# Package 'HighFrequencyChecks'

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Type Package
Title High Frequency Checks
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Author Yannick Pascaud
Maintainer Yannick Pascaud <pre><pre></pre></pre>
<b>Depends</b> R (>= $2.10$ )
Description This package groups the functions used to perform the High Frequency checks during the data collection. These are usual functions to be ran periodically during the data collection process to check for possible errors and provide meaningful inputs to the enumerators. All these functions do not have to be ran at the same period of time. They are provided there to help you to build a report.
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Encoding UTF-8
LazyData true
Imports dplyr,  sp, rgdal, rgeos, geosphere, stringi, data.table, lazyeval, plotly, outliers, gsubfn
Suggests knitr, rmarkdown
VignetteBuilder knitr
R topics documented:  admin
chk1b_survey_consent

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 $\operatorname{admin}$ 

boundary dataset to be used as an example

### Description

This dataset contains the boudaries for the Unions in both Ukhia and Teknaf.

### Usage

sample\_dataset

### **Format**

spatial dataset

```
chk1a_interview_completed
```

Check that all interviews were completed

#### **Description**

This function check that all interviews in the dataset are completed, meaning all the interviews have an end date and time. There is an option to automatically mark for deletion the surveys which have not an end date.

### Usage

#### **Arguments**

ds	dataset as a data.frame object
survey_consent	name as a string of the field in the dataset where the survey consent is stored
dates	fields as a list of string where the survey start and end date is stored (c('start_date','end_date'))
reportingcol	columns as a list of string name from the dataset you want in the result (c('col1','col2',))
delete	delete action to be done as a boolean (TRUE/FALSE)

### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

### Author(s)

Yannick Pascaud

```
df<-sample_dataset
sc<-"survey_consent"
dt<-c("survey_start","end_survey")
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk1a_interview_completed(df, sc, dt, rc, dl)</pre>
```

### Description

This function check that all interviews in the dataset have information about the consent of the people surveyed, meaning all the field where this information is stored is not empty. There is an option to automatically mark for deletion the surveys which have not consent information.

### Usage

### **Arguments**

ds dataset as a data.frame object
survey\_consent name as a string of the field in the dataset where the survey consent is stored
reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))
delete delete action to be done as a boolean (TRUE/FALSE)

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

### Author(s)

Yannick Pascaud

```
df<-sample_dataset
sc<-"survey_consent"
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk1b_survey_consent(df, sc, rc, dl)</pre>
```

chk1dii\_GIS\_Xm 5

chk1dii_GIS_Xm check if the surveys fall within Xm re	udius of a sampled point
-------------------------------------------------------	--------------------------

### **Description**

This function check that all interviews in the dataset were made within a distance from a sampled point. It is based on a GIS shapefile providing the sample points for the assessment. The function is based on the GPS data filled in the survey to determine their location. There is an option to automatically mark for deletion the surveys which are to far away from a sampled point.

#### Usage

#### **Arguments**

pts dataset containing the shapefile ds dataset as a data.frame object

ds\_coord columns as a list of string name from the dataset where the GPS coordinates are

stored (c('Long','Lat'))

buff value as an integer in meter to determine the buffer from a sampled point which

is acceptable

survey\_consent name as a string of the field in the dataset where the survey consent is stored

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

delete delete action to be done as a boolean (TRUE/FALSE)

### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

#### Warning

Regardless the projection used for the shapefile, it is transformed to WGS84

### Note

One internal function "make\_GeodesicBuffer" used to create the buffers is created by Valentin https://stackoverflow.com/users/5193830/valentin

#### Author(s)

6 chk1di\_GIS\_site

#### **Examples**

```
pts<-SamplePts
df<-sample_dataset
df_coord<-c("X_gps_reading_longitude","X_gps_reading_latitude")
bu<-10
sc<-"survey_consent"
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk1dii_GIS_Xm(pts, df, df_coord, bu, sc, rc, dl)</pre>
```

chk1di\_GIS\_site

Check if the surveys are made in the correct site

### **Description**

This function check that all interviews in the dataset were made in the correct site. It is based on a GIS shapefile providing the boundaries of each site with their names. The function is based on the GPS data filled in the survey to determine their location. There is an option to automatically correct the site in the surveys whith the correct location.

