

# **Tips & Tricks**



### **Overview**

- Constants
  - Auxfield vs. Constant Examples
- Snippets
- Debugging the Rules

- Debugging Layout
  - Finding a field
  - Using Visual Cues
  - Browser Preview
  - Warning Icon
  - Validate
  - Sizing Issues
  - Layout Instructions



- Similar to constants in other programming languages
  - Cannot be reassigned, only referenced
- Define INTEGER, REAL, ARRAY, BOOLEAN, STRING
  - Choose to define whether a string is translatable
    - Double quotes: can define multiple languages in .blax/.bitt
    - Single quotes: cannot be translated (useful for enhanced text)
- Use constants in other type declarations
- Cleaner way of initializing variables
- Can also be used in Manipula

#### CONST

```
Insanity = 'Repeating the same text.'
Veto = FALSE
SurveyDay = [ 'Monday', 'Wednesday', 'Friday' ]
SomeDays = [ ENG "Monday" "Maandag", "Tuesday" "Dinsdag", ENG "Wednesday" NED "Woensdag" ]
Root2 = 1.41421356
OK = TRUE
Zero = 0
Spacing = '<NewLine count=3>'
ASize = 10
Code = 3
Min = 1.25
Max = 9.75
txtHe = ENG "he" FRA "il"
```



# **Auxfield vs. Constant Examples**

```
HowManyPeople
IF HowManyPeople = 1 THEN
   IF ACTIVELANGUAGE = EN THEN
      IntroText1 := '<newline>Hello ' + Name+ ' and welcome to the questionnaire.'
      IntroText2 := '<newline count=3>I would like to now ask you some questions about your living situation.'
   ELSE // ACTIVELANGUAGE = NL
      IntroText1 := '<newline>Hallo '+ Name+ ' en welkom bij de vragenlijst.'
      IntroText2 := '<newline count=3>Ik wil je nu vragen stellen over jouw woonsituatie.'
   ENDIF
ELSE
   TF ACTIVELANGUAGE = EN THEN
      IntroText1 := '<newline>Hello, welcome to the questionnaire.'
      IntroText2 := '<newline count=3>I would like to now ask each of you some questions about your living situations.'
  ELSE // ACTIVELANGUAGE = NL
      IntroText1 := '<newline>Hallo, welkom bij de vragenlijst.'
      IntroText2 := '<newline count=3>Ik wil jullie nu vragen stellen over jullie woonsituatie.'
   ENDIF
ENDIF
```

| CONST  |
|--|
| // These are translatable through a BITT file because of the double quotes   |
| cintroTextISingle = EN " <newline>Hello \$name and welcome to the questionnaire."</newline>  |
| NL <newline bij="" de="" en="" hallo="" shame="" vragenijst.<br="" werkom="">cIntroText2Single = EN "/newline count=3NI would like to now ask you some questions about your living situation "</newline> |
| NI. " <newline count="3">I would like to now ask you some questions about your living situation.</newline>   |
| cIntroText1Multi = EN " <newline>Hello, welcome to the guestionnaire."</newline>   |
| NL " <newline>Hallo, welkom bij de vragenlijst."</newline>   |
| cIntroText2Multi = EN " <newline count="3">I would like to now ask each of you some questions about your living situations."</newline>   |
| NL " <newline count="3">Ik wil jullie nu vragen stellen over jullie woonsituatie."</newline>   |
|  |
| •••  |
|  |
| HowManyPeople  |
| IF HowManyPeople = 1 THEN  |
| <pre>IntroText1 := REPLACE(cIntroText1Single, '\$name', Name)</pre>  |
| IntroText2 := cIntroText2Single  |
| ELSE   |
| IntroText1 := cIntroTextIMult1   |
| ENDIF  |
|  |

AUXFIELDS HelpUrl : STRING RULES HelpUrl := '<hyperlink uri=http://help.blaise.com target=\_blank>Blaise Help</hyperlink>'

