

From Data Collection, management to Storytelling:

An Interactive Workshop on ODK and R-Studio

SCCS-2023
Saneesh C S

Objectives

Understand the Importance of Error-Free Data Collection

Manage Data with Google Sheets and Kobo server

Introduction to Data Analysis with R & RStudio

ODK

ODK/Kobo Collect is an open source Android app that replaces paper forms used in survey-based data gathering. It supports a wide range of question and answer types, and is designed to work well without network connectivity.

It renders forms into a sequence of input prompts that apply form logic, entry constraints, and repeating sub-structures. Users work through the prompts and can save the submission at any point. Finalized submissions can be sent to (and new forms downloaded from) a server.

Collect supports location, audio, images, video, barcodes, signatures, multiple-choice, free text, and numeric answers.

This is how I used ‘Collect’



ORIGINAL ARTICLE

| Open Access



Enhancing ecosystem services through collaborative grass removal and fire exclusion in the Eastern Ghats

Saneesh Cherapurath Soman Paradesi Anjaneyulu, Midigesi Anil Kumar, Himani Sharma, Boyina Ravi Prasad Rao, Emma Ladouceur, Tiffany M. Knight

First published: 05 October 2023 | <https://doi.org/10.1111/btp.13269>

Data collection was done using the ‘collect’ tool in the Open Data Kit (ODK) (Hartung et al., 2010) and transferred to Google Sheets. ODK reduced the errors of input during data collection in the field and saved time from entering data manually. Maps for planning the study and for this article were prepared using QGIS (QGIS Development Team, 2022). All

Let us see the questionnaire (Follow steps in slide 12, file= ‘Plant study.xlsx’)



09:40 75%

Sapling_rev...

> 26 > plants in the plot

* Root Collar Diameter (cm)

1.6



 Topics More Categories Announcements Community Support Ideas Development All categories Tags odk-collect odk-xlsform odk-aggregate

Collect will stop connecting to Google Drive/Sheets in Fall 2023

 Support  breaking-changeyanokwa  Core Team1  Jan 9

In Fall 2023, we will remove Google Drive/Sheets functionality from ODK Collect. Users will no longer be able to download blank forms directly from Google Drive or send completed forms directly to Google Sheets. We are making this change to enable us to move faster on features that serve more users.

We believe most people use Google Drive/Sheets because they see it as reducing the financial and technical cost for organizations to use ODK. But because Google Drive/Sheets were not designed to be a replacement for an ODK server, the user experience is not intuitive or reliable. We know that projects using Google Drive/Sheets are unable to use ODK to its full potential and we believe they will be best served by using a server designed for use with Collect.

In the last 12 months, Google Drive/Sheets was used for 6.1% of submissions sent from Collect. Roughly 5.2% of our user base used it. We believe that with sufficient warning, these users will be able to migrate to [ODK Cloud](#) 148, [self-host Central](#) 115, or use an ODK-compatible server.

If you use Collect to connect to Google Drive/Sheets, we recommend the following actions:

We are going to make a form

Spreadsheet **.xlsx**

Extensible Markup Language (XML) **.xml**

Test it

ODK/KOBO application in Android

Fill and send to server.

Share data from the server to a Google **Sheet**

Google Sheet to **RStudio**

A screenshot of Microsoft Excel showing a survey form template. The ribbon is visible at the top with tabs like File, Home, Insert, Draw, Page Layout, Formulas, Data, and Review. The Home tab is selected. The clipboard section shows options for Cut, Copy, Paste, and Format Painter. The font section includes Calibri, size 11, bold, italic, underline, and alignment tools. The table below has columns A, B, C, and D. Row 1 contains headers: type, name, label. Row 2 contains data: text, name, Your name. The sheet is named 'survey'.

	A	B	C	D
1	type	name	label	
2	text	name	Your name	
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				

Let us make our first form

Column names. Do not change.