#### Usage

#### **Arguments**

adm dataset containing the shapefile ds dataset as a data.frame object

ds\_site name as a string of the field in the dataset where the site is stored

ds\_coord columns as a list of string name from the dataset where the GPS coordinates are

stored (c('Long','Lat'))

adm\_site name as a string of the field in the shapefile where the site is stored

survey\_consent name as a string of the field in the dataset where the survey consent is stored

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

correct correction action to be done as a boolean (TRUE/FALSE)

### Value

ds same dataset as the inputed one but with the site in the surveys corrected if errors

are found and correct=TRUE

errors list of the errors found

chk2a\_missing\_id 7

#### Warning

Regardless the projection used for the shapefile, it is transformed to WGS84

#### Author(s)

Yannick Pascaud

#### **Examples**

```
admin<-admin
df<-sample_dataset
df_site<-"union_name"
df_coord<-c("X_gps_reading_longitude","X_gps_reading_latitude")
admin_site<-"Union"
sc<-"survey_consent"
rc<-c("enumerator_id","X_uuid")
co<-FALSE
chk1di_GIS_site(admin, df, df_site, df_coord, admin_site, sc, rc, co)</pre>
```

chk2a\_missing\_id

Check that all interviews have an ID

#### **Description**

This function check that all interviews in the dataset have an ID. There is an option to automatically mark for deletion the surveys which have not an ID.

#### Usage

#### **Arguments**

ds dataset as a data.frame object

UniqueID name as a string of the field in the dataset where the unique ID is stored survey\_consent name as a string of the field in the dataset where the survey consent is stored

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

delete action to be done as a boolean (TRUE/FALSE)

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

8 chk2b\_unique\_id

#### Author(s)

Yannick Pascaud

#### **Examples**

```
df<-sample_dataset
uuid<-"X_uuid"
sc<-"survey_consent"
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk2a_missing_id(df, uuid, sc, rc, dl)</pre>
```

chk2b\_unique\_id

check for duplicates in unique ID

#### **Description**

This function check that all interviews in the dataset have an ID which is unique. There is an option to automatically mark for deletion the surveys which have a duplicated unique ID.

### Usage

#### **Arguments**

ds dataset as a data.frame object

UniqueID name as a string of the field in the dataset where the unique ID is stored

survey\_consent name as a string of the field in the dataset where the survey consent is stored

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

delete action to be done as a boolean (TRUE/FALSE)

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

### Author(s)

chk3a\_date\_mistake 9

#### **Examples**

```
df<-sample_dataset
uuid<-"X_uuid"
sc<-"survey_consent"
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk2b_unique_id(df, uuid, sc, rc, dl)</pre>
```

chk3a\_date\_mistake

Check for surveys that do not end on the same day as they started

#### **Description**

This function check that all interviews in the dataset start and end the same day. There is an option to automatically mark for deletion the surveys which have different starting and ending dates.

### Usage

#### **Arguments**

ds dataset as a data.frame object

survey\_consent name as a string of the field in the dataset where the survey consent is stored

fields as a list of string where the survey start and end date is stored (c('start\_date','end\_date'))
reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

delete action to be done as a boolean (TRUE/FALSE)

### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

#### Author(s)

Yannick Pascaud

```
df<-sample_dataset
sc<-"survey_consent"
dt<-c("survey_start","end_survey")
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk3a_date_mistake(df, sc, dt, rc, dl)</pre>
```

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chk3b\_date\_mistake

Check for surveys where end date/time is before the start date/time

#### **Description**

This function check that all interviews in the dataset start before they end. There is an option to automatically mark for deletion the surveys which have an ending date/time before the starting ones.

### Usage

### **Arguments**

ds dataset as a data.frame object

survey\_consent name as a string of the field in the dataset where the survey consent is stored

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

delete action to be done as a boolean (TRUE/FALSE)

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

### Author(s)

Yannick Pascaud

```
df<-sample_dataset
sc<-"survey_consent"
dt<-c("survey_start","end_survey")
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk3b_date_mistake(df, sc, dt, rc, dl)</pre>
```

chk3c\_date\_mistake 11

chk3c_date_mistake	Check for surveys that show start date earlier than first day of data
	collection

### Description

This function check that all interviews in the dataset start after the actual first day of data collection. There is an option to automatically mark for deletion the surveys which have started before the first day of data collection.