CONST

// This is not translatable through a BITT because of the single quotes
cHelpUrl = '<hyperlink uri=http://help.blaise.com target=\_blank>Blaise Help</hyperlink>'

```
TYPE
  TRange = 1..10
LOCALS
  i : Trange
AUXFIELDS
  Max : INTEGER
FIELDS
   People : ARRAY[1..10] OF bPerson
RULES
  Max := 10
  HowMany
  IF HowMany = Max THEN
     MoreThanMax
     IF MoreThanMax = YES THEN
        MoreThanMaxInfoText
     ENDIF
   ENDIF
   FOR i := 1 TO HowMany DO
     People[i](i)
   ENDDO
```

```
CONST cMax = 10
```

```
TYPE
TRange = 1..cMax
```

```
LOCALS
i : TRange
```

```
FIELDS
    People : ARRAY[1..cMax] OF bPerson
```

```
RULES
```

```
HowMany
IF HowMany = cMax THEN
MoreThanMax
IF MoreThanMax = YES THEN
MoreThanMaxInfoText
ENDIF
ENDIF
FOR i := 1 TO HowMany DO
    People[i](i)
ENDDO
```



- Small, reusable pieces of code that can quickly be inserted
  - Separate snippets for Manipula and Data model projects
- Can be inserted through button click or a shortcut
- Useful if you need code directly in the sources instead of an Include file
- Can be shared throughout organization
- Improve programming speed







| \$                   | Edit Snippets - C:\ | Users\RBLD\Docum    | ents\Blaise5\Snippets (Blaise) |      | • **  |
|----------------------|---------------------|---------------------|--------------------------------|------|-------|
| Snippets:            |                     |                     |                                | _    |       |
| alienprocedure       | ShortCut:           | field               |                                | 0    |       |
| I block              | Author:             | Blaise Team         |                                |      |       |
| tassification        | Title:              | Field               |                                |      |       |
| .G. datamodel        | Description:        | Add a field to your | datamodel                      |      |       |
| externaldeclaration  | Defined Declarat    | ions:               |                                |      |       |
| external             | ID                  | Default             | Tooltip                        |      |       |
| field                | FieldName           | MyField             | Name of the field              |      |       |
|                      | QuestionText        | Question Text       | Question Text                  |      |       |
| at flight            | Туре                | string[20]          | The Datatype of the field      |      |       |
| ♦• for               |                     |                     |                                |      |       |
| 🖍 if                 | Snippet Text:       |                     |                                |      |       |
| 📜 library            | ¢EioldNor           | . "OuestionTex      | +¢", ¢Tupo¢                    |      | +     |
| www.specialanswerset | \$Fleidwan          | ies squescionies    | сэ этуреэ                      |      |       |
| -                    |                     |                     |                                |      |       |
|                      |                     |                     |                                |      | -     |
|                      | •                   |                     |                                |      | ► 1   |
| 🗟 🗟 🚡 🔽              |                     |                     |                                | Save | Close |

- ShortCut: use shortcut + TAB to insert the snippet
- Title: Text in the Control Cenre Ribbon
  - Can optionally add a thumbnail
- Declarations
  - Parts of snippet that can be changed by user
  - Can be reused throughout snippet
  - Navigated via TAB



| DATAMODEL SnippetDatamodel          |
|-------------------------------------|
| PRIMARY ID                          |
| FIELDS                              |
| ID : INTEGER[4]                     |
| MyField "Question Text": string[20] |
| ENDMODEL                            |



#### Create your own!

|                               | Edit Snippe                                    | ts - C:\Users\RBI                           | D\Documents\Blaise5\Snippets (Manipu | ila) | E 23  |
|-------------------------------|--|---|--------------------------------------|------|-------|
| connect<br>Pa Dialog<br>entry | ShortCut:<br>Author:<br>Title:                 | func<br>Function                            |                                      | .₹   | 8     |
| func                          | Description:                                   |   |                                      |      |       |
| Lookup                        | Defined Declara                                | ations:                                     |                                      |      |       |
| z. setup                      | ID   | Default                                     | Tooltip                              |      | 0     |
|                               | Instructions                                   |   | Instructions of the function         |      |       |
| O repeat                      | ReturnType                                     | STRING                                      | Return type of the function          |      |       |
| ryan<br>surveylist            | Name   | FuncName                                    | Name of the function                 |      |       |
| S while                       | Snippet Text:                                  |   |                                      |      |       |
|                               | FUNCTION<br>INSTRUCTIO<br>\$Inst<br>ENDFUNCTIO | \$Name\$ : \$Ret<br>ONS<br>ructions\$<br>ON | ırnType\$                            |      | +     |
|                               |  |   |                                      |      | *     |
| 🗈 🗟 🗟 💗                       |  |   |                                      | Save | Close |



