



INSTITUTE FOR SOCIAL RESEARCH • SURVEY RESEARCH CENTER
SURVEY RESEARCH OPERATIONS
UNIVERSITY OF MICHIGAN

Blaise 5 Development at University of Michigan

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Introduction

- We started to use Blaise 5 at end of 2014
- Two projects were implemented
 - A Panel Study
 - A Mix Mode Study
 - Numerous Blaise 5 features were utilized



Introduction – Cont.



In this presentation we will present some unique features that we developed at Michigan

- Mix Mode
- Datamodel and Resource Database programming
- Data Entry APIs



Mix Mode

One of studies has two modes: SAQ and CATI.
We have made a big decision to use one
Instrument for both modes

1. MODE Field– pass into survey via URL or Dep parameter: Fields=mode:1&AssignMode=Always
2. MODES – It is a Blaise Setting key word.
 - SAQ - Allow Empty
 - CATI – Not allow empty



Mix Mode – Cont.

3. Four layout sets are used:

- Web (desktop/tablet), Small Mobile, Medium Mobile and CATI
- Small Mobile and Medium Mobile are very similar
- Web and Mobile layout sets are for SAQ web respondents. Some layout changes had to be made from web so the survey has friendly interface on mobile devices
- CATI is total different than the other three. It has the same look and feel as of Blaise 48.



Mix Mode – Cont.

Grid Questions on Desktop web and mobile

How important was each of the following in your decision about where in the country to move when you ^xS_AA15?

	Most important	Very important	Somewhat important	Not very important	Not at all important
Close to family/friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Location of a job or school you had lined up or of a good labor market	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Quality of life (e.g., good weather, low cost of living)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Close to a VA or military hospital	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

How important was each of the following in your decision about where you ^xS_AA15?

Close to family/friends

Most important

Very important

Somewhat important

Not very important

Not at all important

Location of a job or school you had lined up or of a good labor market

Most important



Mix Mode – Cont.

Grid question on CATI

Previous Next Quit

How important was each of the following when you decided where to move when you separated?

Close to family/friends – would you say that was most important, very, somewhat, not very, or not at all important in your decision

1. Most important
 2. Very
 3. Somewhat
 4. Not very
 5. Not at all important

Close to family	<input type="checkbox"/>
Location of job	<input type="checkbox"/>
Quality of life	<input type="checkbox"/>
VA hospital	<input type="checkbox"/>



Mix Mode – Cont.

4. DEP is used for CATI and Web browsers are used for SAQ
5. Two Dataentry settings are used.



Datamodel and Resource Database Programming

- The programming integration between the two can allow us to achieve a lot of special functions
- An example request from our client
 - When a case is resumed, it will need to jump to the beginning of previous stop section
 - If the mode is switched, then the data for that section should be deleted



Survey Resume Special Request

- Implementation:
 - The Blaise default is to jump to last active page
 - After go through many experiments, tests and even a pilot production phase.
 - We want to add a required page as the first page of the survey. On the page, there will be a button. When the button is clicked it will jump to the beginning of the last stopped section.
 - With that in mind
 - Two variable were created in the survey to assist the function:
 - ActiveFieldName
 - SuspendFieldName



Survey Resume - Code

```
Fields
RestartMain "^{ReEntryTextRef}"
           / "MainRestart"
           EntryDescr
           "<button
           text=\<green\>Resume
           background=LightGrey
           bordercolor=Black
           borderwidth=2
           width=100
           height=30
           onclick=\"{Action AssignField(RestartMain, 1); GotoField('^xRestartSec')^xNextSec}\">"
           : TSecReStart,noempty

Rules
ActiveFieldName.keep {ActiveFieldName is Assigned in the Resource database on the page load event
Meaning it is updated on every survey page
The purpose of this field is to help to get ActiveFieldNameSuspended}
ActiveFieldNameSuspended.keep
xGate.keep
IF xGate = 1 THEN {ActiveFieldNameSuspended is only assigned at the start of the survey sessions}
ActiveFieldNameSuspended := UPPERCASE(ActiveFieldName)
xGate := 2
ENDIF

RestartMain.keep
IF POSITION ('SECTION_', ActiveFieldNameSuspended) = 1
OR POSITION ('THANKYOU', ActiveFieldNameSuspended) =1 THEN
RestartmainFill {Procedure to get fill: xRestartSec xNextSec}
Restartmain
ENDIF
```



Survey Resume - Output

Welcome back to the STARRS LS Survey. When you click "Resume" you will pick up in the survey where you left off. If you left the survey in the middle of a section of questions, any previous answers you gave will be displayed for you to review as you continue.

Please click "Resume" to continue.

Resume

```
4 <button  
5 text=<green>Resume  
6 background=LightGrey  
7 bordercolor=Black  
8 borderwidth=2  
9 width=100  
10 height=30  
11 OnClick="{Action AssignField(RestartMain, 1); GotoField('SecARestart'); NextPage()}">
```



API challenges



I set myself challenges every time I work. Ideally, I approach everything as though it's the first time - with a beginner's mind and an amateur's love.