### Usage

#### **Arguments**

```
dataset as a data.frame object

survey_consent

name as a string of the field in the dataset where the survey consent is stored

dates fields as a list of string where the survey start and end date is stored (c('start_date','end_date'))

start_collection

date as a string of the first day of data collection ('yyyy-mm-dd')

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

delete delete action to be done as a boolean (TRUE/FALSE)
```

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

#### Author(s)

Yannick Pascaud

```
df<-sample_dataset
sc<-"survey_consent"
dt<-c("survey_start","end_survey")
st<-"2018-11-11"
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk3c_date_mistake(df, sc, dt, st, rc, dl)</pre>
```

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chk3d\_date\_mistake

Check for surveys that have start date/time after system date

#### **Description**

This function check that all interviews in the dataset do not start after the current date. There is an option to automatically mark for deletion the surveys which have a start date in the future.

### Usage

### **Arguments**

dataset as a data.frame object
survey\_consent
name as a string of the field in the dataset where the survey consent is stored
fields as a list of string where the survey start and end date is stored (c('start\_date','end\_date'))
reportingcol
columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

delete delete action to be done as a boolean (TRUE/FALSE)

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

### Author(s)

Yannick Pascaud

```
df<-sample_dataset
sc<-"survey_consent"
dt<-c("survey_start","end_survey")
rc<-c("enumerator_id","X_uuid")
dl<-FALSE
chk3d_date_mistake(df, sc, dt, rc, dl)</pre>
```

chk4aiii\_missing\_pct 13

chk4aiii\_missing\_pct Report the percentage of missing values (NA) per fields

#### **Description**

This function provide a report showing the percentage of missing values (NA) for each fields. This report can be global (all the surveys) or displayed for each enumerator ID

### Usage

#### **Arguments**

ds dataset as a data.frame object

enumeratorID name as a string of the field in the dataset where the enumerator ID is stored

enumeratorcheck

specify if the report has to be displayed for each enumerator or not as a boolean (TRUE/FALSE)

#### Value

logf the report

#### Author(s)

Yannick Pascaud

### **Examples**

```
df<-sample_dataset
eid<-"enumerator_id"
ec<-FALSE
chk4aiii_missing_pct(df, eid, ec)</pre>
```

```
chk4bii_distinct_values
```

Report the number of distinct values per fields

### Description

This function provide a report showing the number of distinct values for each fields. This report can be global (all the surveys) or displayed for each enumerator ID

#### **Usage**

#### **Arguments**

ds dataset as a data.frame object

enumeratorID name as a string of the field in the dataset where the enumerator ID is stored enumeratorcheck

specify if the report has to be displayed for each enumerator or not as a boolean

(TRUE/FALSE)

#### Value

logf the report

#### Author(s)

Yannick Pascaud

#### **Examples**

```
df<-sample_dataset
eid<-"enumerator_id"
ec<-FALSE
chk4bii_distinct_values(df, eid, ec)</pre>
```

chk4biv\_others\_values Report the values for other responses per fields

### **Description**

This function provide a report showing all distinct other values and the number of occurences for each fields "other". This report can be global (all the surveys) or displayed for each enumerator ID

#### Usage

### Arguments

ds dataset as a data.frame object

otherpattern pattern as string to identify the fields containing others values ('\_other\$') enumeratorID name as a string of the field in the dataset where the enumerator ID is stored

enumeratorcheck

specify if the report has to be displayed for each enumerator or not as a boolean

(TRUE/FALSE)

chk4d\_outliers 15

#### Value

logf the report

#### Author(s)

Yannick Pascaud

#### **Examples**

```
df<-sample_dataset
op<-"_other$"
eid<-"enumerator_id"
ec<-FALSE
chk4biv_others_values(df, op, eid, ec)</pre>
```

chk4d\_outliers

Report the outlier values for all numerical fields

### Description

This function provide a report showing all outlier values for each numerical fields. The function will try to automatically determine the type of distribution (between Normal and Log-Normal) based on the difference between mean and median between untransformed normalized and log transformed normalized distribution.

#### Usage

#### **Arguments**

ds dataset as a data.frame object

sdval number of standard deviation for which the data within is considered as accept-

able

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

enumeratorID name as a string of the field in the dataset where the enumerator ID is stored

(NOT USED: use the reportingcol instead)

enumeratorcheck

specify if the report has to be displayed for each enumerator or not as a boolean

(TRUE/FALSE) (NOT USED: use the reportingcol instead)

### Value

logf the report

#### Author(s)

Yannick Pascaud

#### **Examples**

```
df<-sample_dataset
sdv<-2
rc<-c("enumerator_id","X_uuid")
eid<-"enumerator_id"
ec<-FALSE
chk4d_outliers(df, sdv, rc , eid, ec)</pre>
```

chk4e\_values\_greater\_X

Report the values greater than a specified value per specified fields

#### **Description**

This function provide a report showing all values which are greater than a certain threshold for a specified list of fields.