 Tip: Use Backspace + ESC to exit snippet editing in the middle of the function





**Session Viewer** 

- View current status of a session
- Refresh to view changes since last update
- View the values of Auxfields
- Opened via Control Centre, Server Manager or executable

### Requirements

 Data model must have a primary key

### **Tips & Tricks**

- Data entry settings
  - Set Server Contact to on field switch
- Critical fields



#### **Control Centre**



#### SessionViewer.exe

#### Server Manager

| 👔 SessionViewer.exe | 29-8-2023 05:00 | Application | 51.505 KB | Refresh Install Upgrade Remove | Download CATI<br>specification | Deactivate | View<br>Alter<br>Reset Up Vi | ssion Data Para Data<br>ewer Viewer | а |
|---------------------|-----------------|-------------|-----------|--------------------------------|--------------------------------|------------|------------------------------|-------------------------------------|---|
|                     |                 |             |           |                                | Sur                            | /ey        |                              |                                     |   |
|                     |                 |             |           | 🔺 📃 Server Management          | Instrument                     | Status     | Install Date                 | <ul> <li>Cati Role</li> </ul>       | w |
|                     |                 |             |           | 🖻 🔝 СМА                        | Button                         | Active     | 18-9-2023 11:35              | ;                                   | Μ |
|                     |                 |             |           | CMA_Admin                      | AuxfieldStrings                | Active     | 18-9-2023 11:35              | ;                                   | м |
|                     |                 |             |           | EMA_App                        | ConstNums                      | Active     | 18-9-2023 11:35              | j                                   | м |
|                     |                 |             |           | CMA_Surveys                    | AuxfieldNums                   | Active     | 18-9-2023 11:35              | ;                                   | м |
|                     |                 |             |           | IccalDevelopment               | ConstStrings                   | Active     | 18-9-2023 11:35              | ;                                   | М |
|                     |                 |             |           | Image: Servers                 | NonResponse                    | Active     | 18-9-2023 10:03              | 8 NonResponse                       | м |
|                     |                 |             |           | Surveys (23)                   | Computations in Sets           | Active     | 15-9-2023 10:07              | 7                                   | м |
|                     |                 |             |           | 🐁 Settings                     | SessionViewer                  | Active     | 14-9-2023 15:35              | ;                                   | м |

| RULES  |
|--|
| Includes.KEEP  |
| Dob  |
| GeboorteDatum := TODATE(Dob.Dag, Dob.Maand, Dob.Jaar)  |
| gBeroep  |
| IF Beroep in [1, 3] {ASK Field} AND Includes.c = Yes {Included field} THEN   |
| IF GeboorteDatum.Age {Calculated Auxfield} < Includes.b {Included Field} AND Includes.a = RESPONSE {Included Field} THEN |
| IF Includes.MoetVragen = YES {Included Auxfield} THEN  |
| ProgramLang  |
| ENDIF  |
| ENDIF  |
| ENDIF  |



