

A2J Author®

New User Training

July 7, 2016

Jessica Frank

Content Development Coordinator

CALI



Nested Repeat Loops



Agenda

- Repeat Loops in A2J & HotDocs – the problem
- The Solution
- Creating the A2J Guided Interview
- The HotDocs component
- Demo
- Questions



The Problem

- HotDocs Explicit Indexing: two-digit

Ex. Child first name TE [2]

Child city TE [2,1]

- A2J's Explicit Indexing: one indexing or counting variable at a time

Ex. Child first name TE [2]

Child City TE [21]



The Solution: A Work Around

A2J Counter Variable	Corresponding HotDocs Variable	Purpose
OutsideCount	ParentCtr NU	Tracks outside or parent loops
InsideCount	ChildCtr NU	Tracks inside or child loops
AbsoluteCount	ExpIndex NU	Unique index for each answer in the child loops
Array size NU	Array size NU	Maximum number of answers in any child loop
ICap NU	ICap NU	Total iterations in any given child loop



Child Loop Variables

Unlike most interviews, the HotDocs variables for the inner or child loops are not going to be used in the A2J Guided Interview.

Instead, we will create distinct A2J variables and HotDocs variables for the inner loops.

A HotDocs computation will parse and map the A2J variables to the corresponding HotDocs variables to simulate explicit indexing.



The A2J Component

2-Explanatory page ✕

Repeat Options:

Counting Variable:

Advanced Logic

Before:

After: SET [Array size NU] TO 10
SET [InsideCount] TO 1
SET [OutsideCount] TO 1
SET [A2] repeat trigger TF TO "true"

[XML](#) [Preview](#) [Close](#)



The A2J Component

3-Outside loop 1 ✕

Text audio:

[+ Upload...](#)

Learn More prompt:

Help style:

Help:

Help audio:

[+ Upload...](#)

Counting Variable:

Question Editor

[XML](#) [Preview](#) [Close](#)



The A2J Component

3-Outside loop 1

Destination: [4-Outside loop 2](#)

Repeat Options: Normal

Counting Variable:

Advanced Logic

Before:

After: SET [Add inside repeat TF] TO "true"
SET [AbsoluteCount] TO [OutsideCount]*[Array size NU] + 1

XML Preview Close

Recorded array size. This A2J Guided Interview only allows for 10 children. If you ha



The A2J Component

5-Inside loop

Question text

Text: Provide %[%Child name first TE#OutsideCount]%'s prior address for the last five years. Note: List only 1 address on this page. If %[%Child name first TE#OutsideCount]%' has other addresses for the last five years, click "List Another". Otherwise, click "Move On".

Text audio:

+ Upload...

Learn More prompt:

Help style: Text

Help:

Help audio:

+ Upload...

Counting Variable: AbsoluteCount

XML Preview Close



The A2J Component

5-Inside loop

Counting variable.

Advanced Logic

Before:

After:

```
IF [Add inside repeat TF#AbsoluteCount] = true AND [InsideCount]<=[Array size NU]
SET [InsideCount] TO [AbsoluteCount] - ([Array size NU]*[OutsideCount])+1
END IF
IF [Add inside repeat TF#AbsoluteCount] = true AND [InsideCount]<=[Array size NU]
SET [AbsoluteCount] TO [AbsoluteCount] + 1
END IF
IF [Add inside repeat TF#AbsoluteCount]=true AND [InsideCount]>[Array size NU]
SET [Icap NU#OutsideCount] to InsideCount
END IF
IF [Add inside repeat TF#AbsoluteCount] = true AND [InsideCount]>[Array size NU]
GOTO "7-Oops exceeded array size"
END IF
IF [Add inside repeat TF#AbsoluteCount] = false
SET [Icap NU#OutsideCount] TO InsideCount
END IF
```

XML Preview Close







The Advanced Section Broken Down

	Condition	Action	Explanation
1	[Add inside repeat TF#AbsoluteCount] = true AND InsideCount<= [Array size NU]	IF TRUE THEN SET InsideCount=[AbsoluteCount]-[Array size NU]*[OutsideCount]+1	Increments InsideCount if InsideCount is less than or equal to Array size NU.
2	[Add inside repeat TF#AbsoluteCount]=true AND [InsideCount]<=[Array size NU]	IF TRUE THEN SET AbsoluteCount=AbsoluteCount + 1	Increments AbsoluteCount if InsideCount is less than or equal to Array size NU
3	[Add inside repeatTF#AbsoluteCount]=true AND [InsideCount]>[Array size NU]	IF TRUE THEN SET ICap NU#OutsideCount=InsideCount	Sets the Iteration Cap counter (ICap NU) for this outer loop to the value of InsideCount if InsideCount is greater than Array size NU
4	[Add inside repeat TF#AbsoluteCount]=true AND [InsideCount]>[Array size NU]	IF TRUE THEN GOTO (2)1-Oops!	Moves to the error message if the user tries to enter an 11 th city.
5	[Add inside repeat TF#AbsoluteCount]=false	IF TRUE THEN SET ICap NU#OutsideCount= InsideCount	If Move On is selected, locks the Iteration cap (ICap NU) for the outer loop to the value of InsideCount, which is not incremented.