### Usage

#### **Arguments**

ds dataset as a data.frame object

questions columns as a list of string name from the dataset you want to check against

(c('col1','col2',...))

value maximum acceptable value as integer for the checked fields

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

 $\hbox{enumeratorID} \qquad \hbox{name as a string of the field in the dataset where the enumerator ID is stored}$ 

(NOT USED: use the reportingcol instead)

enumeratorcheck

specify if the report has to be displayed for each enumerator or not as a boolean

(TRUE/FALSE) (NOT USED: use the reportingcol instead)

#### Value

logf the report

#### Author(s)

chk5a\_duration 17

#### **Examples**

```
df<-sample_dataset
qu<-c("consent_received.food_security.spend_food",</pre>
      "consent_received.food_security.spend_medication",
      "consent_received.food_security.spend_education",
      "consent_received.food_security.spend_fix_shelter",
      "consent_received.food_security.spend_clothing",
      "consent_received.food_security.spend_hygiene",
      "consent_received.food_security.spend_fuel",
      "consent_received.food_security.spend_hh_items",
      "consent_received.food_security.spend_transport",
      "consent_received.food_security.spend_communication",
      "consent_received.food_security.spend_tobacco",
      "consent_received.food_security.spend_rent",
      "consent_received.food_security.spend_debts",
      "consent_received.food_security.spend_other")
rc<-c("enumerator_id","X_uuid")</pre>
eid<-"enumerator_id"
ec<-FALSE
chk4e_values_greater_X(df, qu, v, rc, eid, ec)
```

chk5a\_duration

Compute the average and total time for the surveys

#### **Description**

This function compute the average and total time for the surveys

### Usage

#### **Arguments**

ds dataset as a data.frame object

dates fields as a list of string where the survey start and end date is stored (c('start\_date','end\_date'))

#### Value

avg average time per survey

tot total time

### Warning

If there are uncorrected mistakes in the survey dates, it can lead to have the length of the survey in seconds and this check will not performed well

#### Author(s)

#### **Examples**

```
df<-sample_dataset
dt<-c("survey_start","end_survey")
chk5a_duration(df, dt)</pre>
```

chk5b\_duration\_Xmin

Check that the duration of each interview is more than a threshold

#### **Description**

This function check that the duration of each interview is more than a specified threshold. There is an option to automatically mark for deletion the surveys which are under the threshold.

### Usage

#### **Arguments**

ds dataset as a data.frame object

survey\_consent name as a string of the field in the dataset where the survey consent is stored

fields as a list of string where the survey start and end date is stored (c('start\_date','end\_date'))
reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

minduration minimum acceptable survey duration as integer

delete delete action to be done as a boolean (TRUE/FALSE)

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

#### Warning

If there are uncorrected mistakes in the survey dates, it can lead to have the length of the survey in seconds and this check will not performed well

### Author(s)

#### **Examples**

```
df<-sample_dataset
sc<-"survey_consent"
dt<-c("survey_start","end_survey")
rc<-c("enumerator_id","X_uuid")
md<-30
dl<-FALSE
chk5b_duration_Xmin(df, sc, dt, rc, md, dl)</pre>
```

chk5c\_duration\_Xmin\_HHSize

Check that the duration relative to the household size of each interview is more than a threshold

#### **Description**

This function check that the duration relative to the household size of each interview is more than a specified threshold. There is an option to automatically mark for deletion the surveys which are under the threshold.

### Usage

### Arguments

ds

survey\_consent name as a string of the field in the dataset where the survey consent is stored dates fields as a list of string where the survey start and end date is stored (c('start\_date','end\_date'))

HHSize name as a string of the field in the dataset where the household size is stored

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

minduration minimum acceptable survey duration as integer delete action to be done as a boolean (TRUE/FALSE)

dataset as a data.frame object

#### Value

ds same dataset as the inputed one but with survey marked for deletion if errors are

found and delete=TRUE

errors list of the errors found

#### Warning

If there are uncorrected mistakes in the survey dates, it can lead to have the length of the survey in seconds and this check will not performed well

#### Author(s)

Yannick Pascaud

#### **Examples**

```
df<-sample_dataset
sc<-"survey_consent"
dt<-c("survey_start","end_survey")
hs<-"consent_received.respondent_info.hh_size"
rc<-c("enumerator_id","X_uuid")
md<-10
dl<-FALSE
chk5c_duration_Xmin_HHSize(df, sc, dt, hs, rc, md, dl)</pre>
```

chk5d\_duration\_outliers

Report the outlier durations for the surveys

#### **Description**

This function report the outlier durations for the surveys

#### Usage

#### **Arguments**

ds dataset as a data.frame object

dates fields as a list of string where the survey start and end date is stored (c('start\_date','end\_date'))

sdval number of standard deviation for which the duration within is considered as

acceptable

reportingcol columns as a list of string name from the dataset you want in the result (c('col1','col2',...))