Change, depending on the **types**
(more in folder slide 30)

1. Save this excel form as .xls format with a meaningful name
2. Use the following link to upload the form and test it

Name of
the sheet

<https://getodk.org/xlsform/>

Test: Link 1

A screenshot of Microsoft Excel showing a survey form in a spreadsheet. The spreadsheet has three columns: 'type' (A), 'name' (B), and 'label' (C). Row 1 contains the column headers. Row 2 contains 'text' under 'type', 'name' under 'name', and 'Your name' under 'label'. Row 3 contains 'select_one' under 'type', 'yesno' under 'name', and 'Were you bitten by a mosquito yesterday?' under 'label'. The 'name' column (B) is highlighted in yellow. The 'survey' tab is selected at the bottom.

	A	B	C
1	type	name	label
2	text	name	Your name
3	select_one	yesno	Were you bitten by a mosquito yesterday?
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

Copy the entry from
'name' column.

Adding more 'type's in the survey

Name of
the sheet

File Home Insert Draw Page Layout Form

Cut Copy Format Painter Clipboard

G11 A B C D E

	list_name	name	label
1	yesno	yes	Yes
2	yesno	no	No
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			

survey choices +

Ready

Name of the sheet

Paste the entry from 'name' column into list_name column.

The diagram illustrates the steps required to convert an Excel form into XLSForm. It shows a speech bubble pointing from the 'name' column in the Excel sheet to the 'list_name' column in the XLSForm structure. Another speech bubble points from the sheet name ('choices') to the sheet tab at the bottom of the Excel window, indicating where to save the file.

1. Save this excel form as .xls format with a meaningful name
2. Use the following link to upload the form and test it by selecting 'Preview in browser'

<https://getodk.org/xlsform/>

Test: Link 1



The screenshot displays the main interface of the XLSForm Online tool. At the top center, it says "XLSForm Online". Below that, a sub-headline reads "Convert an [XLSForm](#) into an ODK XForm for temporary previewing." A yellow callout box contains the text: "Collecting data over time? Entities in ODK enable longitudinal data collection, case management, and other complex workflows. [Watch demo video.](#)". The main form area has a file input field labeled "File: Choose File" with "No file chosen" and a "Submit" button below it. At the bottom, there are two buttons: "Download XForm" and "Preview in browser". A red number "2" is overlaid on the left side of the main form area, and a red number "3" is overlaid on the right side of the "Preview in browser" button.

2

1

3

XLSForm Online

Convert an [XLSForm](#) into an ODK XForm for temporary previewing.

Collecting data over time? Entities in ODK enable longitudinal data collection, case management, and other complex workflows. [Watch demo video.](#)

File: No file chosen

Submit

Download XForm Preview in browser

By using this web app, you agree to our [Terms of Service](#) and [Privacy Policy](#).

Validate

You should get this OK

test_form

Your name

Saneesh

Were you bitten by a mosquito yesterday?

Yes

No

✓ Validate

OK

Form is valid!

OK

https://staging.enketo.getodk.org/preview?form=https%3A//staging.xlsform.ge

Search

idiv\ty0osat

GIS

UFZ

GH

Bayes

Sci.

Col

Stat.

Wetlands

jnc

gitlabUFZ

Using the app to collect data

Create an account in KOBO

Link 2:

<https://kc.humanitarianresponse.info/>

Get android application to collect data

KOBO Collect

https://play.google.com/store/apps/details?id=org.koboc.collect.android&pcampaignid=web_share

Or

ODK Collect

https://play.google.com/store/apps/details?id=org.odk.collect.android&pcampaignid=web_share

20:28 70.3KB/s



Collect data anywhere



Configure with QR code



Manually enter project details

KoboCollect v2023.1.2

Don't have a project yet? [Try a demo](#)