The Two Most Important Buttons

5-Inside loop

Number of buttons

 	<p>Label: <input type="text" value="List Another"/></p> <p>Variable Name: <input type="text" value="Add inside repeat TF"/></p> <p>Default value: <input type="text" value="true"/></p> <p>Destination: <input type="button" value="5-Inside loop"/></p> <p>Repeat Options: <input type="text" value="Normal"/></p> <p>Counting Variable: <input type="text"/></p>
 	<p>Label: <input type="text" value="Move On"/></p> <p>Variable Name: <input type="text" value="Add inside repeat TF"/></p> <p>Default value: <input type="text" value="false"/></p> <p>Destination: <input type="button" value="6-Add another"/></p> <p>Repeat Options: <input type="text" value="Normal"/></p> <p>Counting Variable: <input type="text"/></p>

List Another Button

Move On Button



The HotDocs Component

and	(
«Respondent name full TE»	(
Respondent.)

«IF ANSWERED(A2J repeat trigger TF) AND A2J repeat trigger TF» «Child loop variables parser CO»«END IF»

1. All minor children, including those born to or adopted by both parties.

Name	Birth Year	Minor primarily lives with:
------	------------	-----------------------------

«REPEAT Children Information»

«Child name full CO»	«Child birth year TE»	«IF ANSWERED(Minor lives with MC) AND Minor lives with MC = "Petitioner"»☒«ELSE»☐«END IF» Petitioner «IF ANSWERED(Minor lives with MC) AND Minor lives with MC = "Respondent"»☒«ELSE»☐«END IF» Respondent «IF ANSWERED(Minor lives with MC) AND Minor lives with MC = "Petitioner and Respondent"»☒«ELSE»☐«END IF» Both «IF ANSWERED(Minor lives with MC) AND Minor lives with MC = "Other"»☒«ELSE»☐«END IF» Other
----------------------	-----------------------	---

«END REPEAT»

2. Residences of the Child(ren).

Children's Names	Address	Starting MM/YY	Ending MM/Y Y
------------------	---------	----------------	---------------

«REPEAT Children Information»

«Child name first TE»	«Current address TE»	«Start Current TE»	Still lives here
-----------------------	----------------------	--------------------	------------------

«REPEAT Prior Residence»

