

A red "Hard Error" message box is displayed at the bottom of the task area:

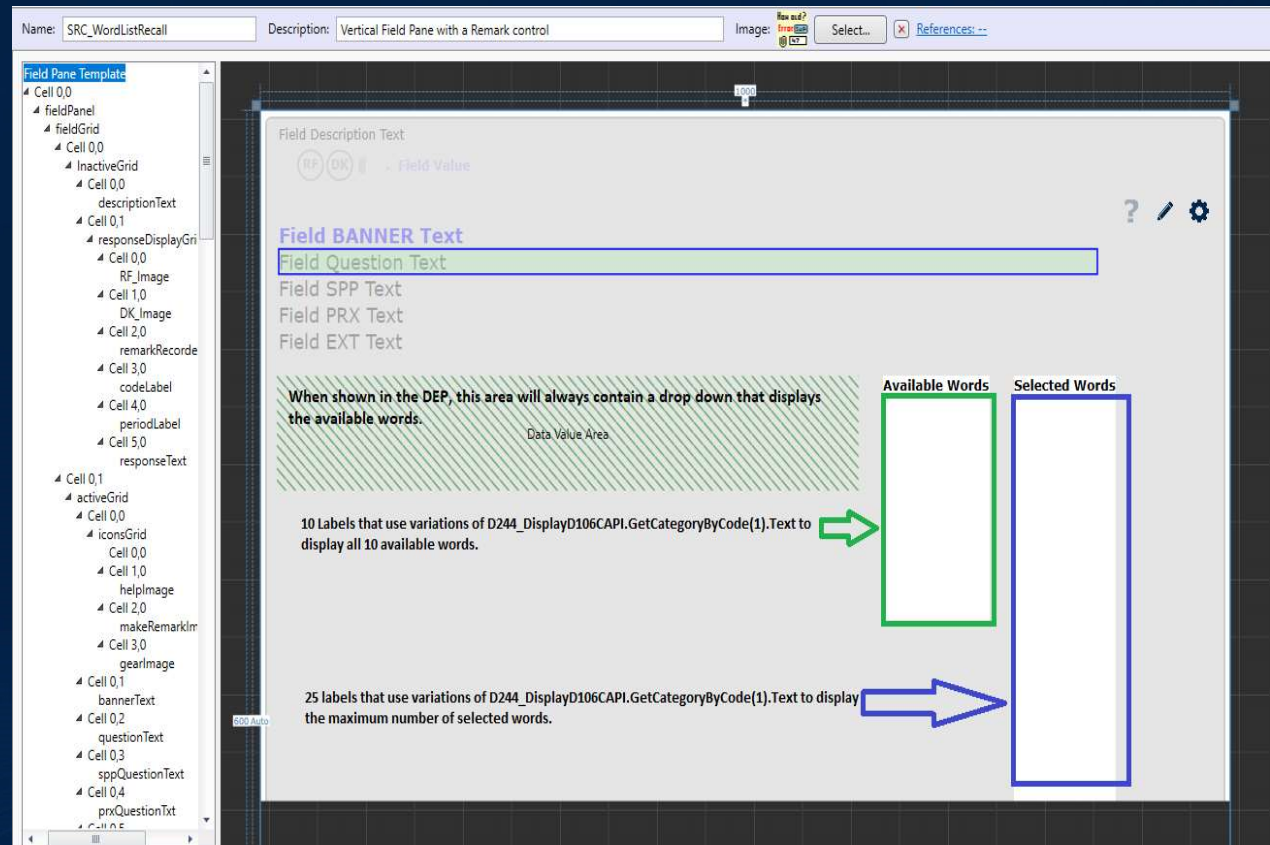
Hard Error
You entered 'Y-None remembered' with other chosen words. Please verify which words the respondent remembered.

The footer of the browser window contains the following text: Sample ID: 0400030010 | Version Date: 07-20-18 | Version Time: 10:40:00 | Current Date: 7-23-2018 | Current Time: 12:18:0 | V.1.6 | SecD.Cognition1.WordListRecall[4].D244_DisplayD106CAPI



Blaise 5 – Word List Recall Template

- A data value area that will contain the drop down
- 10 labels to display the 10 available words (clicking on a word from this list will also select it)
- 25 labels to display the maximum number of selected words (clicking on a word from this list will also de-select it)
 - ❖ Visibility statements are used to determine when each word is selected and should be shown





Blaise 5 – Word List Recall Template Visibility Setting

- If no words have been removed then it determines if the word has been selected
- If words have been removed it determines if the current word is one of the removed (if so, it is not shown)

```
IF RemovedWords.ValueAsText = '' THEN
  IF POSITION('-', +
    TOSTRING(D244_DisplayD106CAPI.GetCategoryByCode(8).Code) + '-',
    D334_.ValueAsText) > 0 THEN
    'Visible'
  ELSE
    'Collapsed'
ENDIF
ELSE
  IF POSITION('-', +
    TOSTRING(D244_DisplayD106CAPI.GetCategoryByCode(8).Code) + '-',
    D334_.ValueAsText) > 0 AND POSITION('-', +
    TOSTRING(D244_DisplayD106CAPI.GetCategoryByCode(8).Code) + '-',
    RemovedWords.ValueAsText) = 0 THEN
    'Visible'
  ELSE
    'Collapsed'
ENDIF
ENDIF
```



Design Considerations

- Look up vs Drop Down
 - Look ups were determined to be too slow for interviewers to select words as respondents recalled them
- Highly specialized templates
 - Due to the mapping of fields on the templates, two word list recall templates had to be created (one for each instance of recall)



Advantages of the Blaise 5 Design

- The word list no longer opens in a new screen/window for a more seamless survey experience
- Reduced maintenance requirements – rather than modify an alien procedure the entire word list can be maintained within the data model
- Utilizes traditional signals/checks rather than ones programmed in a custom application



... and now it's time for the 7th inning stretch!