Add project

URL

Username

Password

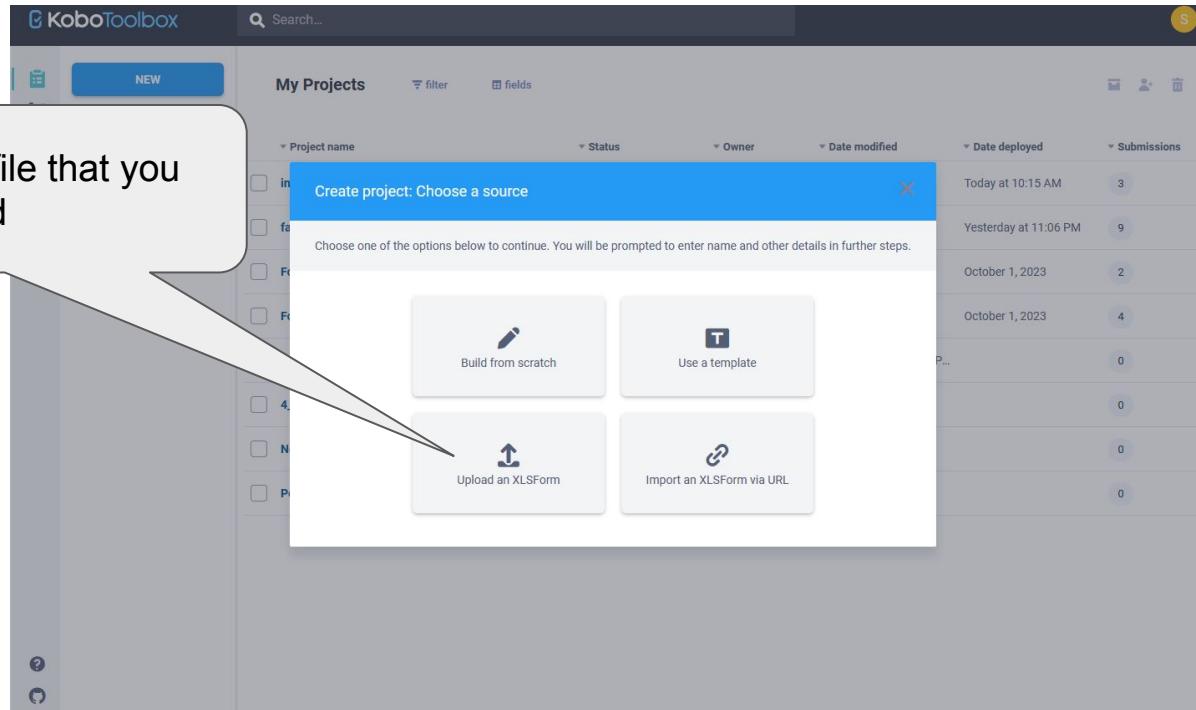
 After you add your project, you can configure it in Settings

Link 2:

<https://kc.humanitarianresponse.info/>

Your username and Password

Open the <https://eu.kobotoolbox.org> this link in computer browser



KoboToolbox

https://eu.kobotoolbox.org/#/forms/a5MDavPsehdGPgFZTraGNt/data/ 67%

idiv\ty0osat ODK_R_workshop

NEW

Deployed 4

Draft 1

Archived 0

Table hide fields 1 - 7 7 results Validation start end My expectations of the course... The course was structured clearly. There were no technical issues.

Reports Show All Agree partly Agree completely Agree completely Agree completely Agree partly Disagree partly Disagree completely Agree completely Agree complet

Create project: Project details

Project Name (required) test_form

Description Enter short description here

Sector (required) Select...

Country (required) Select...

CREATE PROJECT

PREV Page 1 of 1 30 rows NEXT

Fill the required fields and CREATE PROJECT

test_form | KoboToolbox

https://eu.kobotoolbox.org/#/forms/ar7Dn5RNXMq687RcUp7RrA/land 67%

M idiv\ty0osat DFG Wetlands A jnc gitlabUFZ

GIS UFZ GH Bayes Sci. Col Stat.

KoboToolbox test_form

NEW

Deployed 4
Draft 2
Archived 0

SUMMARY FORM DATA SETTINGS

Draft version

If you want to make these changes public, you must deploy this form.

v1 (undeployed) Last Modified : Today at 2:20 PM - 2 questions

Languages: This project has no languages defined yet

?