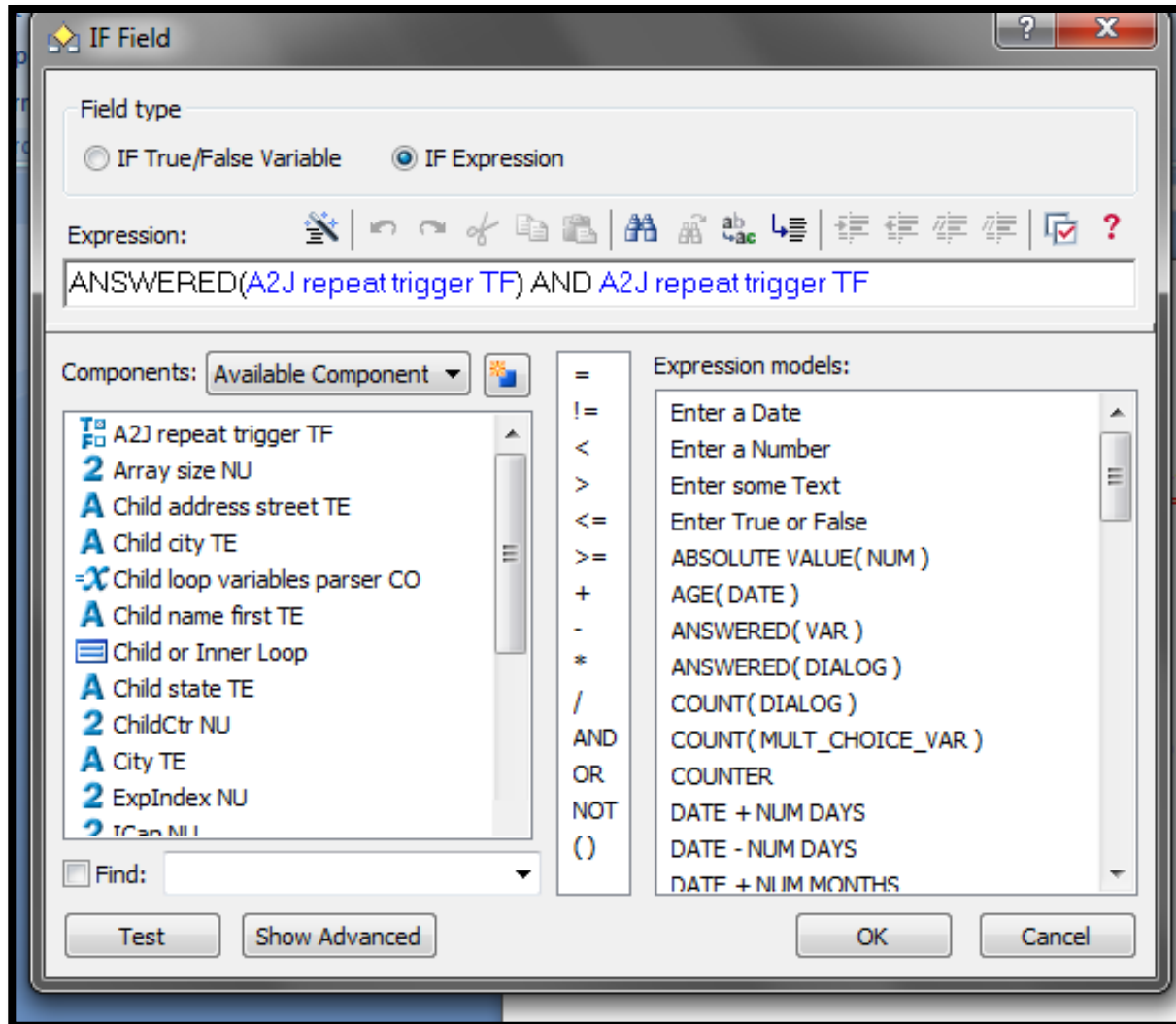
	«HD Child Prior Address TE»	«HD Start Date TE»	«HD End Date TE»
--	-----------------------------	--------------------	------------------

«END REPEAT»

«END REPEAT»



The HotDocs Component



The HotDocs Component

Variable Field

Variable type

Text True/False Personal Information

Number Multiple Choice

Date Computation

Variable: Child loop variables parser CO

Merge field properties

Format: Non-breaking

Field width: Align answer: Fill character:

Unanswered text:

Font:

Comment:

Child loop variables parser CO - Computation Editor [Text] - Nested Repeat Loops Example.cmp

Properties Locals Advanced Resource Used In Notes

Variable name: Child loop variables parser CO

Default format: Non-breaking

Script:

```
SET ParentCtr NU TO 1
SET ChildCtr NU TO 1
SET ExplIndex NU TO (ParentCtr NU * Array size NU) + 1
WHILE ParentCtr NU <= OutsideCount
  WHILE ChildCtr NU <= ICap NU[ParentCtr NU]
    SET HD Child Prior Address TE[ParentCtr NU, ChildCtr NU] TO Child prior address TE[ExplIndex NU]
    SET HD Start Date TE[ParentCtr NU, ChildCtr NU] TO Start date TE[ExplIndex NU]
    SET HD End Date TE[ParentCtr NU, ChildCtr NU] TO End date TE[ExplIndex NU]
    SET HD current address TE[ParentCtr NU, ChildCtr NU] TO Current address TE[ExplIndex NU]
    INCREMENT ExplIndex NU
    INCREMENT ChildCtr NU
  END WHILE
  INCREMENT ParentCtr NU
  SET ChildCtr NU TO 1
  SET ExplIndex NU TO (ParentCtr NU * Array size NU) + 1
END WHILE
```

Components: Available Components

- A2J repeat trigger TF
- 2 Array size NU
- Child age CO
- Child birth year TE
- Child current address TE
- Child loop variables parser CO
- Child name first TE
- Child name full CO
- Child name last TE

Find:

Instruction models:

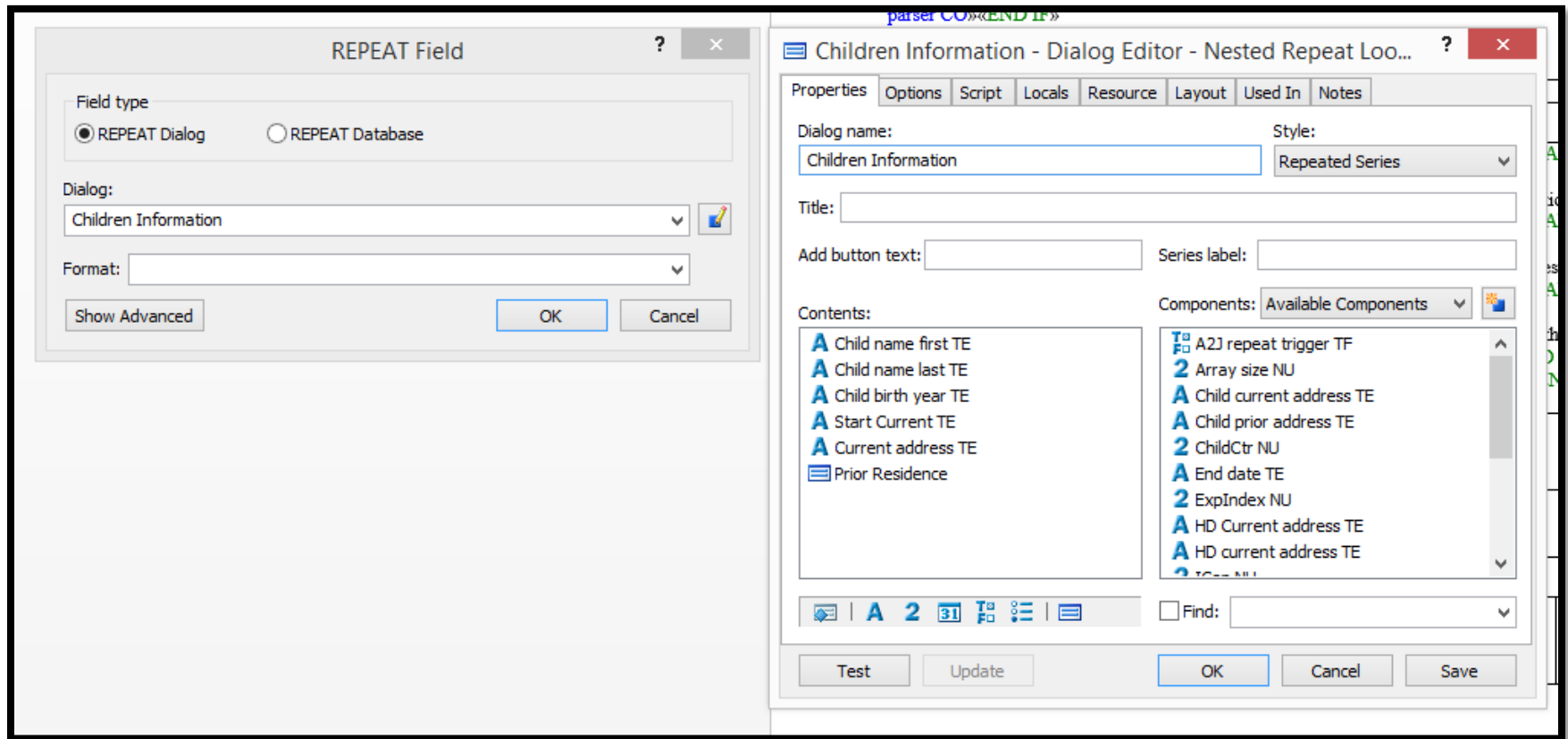
- ADD TEXT TO MULT_CHOICE_VAR
- ASCEND VAR
- ASK DATABASE

Expression models:

- Enter a Date
- Enter a Number
- Enter some Text
- Enter True or False
- ABSOLUTE VALUE(NUM)
- AGE(DATE)



The HotDocs Component



The HotDocs Component

The image displays two overlapping windows from the HotDocs software. The left window, titled "REPEAT Field", has a "Field type" section with "REPEAT Dialog" selected. Below it, the "Dialog:" dropdown is set to "Prior Residence" and the "Format:" dropdown is empty. The right window, titled "Prior Residence - Dialog Editor - Nested Repeat Loops Exa...", has tabs for "Properties", "Options", "Script", "Locals", "Resource", "Layout", "Used In", and "Notes". The "Properties" tab is active, showing "Dialog name:" as "Prior Residence" and "Style:" as "Repeated Series". The "Contents:" section lists three components: "A HD End Date TE", "A HD Start Date TE", and "A HD Child Prior Address TE". The "Components:" section lists a scrollable list of available components, including "A2J repeat trigger TF", "2 Array size NU", "A Child current address TE", "A Child prior address TE", "2 ChildCtr NU", "A End date TE", "2 ExpIndex NU", "A HD current address TE", and "A HD Current address TE". Both windows have "OK" and "Cancel" buttons at the bottom.



DEMO



Questions or Feedback?

Jessica Frank

Jessica@cali.org

312-906-5331