| \$  |                 | Session Viewer - SessionVie | wer                                  |                    |
|---|-----------------|-----------------------------|--------------------------------------|--------------------|
| File Home                                   |                 |                             |                                      |                    |
| Language :<br>Settings : StrictInterviewing | Q               | 🎲 Refresh 🛛 🖊 Export        |                                      |                    |
| Parallel :                                  | F Select fields | 🕒 Watch                     |                                      |                    |
| Active Field : Dob.Header                   |                 | A↓ Fields Sorted            |                                      |                    |
| Data Entry State                            | Search          | Commands                    |                                      | ^                  |
| A Geboortedatum=1-1-0001                    | Primary Key     | Status                      | ID                                   | Last Modification  |
| F ID='id1'                                  | id1             | Active                      | 0e7e7282-bb4f-4587-98a8-163444cce1f3 | 18-9-2023 14:55:34 |
| 🔺 📕 Includes                                | 46546           | Closed                      | 05fec0a2-f441-46f9-83d1-668f19476200 | 14-9-2023 15:31:09 |
| F a='abc'<br>F b=50<br>F c=Yes              |                 |                             |                                      |                    |
|   | •               |                             |                                      |                    |
| 1/2 Sessions for instrument Session         | Viewer loaded.  |                             |                                      |                    |

| Session Watch Window - id1  |   | X |
|---|---|---|
| A Geboortedatum=1-1-0001<br>F ID='id1'<br>MoetVragen=Yes<br>F a='abc'<br>F b=50<br>F c=Yes  | A Geboortedatum=1-1-0001<br>F ID='id1'<br>MoetVragen=Yes<br>F a='abc'<br>F b=50<br>F c=Yes<br>Dob<br>F C=Yes<br>F Maand=9<br>F Dag=18<br>F Jaar=1993  |   |
| ActiveFieldName Dob.Header<br>DataEntrySettingsName StrictInterviewing<br>LanguageName<br>ParallelName<br>UserName <anonymous><br/>Status Active<br/>LastModification 18-9-2023 14:55:34<br/>PrimaryKeyValue id1<br/>ActiveMode<br/>FormStatus New<br/>ActiveParallelKind Main<br/>ValidationStatus Dirty</anonymous> | ActiveFieldName Beroep<br>DataEntrySettingsName StrictInterviewing<br>LanguageName<br>ParallelName<br>UserName <anonymous><br/>Status Active<br/>LastModification 18-9-2023 14:57:14<br/>PrimaryKeyValue id1<br/>ActiveMode<br/>FormStatus New<br/>ActiveParallelKind Main<br/>ValidationStatus Dirty</anonymous> |   |



| RULES  |
|--|
| Includes.KEEP  |
| Dob  |
| GeboorteDatum := TODATE(Dob.Dag, Dob.Maand, Dob.Jaar)  |
| gBeroep  |
| IF Beroep in [1, 3] {ASK Field} AND Includes.c = Yes {Included field} THEN   |
| IF GeboorteDatum.Age {Calculated Auxfield} < Includes.b {Included Field} AND Includes.a = RESPONSE {Included Field} THEN |
| IF Includes.MoetVragen = YES {Included Auxfield} THEN  |
| ProgramLang  |
| ENDIF  |
| ENDIF  |
| ENDIF  |



# **Debugging Layout**



# Finding a field

### Find a field

#### CTRL + F (Source View)

| Þ | Pre | Txt  |   |   |          | → | × | + |
|---|-----|------|---|---|----------|---|---|---|
|   | Aa  | " ,, | * | t | Document | • |   | l |

## CTRL + SHIFT + F (Source View)

| Find and Replace       |           | • ¶ ×        |           |                  | Find In Layout         |
|------------------------|-----------|--------------|-----------|------------------|------------------------|
| 🔍 Find                 |           | ÷            |           |                  | Find What? :           |
| Find What? :<br>PreTxt |           | •            |           |                  | Scope:<br>Search in Cu |
| Scope :                |           |              |           |                  | <br>- Search           |
| Search in Project      | t         | •            |           |                  | <br>Match C            |
| - Search Op            | tions     |              |           |                  | - Search               |
| Match Case             | e         |              |           |                  | <br>Route It           |
| Match Who              | le Word   |              |           |                  | <br>Text Ele           |
| Search Up              |           |              |           |                  | <br>Layout             |
| Skip Comm              | ents      |              |           |                  | <br>Express            |
|                        | File      | Home Sou     | urce      |                  | Control                |
| Find                   | 🔏 Cut     | PreTxt       | Q. 🔽      | Match Case       | Images                 |
|                        | 👍 Сору    | Search in Pr | oject 🗸 🗸 | Match Whole Word |                        |
| Find All               | Paste     | Search U     | p 🔲       | Skip Comments    | Find                   |
|                        | Clipboard |              | Search    |                  |                        |
|                        |           |              |           |                  |                        |