?

NEW

General

Media

Sharing

Connect Projects

REST Services

SUMMARY

FORM

DATA

SETTINGS

farmer_crops

⚠ Anyone can see this blank form and add submissions to it because you have not set [your account](#) to require authentication.

Who has access



saneesh_1

is owner

ADD USER

Share publicly by link

Anyone can view this form

Anyone can view submissions made to this form

shareable link

<https://eu.kobotoolbox.org/#/forms/aMViY3MhoysQSLpCYeXA5X>

[Copy team from another project](#) ▾

All the deployed project will be here.

The screenshot shows the KoboToolbox interface for a project named "test_form". The left sidebar lists project categories: NEW, Deployed (with 5 items, one circled), Media, Sharing, Connect Projects, REST Services, Draft (with 1 item), and Archived (with 0 items). The main area is titled "SETTINGS" and contains fields for Project Name (required), Description, Sector (required), and Country (required). Buttons for "Archive Project" and "Delete Project and Data" are also present.

test_form | KoboToolbox

https://eu.kobotoobox.org/#/forms/ar7Dn5RNXMq687RcUp7RrA/settings

SUMMARY FORM DATA SETTINGS

SAVE CHANGES

Project Name (required)

test_form

Description

Enter short description here

Sector (required)

Educational Services / Higher Education

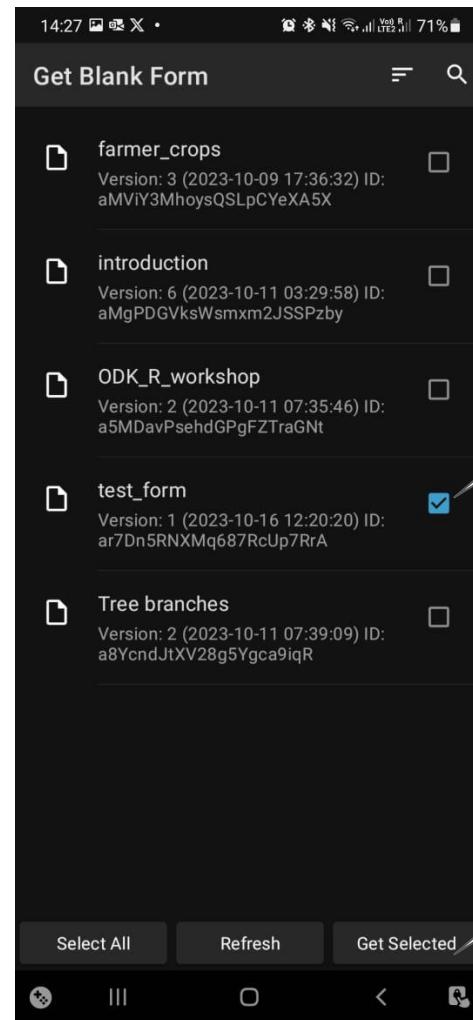
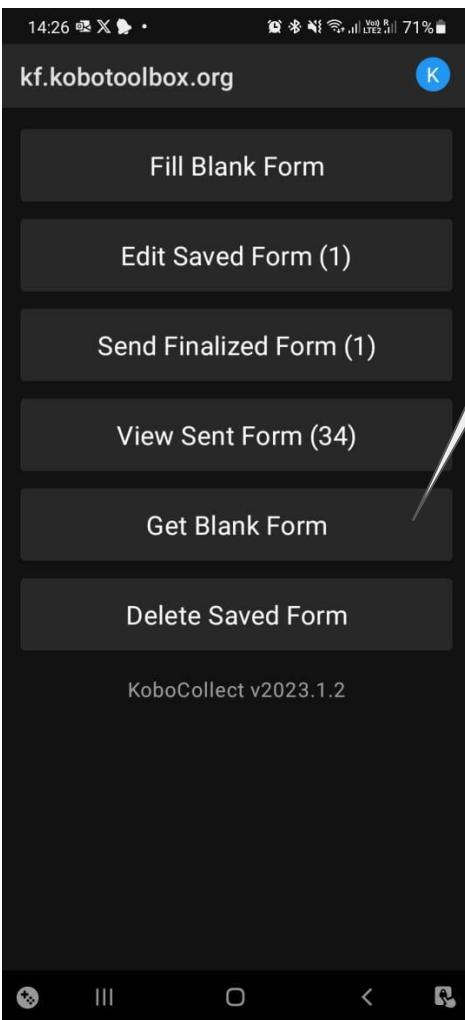
Country (required)