#### Value

logf the report

#### Warning

If there are uncorrected mistakes in the survey dates, it can lead to have the length of the survey in seconds and this check will not performed well

### Author(s)

chk6a\_refusal 21

### **Examples**

```
df<-sample_dataset
dt<-c("survey_start","end_survey")
sdv<-2
rc<-c("enumerator_id","X_uuid")
chk5d_duration_outliers(df, dt, sdv, rc)</pre>
```

chk6a\_refusal

Check the percentage of survey refusals by enumerator

### Description

This function display the percentage of survey refusal per enumerator.

#### Usage

### Arguments

ds dataset as a data.frame object
survey\_consent name as a string of the field in the dataset where the survey consent is stored
enumeratorID name as a string of the field in the dataset where the enumerator ID is stored

### Value

logf the report

#### Author(s)

Yannick Pascaud

```
df<-sample_dataset
sc<-"survey_consent"
eid<-"enumerator_id"
chk6a_refusal(df, sc, eid)</pre>
```

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chk6b_duration Check the average interview duration by enumerator
-------------------------------------------------------------------

#### **Description**

This function display the average interview duration per enumerator.

### Usage

### **Arguments**

ds dataset as a data.frame object

dates fields as a list of string where the survey start and end date is stored (c('start\_date','end\_date'))

enumeratorID name as a string of the field in the dataset where the enumerator ID is stored

#### Value

logf the report

### Author(s)

Yannick Pascaud

### **Examples**

```
df<-sample_dataset
dt<-c("survey_start","end_survey")
eid<-"enumerator_id"
chk6b_duration(df, dt, eid)</pre>
```

chk6c\_nb\_survey

Check the number of surveys by enumerator

#### **Description**

This function display the total number of survey made and the average per day per enumerator.

### Usage

chk6f\_productivity 23

### **Arguments**

ds dataset as a data.frame object

surveydate name as a string of the field in the dataset where the date of the survey is stored enumeratorID name as a string of the field in the dataset where the enumerator ID is stored

Value

logf the report

#### Author(s)

Yannick Pascaud

### **Examples**

```
df<-sample_dataset
sdte<-"survey_date"
eid<-"enumerator_id"
chk6c_nb_survey(df, sdte, eid)</pre>
```

chk6f\_productivity

Check the surveyors with very low or high productivity

### Description

This function display the surveyors with very low or high productivity.

#### Usage

### **Arguments**

ds dataset as a data.frame object

enumeratorID name as a string of the field in the dataset where the enumerator ID is stored surveydate name as a string of the field in the dataset where the date of the survey is stored sdval number of standard deviation for which the duration within is considered as

normal

#### Value

logf the report

#### Author(s)

#### **Examples**

```
df<-sample_dataset
eid<-"enumerator_id"
sdte<-"survey_date"
sdv<-2
chk6f_productivity(df, eid, sdte, sdv)</pre>
```

```
chk6g_question_less_X_answers
```

Check the enumerators who pick up less than X answers per specific question

#### **Description**

This function display the surveyors who picked up less than a specified amount of answers per specific question.

#### Usage

### **Arguments**

ds dataset as a data.frame object

enumeratorID name as a string of the field in the dataset where the enumerator ID is stored questions columns as a list of string name from the dataset you want to check against

(c('col1','col2',...))

minnbanswers minimum anumber of answers expected per question

### Value

logf the report

#### Author(s)

Yannick Pascaud

```
chk7aii_productivity_hist
```

Overall productivity histogram

### **Description**

This function create an histogram showing the overall productivity per consent status per day.

#### Usage

### Arguments

ds dataset as a data.frame object

surveydate name as a string of the field in the dataset where the date of the survey is stored

dateformat format as a string used for the date ('%m/%d/%Y')

survey\_consent name as a string of the field in the dataset where the survey consent is stored

#### Value

graph the graphic as a plot.ly object

### Author(s)

Yannick Pascaud

### **Examples**

```
df<-sample_dataset
sdte<-"survey_date"
dtf<-"%m/%d/%Y"
sc<-"survey_consent"
chk7aii_productivity_hist(df, sdte, dtf, sc)</pre>
```

chk7ai\_productivity

Summary of daily average productivity

### Description

This function display the number of surveys conducted per day.