~Willem Dafoe



API Library

- Select All / Clear All (Checkbox)
- Mutually Exclusive Response (MER) with Clear All (Checkbox)
- Select Mutually Exclusive Response (MER)
- Other Specify
- Other Specify to clear out textbox
- Single text box with single radio button
- Multiple textboxes with single radio button
- Single textbox with multiple radio buttons
- Multiple dropdown menus with single radio button
- Multiple dropdown menus with multiple radio buttons
- Multiple dropdown menus with multiple radio buttons and with textbox
- Disable Radio Buttons If Mask Textbox Is Zero or Empty
- Masks



API Implementation

- Other Specify

```
Group GroupA_A07_Q
Fields
A_AA_ResnsNoOpt (A_A07_Q)
"^^A_A07 ^^Armyilitary won't give you the option to reenlist? <I1>(Check all
that apply) </I1>"
/"Army - Reasons they will not let you reenlist"
RTMod "OtherSpecifyRoleText = Other"
: Set OF (_1 "You have a health, disciplinary, or legal problem",
_2 "You have an adverse personnel flag, such as failing to meet physical fitness or weight standards",
_3 "The ^^Armyilitary is reducing the number of servicemembers in your MOS or eliminating the MOS ",
_4 "You have a low supervisor recommendation or performance rating",
_5 "You have reached a Retention Control Point (up-or-out promotion policy)",
_6 "You are barred from reenlistment",
Other "Some other reason <I1>(Please briefly describe.)</I1>")

A_AA_ResnsNoOptSpec (A_A07_Q) : TStringOther
ENDGROUP
```

- Select All/Clear All

```
F7MO (F7MO)
"For which months in ^PYear was that?
<br><br><Instruct>Please select all that apply.</Instruct>"

"¿Por cuáles meses fue eso en ^PYear?

<br count=2><tab><Instruct>• ENTER all that apply, For multiple response, use space bar or dash to
separate responses</Instruct>
<br count=2><tab><Instruct>• PROBE: </Instruct> ¿Algo más?"
/ "Months in ^P2Year Paid Child Care"
RTMod "SELECTALLCLEARALL = All"
:

TMOStringSet
```



API - Select All, Clear All (Checkbox)

During which months was that?

Please select all that apply.

All 12 months

January

February

March

April

May

June

July

August

September

October

November

December



API - Other Specify

How is your home heated?

Please select all that apply.

- Gas
- Electricity
- Oil
- Wood
- Coal
- Solar
- Bottled gas or propane
- Kerosene
- Other - Please specify:



API - Multiple dropdown menus with multiple radio buttons and with textbox

What is his full birthdate?

If you do not know the month, please select the season.

Select ▼ Month or Season Day Select ▼ Year

- 2013–2015 but don't know which year
- Before 2013 but don't know exact year



API – Disable Radio Buttons If Mask Textbox Is Zero or Empty

- Screen Capture: On page load:

About how much rent do you pay?

\$.00 per

Week
 Two weeks
 Month
 Year
 Other - Please specify:

- After the value (inside correct range) is entered into mask textbox:

About how much rent do you pay?

\$.00 per

Week
 Two weeks
 Month
 Year
 Other - Please specify:



Recognition

- Gina Chueng
- Peter Sparks
- Jason Ostergren
- Mark Pierzchala
- The Entire Blaise Team



Closing Remarks





References

- Blaise 5 Help Manual
- Stackoverflow.com/ and other Internet recourses
- Challenges Ahead Image:
https://www.google.com/search?q=image+of+challenges&rlz=1C1CHMO_enUS518US518&espv=2&biw=1920&bih=950&tbm=isch&imgil=PIFuFKn_B6n_EM%253A%253BfoddBn4dKSR1uM%253Bhttp%25253A%25252F%25252Fletstalkwithwaveyb.com%25252Fchallenges-of-the-new-year%25252F&source=iu&pf=m&fir=PIFuFKn_B6n_EM%253A%252CfoddBn4dKSR1uM%252C_&usg=__YW0E_L_vhhrukESxlnQRb0E81RY%3D&ved=0ahUKEwif8-rRmbXPAhVG_R4KHaUoDuQQyjclOA&ei=mVztV9_CNMb6e6XRuKAO#imgdii=PIFuFKn_B6n_EM%3A%3BPIFuFKn_B6n_EM%3A%3BByFEIX8cQKycAOM%3A&imgrc=PIFuFKn_B6n_EM%3A
- Willem Dafoe Quote: http://www.brainyquote.com/quotes/keywords/challenges_2.html
- Q and A Image:
https://www.google.com/search?q=closing+remarks+images&rlz=1C1CHMO_enUS518US518&espv=2&biw=1920&bih=901&source=Inms&tbm=isch&sa=X&ved=0ahUKEwjs28TNpbXPAhUBGx4KHZEBANAQ_AUIBigB#imgrc=GCD0MQ2VwOogbM%3A
- Big house image: Google search