#### CTRL + F (Layout Designer)

| Find In Layout 🔹 🖣 🗙         |
|------------------------------|
| Find What? :                 |
|                              |
| Scope:                       |
| Search in Current Parallel 🔹 |
| - Search Options             |
| Match Case                   |
| - Search Filter              |
| Route Items                  |
| Text Elements                |
| Layout instructions          |
| Templates                    |
| Expressions                  |
| Control ID's                 |
| Images                       |
| Find Cancel                  |

### Find a field definition

- CTRL + F7
  - Quickly jump from the focused field in the Layout Designer to the same field in the Source View or back
    - It jumps to the location where the field is asked or shown (in the rules)
- F8
  - Jumps to the definition of a field
- Right-click on an identifier to see all the options in its context menu

| - C      | Open Include File                   | Ctrl+Return    |
|----------|-------------------------------------|----------------|
| Û        | Insert a file                       | Ctrl+F8        |
|          | Find Definition                     | F8             |
|          | References List                     | Shift+F8       |
|          | Rename Identifier                   | Shift+F2       |
| F        | Edit Field                          | Ctrl+Shift+E   |
| 5        | Undo                                | Ctrl+Z         |
| 2        | Redo                                | Ctrl+Y         |
| X        | Cut                                 | Ctrl+X         |
| 6        | Сору                                | Ctrl+C         |
| 0        | Paste                               | Ctrl+V         |
|          | Paste with space trimming           | Ctrl+Shift+V   |
|          | Select All                          | Ctrl+A         |
|          | Highlight Current Word              | Ctrl+M         |
| <u>م</u> | Show Bookmarks                      |                |
|          | Toggle Bookmark                     | Ctrl+Shift+B   |
|          | Find Previous Bookmark              | Ctrl+Shift+F11 |
|          | Find Next Bookmark                  | Ctrl+Shift+F12 |
|          | Clear Bookmarks in current document |                |
|          | Clear All Bookmarks                 |                |

# Using visual cues

### **Visual Cues**

- Change a template visually
  - Add different colors to parts of templates
  - Change sizes
  - Add an extra element
- This will allow you to see if you're changing things in the template you were expecting
  - Are you maybe changing it in the wrong **Resource Set?**
- It will also show where each part of a template is presented, in relation to each other
  - This can help when trying to determine which cell needs a different size

| Template |                                    |                              |                         |
|----------|------------------------------------|------------------------------|-------------------------|
| Name:    | OptionListHeader                   | Description: Category Column | n Header Image: Select. |
| Catego   | ory Column Header Templat          |                              | Properties Events       |
|          | o,o<br>ategory Text (categoryText) |                              | Category Text           |
|          |                                    |                              | AccessibilityRole 🔹 🛃 📥 |
|          |                                    |                              | Background 🛛 📕 Lime 🗔 🛒 |
|          |                                    |                              | ColSpan 1               |
|          |                                    |                              | ColumnIndex 0           |
|          |                                    | Auto                         | Comment                 |
|          |                                    | Category Category Text       | Enabled True 🔻 📡        |
|          |                                    |                              | FontName                |





## **Browser Preview**

### **Browser Preview**



- The Layout Designer shows a preview of the DEP
- To see a preview in the browser, click the dropdown next to the eye in the quick menu bar and select the browser
  - The current page will open in your selected browser
  - Only visual, NOT behavior
  - You can open the page in multiple browsers at the same time
    - check if everything looks alright in all browsers
  - Refresh the browser(s) (F5) to update the page after changing something in the Layout Designer to see the result of that change

# Warning Icon

### Warning Icon

- Shows that a template is not applicable
  - Because the type is wrong
  - Or the template does not exist in the Resource Database
- Hovering over the icon will show a tooltip with details