India

Archive Project

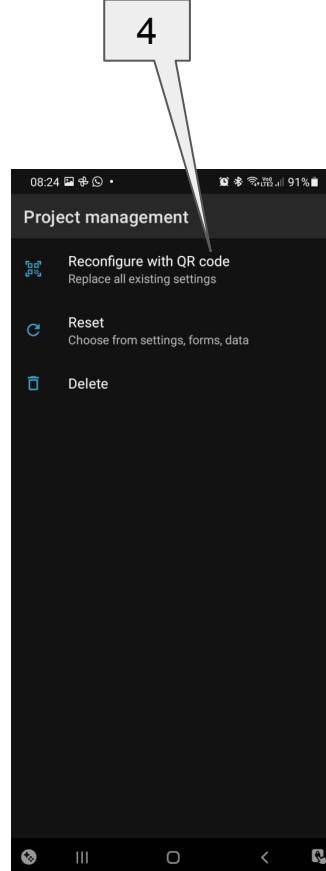
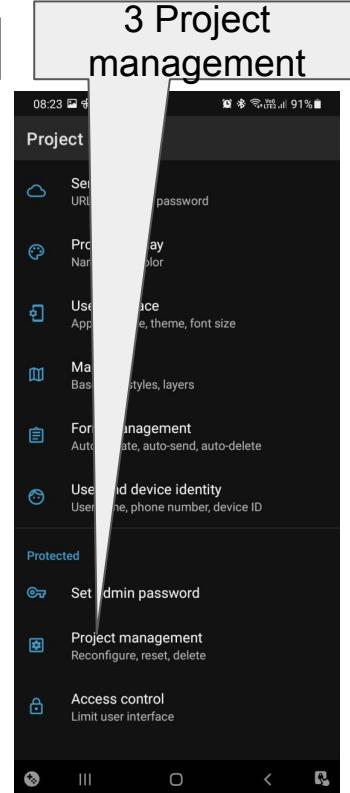
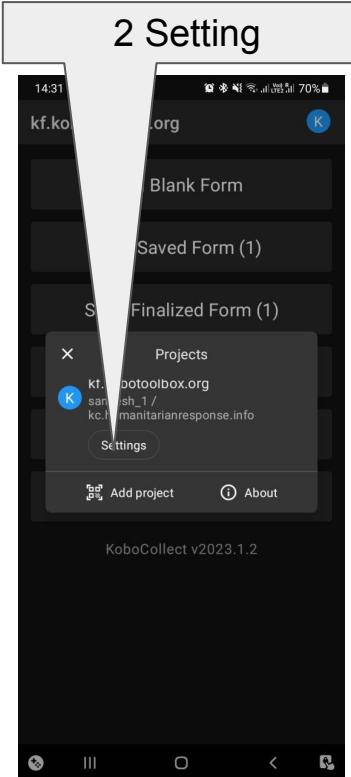
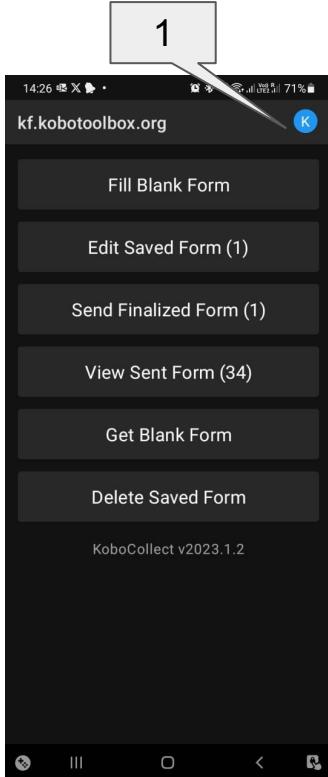
Archive project to stop accepting submissions.

