

Intermediate Designer 2:  
Rosters, Nested Rosters,  
html tags, and piping

# Overview

- Basic Rosters
- Nested Rosters
- Formatting Text with HTML tags
- Piping

# Learning Objectives

- Know how to build a roster
- Know about nesting rosters
- Know about html tags
- Know about piping

# **Building, using, and nesting ROSTERS**

# What is a roster?

- Rosters are defined by two parameters:
  - a number of rows (i.e. unique elements)
  - elements about which questions are asked (i.e. variables)
- “Triggers” dictate those parameters
  - At least one parameter: size
  - Often another parameter as well: content

# Triggers

- Rosters are defined by two parameters:
  - a number of rows (i.e. unique elements)
  - elements about which questions are asked (i.e. variables)
- “Triggers” dictate those parameters
  - At least one parameter: size
  - Often another parameter as well: content

KEY CONCEPT AHEAD!

# Triggers

TRIGGER QUESTION

**ROSTER**



- Fixed set of items
- Number
- List
- Multi-select



# Types of triggers

## SECTION M: HOUSEHOLD ASSETS

		1. How many [ITEMS] does your household own?  IF NONE, WRITE '0' (► NEXT ITEM)	2. What is the age of this [ITEM]?  IF MORE THAN ONE ITEM, WRITE THE AVERAGE AGE	3. At what price did you buy [ITEM]?  IF MORE THAN ONE, WRITE THE AVERAGE PRICE	4. If you wanted to sell one of this [ITEM] today, how much would you receive?  IF MORE THAN ONE, WRITE THE AVERAGE VALUE
CODE		NUMBER	YEARS	TSH	TSH
401	Radio and Radio Cassette				
402	Telephone(landline)				
403	Telephone(mobile)				
404	Refridgerator or freezer				
405	Sewing Machine				
406	Television				
407	Video / DVD				
408	Chairs				
409	Sofas				
410	Tables				
411	Watches				
412	Beds				
413	Cupboards, chest-of-drawers, boxes, wardrobes,bookcases				
414	Lanterns				
415	Computer				
416	Cooking pots, Cups, other kitchen utensils				
417	Mosquito net				
418	Iron (Charcoal or electric)				
419	Electric/gas stove				
420	Other stove				
421	Water-heater				
422	Record/cassette player, tape recorder				
423	Complete music system				
424	Books (not school books)				
425	Motor Vehicles				
426	Motorcycle				
427	Bicycle				

- Fixed set of items
- Number
- List
- Multi-select

# Types of triggers

## SECTION 5: No AGRICULTURAL ENTERPRISES

### PART B : CHARACTERISTICS OF THE NON-AGRICULTURAL ENTERPRISES


(5.00) Write the number of enterprises owned by the household :







ID CODE OF ENTERPRISE	(5.11) Indicate the principal good and/or service produced by this enterprise.	(5.12) Activity Code	(5.13) What is the ID CODE of the principal respondent for this enterprise?	(5.14) What is the ID CODE of the owner(s) of this enterprise? (Maximum of 2)		(5.15) What is the ID CODE of the person(s) who manage(s) this enterprise? (Maximum of 2)	
		ACTIVITY CODE		Owner 1	Owner 2	Mgr 1	Mgr 2
				ID CODE	ID CODE	ID CODE	ID CODE
	Product/Service						
1							
2							
3							
4							
5							
6							

- Fixed set of items
- **Number**
- **List**
- Multi-select

# How to create a roster

## Skip Patterns



 Do you speak any foreign languages?	language
 Which foreign languages do you speak?	foreign_languages
 Photo graph product	photo
 Select the respondent's gender	gender
<u>12</u> What is the respondent's age?	age
 Is the respondent currently pregnant?	pregnancy
 Select all of the following crops that are cultivated on the parcel	crops
<u>AB</u> Specify other crop	crops_other

ADD QUESTION

ADD SUB SECTION

ADD ROSTER

ADD STATIC TEXT

ADD VARIABLE

PASTE

Title

Skip Patterns

SAVE

CANCEL

DELETE

# How to create a roster

- Choose roster type

FORM 1: CHARACTERISTICS OF AGRICULTURAL HOUSEHOLD /

Roster source

Fixed set of items

Fixed set of items

List question

Multi-select question

Numeric question

0 Title

ADD ITEM

Enabling condition (?)