# Validate

### Validating your data model

- Validation is important to make sure everything works as designed
  - Invalid sources won't compile/run
  - Invalid layout may cause unexpected behavior
- Validating consists of three steps:
  - Step 1: Validate your sources
  - Step 2: Validate your Resource Database
  - Step 3: Validate the layout
- If at any point something does not validate
  - Fix it
    - Start validating again from the level in which you fixed it (sources/Resource Database/Layout Designer)



### Validate - Sources

#### The first step is validating your sources

- By default, this is done automatically by the parser
  - If you turned this option off, you need to compile the project manually (yellow arrow)
- If you are unsure if something was updated after a change
  - Type a space somewhere
  - Compile manually (yellow arrow)
    - This will force the system to recreate your .bmix
    - Last resort: restart the services (if possible)

#### The error window will show errors, warnings and information

- Errors: need to be solved
- Warnings: read them, consider if they will affect your questionnaire
  - Fix if they may affect your input/output values
  - It's ok to leave them if they do not apply to what you are using it for
- Information: read and decide if you need to do something with it or not

### Validate – Resource Database

- When your sources compile correctly, check your layout
  - Validate your Resource Database
    - Fix all errors
      - Preferably all, but the ones pertaining to templates you use at the very least
    - Fix all warnings
      - Preferably all, but the ones pertaining to templates you use at the very least
    - Why all?
      - Because you may decide to use one of the invalid templates at a later point or it may be automatically applied if you change your sources and invalid templates may cause unexpected behavior

### Validate – Layout Designer

- If your sources compile and your Resource Database is valid, your layout may still show errors
  - Because the combination of templates you ended up using causes errors
    - Often these are Auto-Stretch errors
    - Sometimes these are Scrollbar-warnings

### Validate – Layout Designer

#### • To fix:

#### click on the error message

- It will jump to the template where it encountered the unwanted situation
- Note that the error usually requires changing something in this template as well as in one or more parent templates (all the way up to the MasterPage template)
  - Use the Layout Designer | Layout instructions or the Template Explorer to see which templates are used
  - Jump to the template in the Resource Database from the Layout Designer
    - This will ensure you are changing things in the correct template
    - If you only need to fix something for one or 2 questions, it may be better to add a parameter to the template and change the value of that
      - This will ensure your other questions don't use that 'fix'
- If you made changes in the Resource Database, revalidate that
- If you made the changes in the Layout Designer only, revalidate the layout there

# Sizing Issues



### "Do not stretch in an Auto"





## Sizing-table

#### <child> in <parent> = <cell-value>

|       |            |   |   | PARENT  |   |   |
|-------|------------|---|---|---|---|---|
|       |            | Auto  | Stretch/*   | %   | Undefined   | Fixed size  |
|       | Auto       | OK  | OK, but if the child is<br>larger than the<br>available space, it<br>will be cut off                              | OK, but if the child is<br>larger than the<br>available space, it<br>will be cut off  | ОК  | OK, but if the child is<br>larger than the fixed<br>size, it will be cut off                                      |
|       | Stretch/*  | NOT OK  | ОК  | NOT OK  | OK, if the child<br>directly replaces a<br>placeholder. If not:<br>NOT OK   | ОК  |
| CHILD | %          | NOT OK  | NOT OK  | ОК  | OK, if the child<br>directly replaces a<br>placeholder. If not:<br>NOT OK   | OK  |
|       | Undefined  | OK if its direct child<br>is Auto or fixed.<br>NOT OK if its direct<br>child is Stretch/* | OK, but if its direct<br>child is Auto or fixed,<br>and larger than the<br>available space, it<br>will be cut off | OK, but if its direct<br>child is Auto or fixed,<br>and larger than the<br>available space, it<br>will be cut off<br>NOT OK if its direct<br>child is Stretch/* | OK, but if its direct<br>child is Auto or fixed,<br>and larger than the<br>available space, it<br>will be cut off<br>NOT OK if its direct<br>child is Stretch/* | OK, but if its direct<br>child is Auto or fixed,<br>and larger than the<br>available space, it<br>will be cut off |
|       | Fixed Size | ОК  | OK, but may be cut<br>off if there is not<br>enough available<br>space  | OK, but may be cut<br>off if there is not<br>enough available<br>space  | OK, but may be cut<br>off if there is not<br>enough available<br>space  | OK, but may be cut<br>off if there is not<br>enough available<br>space  |