Delete Project and Data



On the mobile app

Sharing a project with partners



Accessing collected data

test_form | KoboToolbox X

https://eu.kobotoolbox.org/#/forms/ar7Dn5RNXMq687RcUp7RrA/sum 67% ★ Search

idiv\ty0osat X Wetlands A jnc gitlabUFZ

KoboToolbox test_form

1 submissions S

SUMMARY FORM DATA SETTINGS

Summary

Deployed 5
test_form
Tree branches
ODK_R_workshop
introduction
farmer_crops

Draft 1
Archived 0

Downloads

Project information

Description

Status Questions Owner
deployed 2 me

Last modified Last deployed
Today at 2:21 PM Today at 2:21 PM

Education
Country
India

Submissions

Past 7 days Past 31 days

1

Quick Links

- Collect data
- Share project
- Edit form
- Preview form

Data

- Table
- Reports
- Gallery
- Downloads
- Map

?

?

test_form | KoboToolbox

https://eu.kobotoolbox.org/#/forms/ar7Dn5RNXMq687RcUp7RrA/data/ 67% Search

1 submissions S

Downloads

Give a name

Export

?

NEW

Deployed 5

- test_form
- Tree branches
- ODK_R_workshop
- introduction
- farmer_crops

Draft 1

Archived 0

Table

Reports

Gallery

Downloads

Map

SUMMARY **FORM** **DATA** **SETTINGS**

Downloads

Select export type: XLS Value and header format: Labels

Advanced options ▾

Export Select Many questions as... Single and separate columns

Include data from all 1 versions

Include groups in headers Group separator: /

Store date and number responses as text

Include media URLs

Save selection as... test_data

Select questions to be exported **Select all** **Deselect all**

- Your name
- Were you bitten by a mosquito yesterday?
- _id
- _uuid
- _submission_time
- _validation_status
- _notes
- _status
- _submitted_by
- _tags

EXPORT

The screenshot shows the KoboToolbox interface for a project titled "introduction". The top navigation bar includes the KoboToolbox logo, the project name, a file icon, and a yellow circular icon with a dollar sign. The top right corner shows "10 submissions" and a yellow circular icon with a dollar sign. Below the navigation is a horizontal menu with tabs: SUMMARY, FORM, DATA (which is highlighted in blue), and SETTINGS.

The main content area is titled "Downloads". It contains several configuration options:

- "Select export type": A dropdown menu set to "XLS".
- "Value and header format": A dropdown menu set to "Labels".
- "Advanced options": A link with a downward arrow.
- "Apply saved export settings": A dropdown menu containing "intro_data" with a delete icon.

A large blue "EXPORT" button is located on the right side of the "Downloads" section. The left sidebar features a navigation menu with the following items:

- Table (selected)
- Reports
- Gallery
- Downloads (selected)
- Map

At the bottom left of the sidebar are two small circular icons: one with a question mark and one with a user profile.

Three numbered callout boxes are overlaid on the interface:

- Box 1 points to the yellow circular icon with a dollar sign in the top right corner.
- Box 2 points to the "Downloads" item in the sidebar.
- Box 3 points to the "intro_data" entry in the "Apply saved export settings" dropdown.

test_form | KoboToolbox

https://eu.kobotoolbox.org/#/forms/ar7Dn5RNXMq687RcUp7RrA/data/ 67% Search

M idiv\ty00sat DFG GIS UFZ GH Bayes Sci. Col Stat. Wetlands jnc gitlabUFZ

KoboToolbox test_form 1 submissions S

SUMMARY FORM DATA SETTINGS

Advanced options ▾

Export Select Many questions as... Single and separate columns

Include data from all 1 versions

Include groups in headers Group separator /

Store date and number responses as text

Include media URLs

Save selection as... test_data

Select questions to be exported

_id

_uuid

_submission_time

_validation_status

_notes

_status

_submitted_by

_tags

_Index

version

EXPORT

Exports

Type	Created	Language	Include Groups	Multiple Versions
XLS	Today at 2:55 PM	Labels	No	Yes