26 chk7bii\_tracking

#### Usage

### **Arguments**

ds dataset as a data.frame object

surveydate name as a string of the field in the dataset where the date of the survey is stored

dateformat format as a string used for the date ('%m/%d/%Y')

survey\_consent name as a string of the field in the dataset where the survey consent is stored

### Value

logf the report

#### Author(s)

Yannick Pascaud

### **Examples**

```
df<-sample_dataset
sdte<-"survey_date"
dtf<-"%m/%d/%Y"
sc<-"survey_consent"
chk7ai_productivity(df, sdte, dtf, sc)</pre>
```

chk7bii\_tracking

Overall tracking sheet

### Description

This function display the overall tracking sheet.

### Usage

chk7bi\_nb\_status 27

#### **Arguments**

ds	dataset as a data.frame object
sf	sampling frame as a data.frame object
dssite	name as a string of the field in the dataset where the site is stored
sfsite	name as a string of the field in the sampling frame where the site is stored
survcons	name as a string of the field in the dataset where the survey consent is stored
sftarget	name as a string of the field where the target number of survey is stored in the sampling frame
sfnbpts	name as a string of the field where the number of points generated is stored in the sampling frame
formul	formulas as a list of string used to compute the final number of eligible surveys and the variance from the target (C('formula1','formula2')). the values/fields available are: done and the ones generated according the survey consent values (one per value)
colorder	column names as a list of string to order the colums in the result (C('col1','col2',)). the columns available are: site, done, final, variance and the ones generated ac-

cording the survey consent values (one per value)

#### Value

logf the report

### Author(s)

Yannick Pascaud

### **Examples**

```
df=sample_dataset
sf=SampleSize
dssite="union_name"
sfsite="Union"
sc="survey_consent"
sftarget="SS"
sfnbpts="TotPts"
#formul=c("done-no-not_eligible-deleted","done-no-not_eligible-deleted-SS")
#colorder=c("site","SS","Provision","done","not_eligible","no","deleted","yes","final","variance")
formul=c("done-no-not_eligible","done-no-not_eligible-SS")
colorder=c("site","SS","TotPts","done","not_eligible","no","yes","final","variance")
chk7bii_tracking(df, sf, dssite, sfsite, sc, sftarget, sfnbpts, formul, colorder)
```

chk7bi\_nb\_status

Daily number of survey per consent status

### **Description**

This function display the number of surveys conducted per day per constent status.

28 SamplePts

### Usage

### **Arguments**

ds dataset as a data.frame object

surveydate name as a string of the field in the dataset where the date of the survey is stored

dateformat format as a string used for the date ('%m/%d/%Y')

survey\_consent name as a string of the field in the dataset where the survey consent is stored

#### Value

logf the report

#### Author(s)

Yannick Pascaud

### **Examples**

```
df<-sample_dataset
sdte<-"survey_date"
dtf<-"%m/%d/%Y"
sc<-"survey_consent"
chk7bi_nb_status(df, sdte, dtf, sc)</pre>
```

SamplePts

points sampled to be surveyed dataset to be used as an example

### Description

This dataset is a sample of the points to be surveyed in both Ukhia and Teknaf.

For privacy purpose, the GPS coordinates are faked but are still located in the designated areas.

### Usage

```
sample\_dataset
```

#### **Format**

spatial dataset

SampleSize 29

se sample size used
---------------------

### **Description**

This dataset comes from the Host Community Multi Sector Needs Assessment conducted in 2018 by IMPACT/REACH on behalf of the ISCG and funded by ECHO. This is the sample size per union used in both Ukhia and Teknaf.

#### Usage

sample\_dataset

#### **Format**

A data frame with 11 observations on 7 variables.

sample_dataset	household dataset to be used as an example	
----------------	--------------------------------------------	--

#### **Description**

This dataset comes from the Host Community Multi Sector Needs Assessment conducted in 2018 by IMPACT/REACH on behalf of the ISCG and funded by ECHO. This is a sample of the data collected in both Ukhia and Teknaf.

For privacy purpose, the GPS coordinates are faked but are still located in the designated areas.

### Usage

sample\_dataset

#### **Format**

A data frame with 498 observations on 587 variables.

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