43

### **Child-Parent relationship examples**

# The DataValue template is child to the FieldPane template, but also parent to all the Category templates

| Layout instructions       |               |
|---------------------------|---------------|
| FieldPane parent          | Vertical      |
| DataValue parent child    | AnswerList 🔹  |
| Category ( <all>)</all>   | Enumeration • |
| Category (HImMEens) Child | Enumeration   |
| Category (MEens)          | Enumeration • |
| Category (NietNiet)       | Enumeration • |
| Category (MOneens)        | Enumeration • |
| Category (HImMOneens)     | Enumeration • |
|                           |               |



mainGrid is parent to Cell 0,0 but also child to mainPanel

### Sizing – simplified rules

- Start from the bottom and work your way up through the template (and its parent templates)
  - Check the Template Explorer to see which templates are used for this field
  - If you want a text to wrap, it needs to be Stretch
    - This means that all its parents should be either Stretch, Star (\*) or Fixed
- Note that once a fixed size is introduced, this 'breaks' a chain of Stretch/\*
  - its parent can be seen as the new bottom element to start from



## Sizing - example



### Sizing – simplified rules

- Column)Widths are usually set to Stretch
  - so they can wrap where needed and use all available space
  - except maybe on the top level, depending on whether or not you always want your page to be the same width (use a fixed size in that case)
    - Make sure to have a background in case the screen is bigger
- (Row)Heights are usually set to Auto
  - except maybe on the top level, depending on whether or not you want your content area to 'float' or be stationary (use Star (\*) in that case)
- Use fixed sizes for elements that need to stay the same size, regardless of the rest of the page
  - E.g. a header, a footer, or (navigation) buttons
- Use margins to space out things instead of an empty row or column
  - This will cut down on the number of elements and can improve performance as a result

# Layout Instructions

Why and where are they used



### Layout Instructions – selection reason

- You can see why a template has been applied
  - By hovering over the colored dot in front of the template in the Layout instructions
  - Check this if you don't understand why a template has been applied

| Layout instructions          |                      |
|------------------------------|----------------------|
| MasterPage                   | MasterPageIndexLeft  |
| A Language ( <all>)</all>    | FlagUK •             |
| Template selection reason: A | AppliedAutomatically |



### Layout Instructions – selection reason

- If you need more information, you can hover the template kind
  - This will show more detailed information
    - It also shows why another template was NOT applied



### **Instruction Explorer**

- Gives an overview of all applied layout instructions used in the current Layout Set
  - Blue = individual instructions
  - Red = Block or Type instructions
- Useful to quickly see where which instruction is used
  - Especially if it's automatically applied as they don't show up as icons
- A collection of all the information from all individual instruction icons (when hovered over) on the left-hand side in the Structure view
  - If you don't know exactly what you are looking for, hovering over individual instruction icons could take very long to check



