XLSForm Cheat Sheet

Getting started

Create an Excel workbook with three sheets

where questions are defined survey where choice lists for select_one & select_multiple are defined choices settings where project options are defined

Survey sheet columns

type name label label:: /anguage hint hint:: /anguage constraint	sets the question type sets the question unique id (variable name) sets question/goup display text if using 1 language sets question/goup display text in defined language sets question hint text if using 1 language sets question hint text in defined language define responses to be allowed	geotrace geoshape image audio video note barcode acknowledge
constraint_messa	age message shown to user when response is not valid (if using 1	-
	language)	calculate
constraint_messa		range
	message shown to user when response is not valid (in defined language)	
required	whether a question is mandatory for the form to continue TRUE FALSE true() false() yes no a function that evaluates to TRUE or FALSE	Questio
required_messag		
	message displayed when required field was not answered (if using 1 language)	Go into the
required_messag		begin_group
	message displayed (in defined language) when required field was not answered	end_group
default	default response to be prefilled before user answers question	begin_repeat
relevant	condition to be fulfilled for the question to be displayed	end_repeat
read_only	whether a question's response can be edited	
···· ·	TRUE FALSE true() false() yes no a function that	
	evaluates to TRUE or FALSE	Questio
calculation	A mathematical expression whose result will be stored in the	- T
	current variable	Values ent
	Only for calculate question type	when defin
repeat_count	Number of repeats for a repeated group	question la
imaga	Only for begin repeat	¢(
image image /anguage	path to an image to be shown with a question (if 1 language) path to an image to be shown with a question in the defined	\${variat
inage:: language	language	
audio	path to audio to be included with a question (if 1 language)	
	path to audio to be included with a question in the defined	
5 5	language	
video	path to a video to be included with a question (if 1 language)	Questio
video:: language	path to a video to be included with a question in the defined	
	language	Go in the a
appearance	defines the way questions wil be displayed on the form	
instance::attribut	e include custom XML content for the data instance	Applies to be
bind:: attribute	include custom XML content for the bind attribute	field-list
body::attribute	include custom XML content in the body	table-list
instance::accurac	5	
	sets the minimum GPS accuracy level required to capture the	
	coordinates automtically	Applies to sel
parameters	available options for some question types	minimal label

Question types

Go into the type column of the survey sheet

select_one *choices*

question with a list of choices where user can only pick 1 **choices** -> name of choice list (defined in choices sheet)

select_multiple choices

question with a list of choices where user can only pick 1 or more choices

select_one_from_file file

User can choose one of several choices from an external file

select_multiple_from_file file

	User can choose one or more of several choices from an external file
text	response will be typed as text
integer	response will be whole numbers without decimals
decimal	response will be numbers with decimals allowed
date	response will be date
time	response will be time of day (hours and minutes)
dateTime	response qill be date and time together
geopoint	for capturing GS coordinates
geotrace	for capturing line or polyline using GPS coordinates
geoshape	for capturing a polygon using GPS coordinates
image	for capturing or attaching a picture
audio	for capturing or attaching an audio file
video	for capturing or attaching a video file
note	for displaying a note (text on the screen). Does not take input
barcode	for capturing a barcode or qr code by scanning it
acknowledge	displays 1 checkmark for confirming or acknowledging somehing
calculate	mathematical expression of existing values
range	displays range slider. Values saved as integer/decimal state start, end and step in parameters column e.g. start=1;end=10;step=1

Question groups and repeats

Go into the type column of the survey sheet

marks the beginning of a group of questions marks where group o questions ends marks the beginning of a repeat group begin repeat marks where the repeat group ends

Question referencing

Values entered on preceding questions can be used on another question when defining skip logic, validation criteria, calculations or displayed on question labels and hints. Use the following format:

\${variable_name}

Question appearance

Go in the appearance column in the survey sheet

Applies to begin-group

field-list puts multiple questions of a group on a screen table-list shows multiple select_one questions with shared label in a field-list

Applies to selec	t_one or select_multiple
minimal	shows choices as a drop-down list
label	shows only a table of choices without controls
list-nolabel	shows only controls (radio buttons) without the labels
autocomplete	shows list of options with a search box for filtering choices
likert	shows options as a likert widget
horizontal	shows choices as a horizontal list
compact	displays choices horizontally as compact as possible
compact- <i>n</i>	shows choices in a grid with n columns where n is a number
	between 1 and 10
quick	automatically moves to the next queston when answered
quickcompact	displays choices horizontally in a compact manner and auto-
	advances to next question ghen option selected
image-map	When used in conjunction with an SVG media label, the select
	question will be presented as a clickable image.