SAVE

CANCEL

DELETE

CLONE

MOVE TO ▲

# Trigger type: Fixed

Form 1: Characteristics of agricultural household

AB Address of HH key\_text

Geo tag geo\_tag

AB Name of agricultural farmer hh\_name\_of\_farmer

12 Age of farmer farmer\_age

Household Member names hh\_members

Roster: HOUSEHOLD MEMBER ROSTER household\_characteristics

Relationship to HH relationship\_hh

What is the sex of the hh member? gender

Age of HH member age

Marital status of HH member marital\_status

Literacy for persons more than 12 years old literacy

What is the level of education for persons more than 6 years old education

Principal activity (persons more 6 years) principal\_activity

Secondary activity (persons more 6 years) secondary\_activity

What sector does the person work in? test\_questionforacas

ADD QUESTION ADD SUB-SECTION ADD ROSTER ADD STATIC TEXT

FORM 1: CHARACTERISTICS OF AGRICULTURAL HOUSEHOLD /

Question type List

Variable name(?) hh\_members

Variable label(?) Household member names

Question text Household Member names

Maximum number of list elements 20

ADD INTERVIEWER INSTRUCTION

Enabling condition (?)

Validation condition (?)

Error message (?)

Form 1: Characteristics of agricultural household

AB Address of HH key\_text

Geo tag geo\_tag

AB Name of agricultural farmer hh\_name\_of\_farmer

12 Age of farmer farmer\_age

Household Member names hh\_members

Roster: HOUSEHOLD MEMBER ROSTER household\_characteristics

Relationship to HH relationship\_hh

What is the sex of the hh member? gender

Age of HH member age

FORM 1: CHARACTERISTICS OF AGRICULTURAL HOUSEHOLD /

Roster source List question

Roster variable name(?) household\_characteristics

Roster name Household member roster

Source question (answer determines both the number and the name of roster rows): FORM 1: CHARACTERISTICS OF AGRICULTURAL HOUSEHOLD Household Member names

Enabling condition (?)

# Trigger type: Number

**Form 1: Characteristics of agricultural household**

**Form 1: CHARACTERISTICS OF AGRICULTURAL HOUSEHOLD**

Roster source: **Numeric question** Roster variable name (?): **crop\_roster**

Roster name: **CROPS**

Source question for number of rows:

Select question

FORM 1: CHARACTERISTICS OF AGRICULTURAL HOUSEHOLD

**12** Age of farmer

**12** How many crops are grown in this field?

Enabling condition (?)

**12** How many crops are grown in this field?

**TRIGGER**

**SAVE** **CANCEL** **DELETE** **CLONE** **MOVE TO**

# Trigger type: Multi-select

The screenshot displays a survey creation interface. On the left, a sidebar titled "New Chapter" contains a list of questions. The first question, "Which crops are grown in this field?", is highlighted with a red oval and labeled "crops". A red arrow points from the word "TRIGGER" to this question. On the right, the "NEW CHAPTER /" form is shown. The "Question type" is set to "Categorical: Multi-select". The "Variable name(?)" is "crops". The "Variable label(?)" is "Crops grown in field". The "Question text" is "Which crops are grown in this field?". Below the question text, a table of options is shown, with a red oval highlighting the entire table. The table has three columns: an ID column, a text column, and a delete column (marked with a red 'X'). The options are: 103 Maize, 104 Rice, 105 Sorghum, 106 Cassava, and 107 Onion. Below the table, there are checkboxes for "Is linked" and "Record answer order", and a "Max number of answers" field. At the bottom, there are fields for "Enabling condition (?)" and "Validation condition (?)". The "SAVE" button is highlighted.