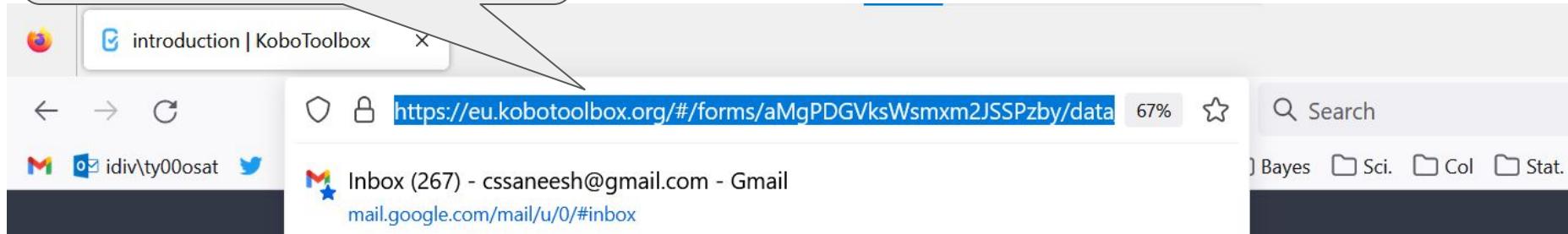
Download

Download and Save.

Change the name of the file
if you need.

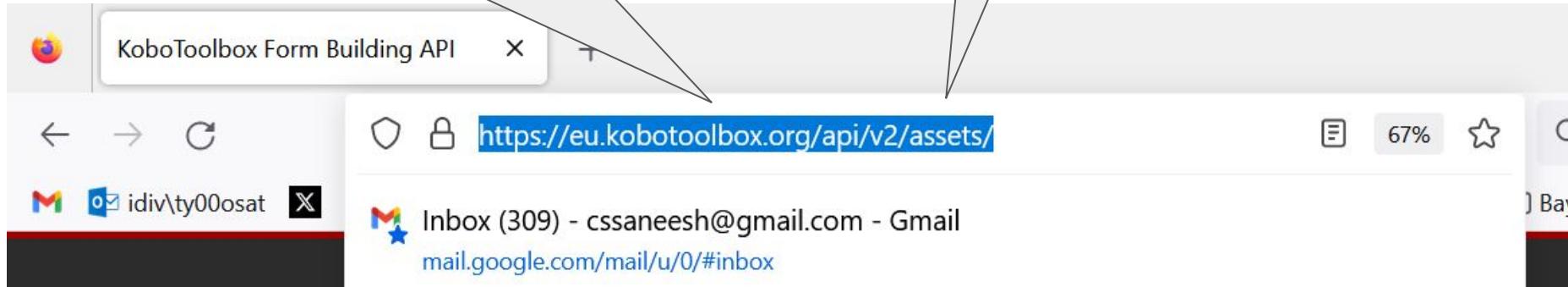
Linking data to Google Sheets

1. Copy the link of KOBOToolBox



2. Add **api/v2/assets/** after
https://eu.kobotoolbox.org/

Link 3



[←](#) [→](#) [⟳](#)[M](#) [D](#) [idiv\ty00sat](#) [X](#)