## Instruction Explorer

|   | CVC - Blaise Control Centre  | X % _  |
|---|--|--|
| File Home Lavout  |  | Configuration Development  |
|   |  |  |
| Maste Maste Maste Maste NewPage Page FagN FlagU I I I I I I I I I I I I I I I I I I I | Instruction     Image: Carbon display="1">Image: Carbon display="1"       Image: Carbon display="1">Image: Carbon display="1"       Image: Carbon display="1">Image: Carbon display="1"       Image: Carbon display="1" <tr< td=""><td></td></tr<>   |  |
| Master Pages 🛛 Page Operations Page Areas 🗔 Critical Fields                           | Management Styles 🗇 Layout Data So Mappi Validate Synchronize  | ^  |
| Start Page CVC.blax 🗙   |  | Instruction Explorer 🚽 🗸 🗸   |
| Pages Structure Custom Pages CVC   Interviewing   Interviewing-Large                  | lel> Strictinterviewing LMD Pane: 2 1  |  |
| Page 1  | Value Dana Suta  | B_Main.B_Matrix_Row:   |
| Main (Groupable)  | StatNeth Question Catalog  | * Critical Field: (Block, Parallel)                                |
| Intro (Section)   |  |  |
| Intro 1   | Home This is de Init Lot   | B_Main.B_TableMultiColumn.bTableHeader:                            |
| Page 2  | Vetsial  https://www.setsial.com/setsial.c | Kolom2:<br>* Critical Field: (Block Parallel)                      |
| Main (Groupable, cont'd)  | Other weekons before mer   |  |
| Vertical (Section)  | Option table unit with a grant and table and t | Main;<br>* MasterPage: MasterPageIndexLeft (Instance, LavoutSet)   |
| StringField   | Notice The is the heat base  | masteri ege masteri agendezen (instance, Edybutoet)                |
| VerticalSingleResponse (Groupable)  |  | Main. TableMultiColumn. TableMultiColumn_Vraag:                    |
| IntegerField  | This is a vertical question with a date field  | Table. Table (Instance, Layoutset)                                 |
| OpenField   | This is the bias last<br>manufds/yayy 100  | Main.Other.HuisnummerGrp:  |
| DateTypeField   | 3 This is a vertical question with a time field  | <ul> <li>Table: Abreast (Instance, Layoutspecification)</li> </ul> |
| TimeTypeField   | This is the Main East<br>Johnma Adv/M = -  | Main.OtherSpecify.OSEF:  |
| LookupField   | This is a vertical question with a lookup field  | * NewPage (Before) (Instance, LayoutSet)                           |
| VerticalAnswerlist (Groupable)  | Enter a country name   | Main.Matrix.Matrix:  |
| EnumerationField  | This is a vertical question with an answer list  | * Table: Table (Instance, LayoutSet)                               |
| SetField  | ○ Totally agree  |  |
| EnumerationSpecialAnswerField   | Agree     Device some device descense  | B_Main:  |
| SetSpecialAnswerField   | Disgree     Disgree  | * NewPage (Before) (Block, LayoutSet)                              |
| VerticalDRopdownlist (Groupable)  | ○ Totally disagree   | Horizontal:<br>* NewPage (Before) (Block, LayoutSet)               |
| DropDownlistField   | This is a vertical question with a list of multiple choices  | OptionTable:<br>* NewPage (Before) (Block LavoutSet)               |
| Page 3  | Totally agree  | Other:<br>there (Defers) (Black, Experied)                         |
| Main (Groupable, cont'd)  |  | TableMultiColumn:  |
| Horizontal (Section)  | Diant agree Diant disagree   | * NewPage (Before) (Block, LayoutSet)<br>Matrix:                   |
| StringFieldHorizontal Preview Code  |  | * NewPage (Before) (Block, LayoutSet)                              |
| IntegerFieldHorizontal  |  |  |
| Source Te Meta Sattings To Lawret   |  |  |
| Es conrec la mera 🥂 germilio 🔚 rayour   |  |  |
| Errors  | - + + × + ×  |  |
| Layout Validation   |  |  |
| Type Message Control Template   | Applied To Control Part Child Template Child Applied To  | 4  |
|   |  |  |
| Accessibility Validation  |  | 1  |
| Type Message Page Routeltem   | Template Control LayoutSet Parallel  |  |
|   |  | 1  |
| Missing Critical Fields: 1  | Make Critica   | ฏิ 🦾   |
| Main.Vertical.LookupField   |  | 1  |
|   |  |  |
| 📀 Errors 📑 Output 🍬 References List 🔍 Find List                                       |  | 🔹 Solution 📚 Properties 🐺 Template 🐺 Instructio                    |
|   |  | Considers A Marsing - Can a set of marsing                         |
|   |  | Services. Version : 5.13.9.3463 (Developer)                        |





# Thank you for your time



## Gaining deeper understanding



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 $\square$ 

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YA