New Chapter

Which crops are grown in this field? crops

ADD QUESTION ADD SUB-SECTION ADD ROSTER ADD STATIC TEXT

NEW CHAPTER /

Question type

Categorical: Multi-select

Variable name(?)

crops

Variable label(?)

Crops grown in field

Question text

Which crops are grown in this field?

103	Maize	X
104	Rice	X
105	Sorghum	X
106	Cassava	X
107	Onion	X

ADD OPTION SHOW STRINGS

☐ Is linked ☐ Record answer order Max number of answers

ADD INTERVIEWER INSTRUCTION

Enabling condition (?)

Validation condition (?)

SAVE CANCEL DELETE CLONE MOVE TO

# Trigger type: Multi-select

**New Chapter**

Which crops are grown in this field? crops

Roster: **CROPS** crop\_roster

ADD QUESTION ADD SUB-SECTION ADD ROSTER ADD STATIC TEXT

**TRIGGER** →

NEW CHAPTER /

Roster source: Multi-select question

Roster variable name (?): crop\_roster

Roster name: CROPS

Source question (answer determines both the number and the name of roster rows):

Select question

NEW CHAPTER

Which crops are grown in this field?

SAVE CANCEL DELETE CLONE MOVE TO ▾



# Nesting rosters

- Essentially, a nested roster is a roster inside a roster.
- You create a nested roster the same way you create a roster. The difference is that the trigger will come from the roster one level up.
- Example:
  - First level: **Blocks** owned by Farmer
  - Second level: **Plots** inside a **block**
  - Third level: **Crops** in **plot**

# Nesting rosters

**Roster: IDENTIFICATION AND CHARACTERISTICS** *info\_agricultural\_blocks*

AB	Province of block	block_province
AB	N EA/ZD	block_eazd
☑	Date of survey	block_date
AB	District of farm	block_district
AB	Name of agricultural farmer	block_name_of_farmer
AB	Name of Enumerator	block_name_of_enumerator
AB	Farm Sector	block_sector
AB	What is the location and number of block?	block_locationandnumber
12	Block size in square meters	block_size
12	Access time from housing in minutes	block_accesstime_fromhh
⚙	Acquisition mode	block_acquisition_mode
⚙	Crop typology	block_crop_typology
⚙	Cultivation method	block_crop_cultivation_method
⚙	Main method of erosion control	block_method_erosion_control
12	How many fields are there in this block?	block_fields_teiger

**Roster: FIELD ROSTER FOR FIELD-LEVEL** *individual\_field\_roster*

AB	Province of field	field_province
AB	Field N EA/ZD	field_eazd
☑	Date and time of field survey	field_date_surveyed
AB	District of field	field_district
AB	Name of agricultural farmer - field	field_name_of_farmer
AB	Name of Enumerator - field	field_name_enumerator
AB	Farm sector - field	field_farm_sector
AB	Location and Number of Block	field_no_block
⚙	Field position	field_position
12	Area of the field (Ha)	field_size
⚙	Main purpose of the field	field_purpose
⚙	Please mark 5 main crops	field_fivecroplist

Level I

Level II

**Roster: FIELD ROSTER FOR FIELD-LEVEL** *individual\_field\_roster*

AB	Province of field	field_province
AB	Field N EA/ZD	field_eazd
☑	Date and time of field survey	field_date_surveyed
AB	District of field	field_district
AB	Name of agricultural farmer - field	field_name_of_farmer
AB	Name of Enumerator - field	field_name_enumerator
AB	Farm sector - field	field_farm_sector
AB	Location and Number of Block	field_no_block
⚙	Field position	field_position
12	Area of the field (Ha)	field_size
⚙	Main purpose of the field	field_purpose
⚙	Please mark 5 main crops	field_fivecroplist