Applies to text numbers multiline

multime	uispiu
url	shows
printer	for inte
thousands-sep	adds t
-	subm

Applies to integer thousand-sep

submission

Applies to decimal

bearing

Applies to range

displays
hides tid
displays
displays
displays

Applies to date

month-year year

Applies to date and dateTime no-calendar ethiopian

islamic	display
coptic	display

Applies to image

new	1016636
	select p
new-front	forces o
new-rear	forces o
annotate	allows
draw	allows
	an imc
signature	allows
	image

Applies to audio, video new

Applies to geopoint, geo	
maps	capture
hide-input	shows I
streets	switche
	•

terrain	switche
satellite	switche
placement_map	allows

Choices sheet columns

Go in the choices sheet

list_name	unique
	list will
name	ID (nan
label	display
label:: language	display
media	path to
media:;language	path to
	langua
ett	

filter-category-name

defined by user. allowaa setting parent category for choice filters in cascading questions



shows number keyboard on screen. Values stored as text displays a larger text field on web forms s button to launch a website to stored URL erfacing with an external (Zebra barcode) printer

thousands separator (comma or dot). Not saved on submission

adds thousands separator (comma or dot). Not saved on

shows compass/bearing widget thousands-sep adds thousands separator (comma or dot). Not saved on submission

> s vertical range slider instead of deault horizontal ick-marks on the range slider s the range as a star rating /s range in a pop-up picker instead of sider /s thermometer around range slider

only displays month and year on date picker only displays year on date picker

disables calendar-type date picker for old a spinner type

- displays Ethiopian calendar
 - ys Islamic calendar
 - ys coptic calendar

forces capturing of new photo using deault camera (disables photo feature)

- capturing of new photo using front (selfie) camera capturing of new photo using rear camera
- drawing on top of image after capturing it drawing anything on the screen instead of capturing
- drawing signaure ona line instead of capturing an

forces capturing of new audio or video with default mic/ camera (disables select video/audio feature)

otrace, geoshape

res GPS while showing the point on a Google map

- map and hides geo input buttons
- es map layer to street mode es map layer to terrain mode
- es map layer to satellite mode

user to record location by pointing it on the map

name for each set of choices. All choices in the same I have the same list_name

- me) of the specific choice
- text of the choice
- / text of the choice in the defined language
- image to be associated with choice (if 1 language) o image to be associated with choice in defined

Settings sheet columns

Go in the settings sheet

form_title	Title displayed at the top of the form
form_id	unique ID of the form
public_key	key required for encrypted forms
submission_url	Specific URL for uploading data, overrides default
default_language	e language to be loaded by default (f multiple lanuages were
	defined
style	switch to a different form display theme
-	pages theme-grid theme-formhub
version	form version ID
instance_name	Allows user to create a dynamic naming convention for each submitted instance

Mathematical operators

Use in calculate, constraint and relevant columns

+	performs ddtion
-	performs subtraction
*	performs multiplication
div	performs division
mod	calculates remainder after division

Logical operators and booleans

Use in calculate, constraint and relevant columns

_	actual to
-	equal to
!=	not equal to
>	greater than
>=	greater than or equal to
<	less than
<=	less than or equal to
and	evauates TRUE if both expressions are TRUE
or	evauates TRUE if either one of the expressions are TRUE

Path operators

Use in calculate, constraint and relevant columns

refers to the current question's value refers to current question's parent group

Matching values in select_one and select_multiple

In constraints or relevant, you can easily match a value from a select one as follows:

\${variable_name}=value

When matching select_multiple however, use the selected() function

selected(\${variable_name}, 'value')

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Adapted from xlsform.org and docs.getodk.org