**Roster: CROP ROSTER** *crop\_roster*

☑	Date of sowing	crop_date_sowing
☑	Did the sowing/planting take place	crop_sowingcurrentseason
12	Quantity of common seed used (in Kg)	crop_quantity_seed
12	Number of plants used	crop_quant_of_plants
12	Quantity of improved seed (in Kg)	crop_quant_improved_seed
⚙	Was manure of cattle applied?	crop_cow_manureapplied
⚙	Was manure of small livestock	crop_smalllives_manureapplied

Level III

# Formatting Text with HTML tags

# Formatting Text

- A few words about how to construct HTML tags
- Specific ones for text formatting
  - **Bold**
  - *Italics*
  - Underline
  - Color
  - Linebreaks

# HTML tags

- 2 types:
  - Pairs: There's a start and end indicating where you want the text modified.
    - `<tag> Some text </tag>` *"/" always tells us to stop!*
  - Empty: Has an immediate effect on where it occurs
    - `<tag>`
- Why useful in CAPI?
  - It's used to draw enumerator attention to certain things, or could draw attention to different languages.
  - We use simple ones.

# Basic tags for formatting

Effect	Tag	Example	Result
Bold	<code>&lt;strong&gt;&lt;/strong&gt;</code>	How tall is <code>&lt;strong&gt;Michael&lt;/strong&gt;</code> ?	How tall is <b>Michael</b> ?
Italics	<code>&lt;i&gt;&lt;/i&gt;</code>	Where was he <code>&lt;i&gt;born&lt;/i&gt;</code> ?	Where was he <i>born</i> ?
Underscore	<code>&lt;u&gt;&lt;/u&gt;</code>	Please list <code>&lt;u&gt;all&lt;/u&gt;</code> members in the household	Please list <u>all</u> members of the household

# Text color

- **Syntax**

`<font color="color">some text</font>`

- **Example:**

Title

```
<font color="blue">Blue</font>, <font color="green">Green</font>, <font color="red">Red</font>, and normal
```

Blue, Green, Red, and normal

# Empty tags: line break

- Line break: `<br>`
- Common use cases: the only way to introduce a blank line in question text

## Example 1: Interviewer instructions

404. What is the area of this parcel  
fff?

ENUMERATOR: Ask the farmer to  
estimate the area in **acres**.

Title

404. What is the area of this parcel %a402r%?  
<br><br>  
ENUMERATOR: Ask the farmer to estimate the area in <strong>acres</strong>.

## Example 2: Specify units

5a. How much Rice (paddy) came  
from purchases during the past 7  
days?

QUANTITY

Title

5a. How much %rosteritle% came from purchases during the past 7 days?  
<br> <br>  
QUANTITY



# Piping

***def: Auto-filling answer of some question into the text of another question***

# Piping: What and How?

- What is it?
  - Makes data appear in a question which can help make the interview flow better.
  - EXAMPLE: How old is **Michael**?
    - “**Michael**” is a name that appears in the household roster.
- How it works
  - Surround the element that you want to pipe in “%” in the designer.
  - EXAMPLE: How old is **%rosteritle%**.
    - “**%rosteritle%**” is where the name “Michael” is contained.

# Piping

New Chapter

Which crops are grown in this field? crops

Roster: CROPS crop\_roster

12 How much %rosteritle% was harvested on that harvested\_quantity

ADD QUESTIONADD SUB-SECTIONADD ROSTERADD STATIC TEXT

NEW CHAPTER / CROPS /

Question type

12 Numeric

Variable name(?)divharvested\_quantity

Variable label(?)divHarvested quantity

Question text

How much %rosteritle% was harvested on that day in kilos?

☒ IntegerRoster upper bound

ADD INTERVIEWER INSTRUCTION

Enabling condition (?)

Validation condition (?)

Error message (?)

☐ Mandatory questionQuestion scope

Interviewer

SAVE

CANCEL

DELETE

CLONE

MOVE TO ▾

# Questions?