Search the given name in slide 28

test_data

```
        "user": "https://eu.kobotoobox.org/api/v2/users/saneesh_1",
        "permission": "https://eu.kobotoobox.org/api/v2/permissions/validate_submissions/",
        "label": "Validate submissions"
    },
    {
        "url": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/permission-assignments/p5EYzWGVaZCaTSjEzqv73t/",
        "user": "https://eu.kobotoobox.org/api/v2/users/saneesh_1",
        "permission": "https://eu.kobotoobox.org/api/v2/permissions/view_asset/",
        "label": "View form"
    },
    {
        "url": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/permission-assignments/pQ9Mm2mnpEr5wH3edjLXGk/",
        "user": "https://eu.kobotoobox.org/api/v2/users/saneesh_1",
        "permission": "https://eu.kobotoobox.org/api/v2/permissions/view_submissions/",
        "label": "View submissions"
    }
],
"export_settings": [
    {
        "uid": "esLpFhQm5FGpPSJXade7ck",
        "url": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/",
        "data_url_csv": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/data.csv",
        "data_url_xlsx": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/data.xlsx",
        "name": "test_data",
        "date_modified": "2023-10-16T12:55:09.848576Z",
        "export_settings": {
            "lang": "default",
            "type": "xls",
            "fields": [],
            "group_sep": "/",
            "multiple_select": "both",
            "include_media_url": true,
            "xls_types_as_text": false,
            "hierarchy_in_labels": false,
            "fields_from_all_versions": true
        }
    }
],
"downloads": [
    {
        "format": "xls",
        "url": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA.xls"
    },
    {
        "format": "xml",
        "url": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA.xml"
    }
],
"data": "https://eu.kobotoobox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/data/",
"subscribers_count": 0,
```



```
        "user": "https://eu.kobotoolbox.org/api/v2/users/saneesh_1/",
        "permission": "https://eu.kobotoolbox.org/api/v2/permissions/validate_submissions/",
        "label": "Validate submissions"
    },
    {
        "url": "https://eu.kobotoolbox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/permission-assignments/p5EYZwGVAzCAtSJEzqv73t/",
        "user": "https://eu.kobotoolbox.org/api/v2/users/saneesh_1",
        "permission": "https://eu.kobotoolbox.org/api/v2/permissions/view_asset/",
        "label": "View form"
    },
    {
        "url": "https://eu.kobotoolbox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/permission-assignments/p5EYZwGVAzCAtSJEzqv73t/",
        "user": "https://eu.kobotoolbox.org/api/v2/users/saneesh_1",
        "permission": "https://eu.kobotoolbox.org/api/v2/permissions/view_submissions/",
        "label": "View submissions"
    }
],
"export_settings": [
    {
        "uid": "esLpFhQm5FGpPSJXade7ck",
        "url": "https://eu.kobotoolbox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/",
        "data_url_csv": "https://eu.kobotoolbox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/data.csv",
        "data_url_xlsx": "https://eu.kobotoolbox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/data.xlsx",
        "name": "test_data",
        "date_modified": "2023-10-16T12:55:09.848576Z",
        "export_settings": {
            "lang": "_default",
            "type": "xls",
            "fields": [],
            "group_sep": "/",
            "multiple_select": "both",
            "include_media_url": true,
            "xls_types_as_text": false,
            "hierarchy_in_labels": false,
            "fields_from_all_versions": true
        }
    }
]
```

Find .csv file and
select and copy the
highlighted part

KoboToolbox Form Building API + intro_data - Google Sheets

https://docs.google.com/spreadsheets/d/1exaaZgECbJPlg8NBI8Abi

90% Search

idiv\ty0osat

File Edit View Insert Format Data Tools Extensions Help

100% 123 Default... 10

A1 | fx

A B

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Sheet1

=IMPORTDATA

On google Sheets



File Edit View Insert Format Data Tools Extensions Help

Search, Print, 100%, Default, Font Size 10, Bold, Italic, Underline, Alignment, Cell Style, Sort, Filter, Insert, Delete, Link, Insert Image

A1 | fx =IMPORTDATA("https://eu.kobotoolbox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/data.csv", ";")

1 | fx =IMPORTDATA("https://eu.kobotoolbox.org/api/v2/assets/ar7Dn5RNXMq687RcUp7RrA/export-settings/esLpFhQm5FGpPSJXade7ck/data.csv", ";")

2

3

4

5

M o idivity00sat X G D F G Saving...

intro_data

File Edit View Insert Format Data Tools Extensions Help

Search, Print, 100%, Default, Font Size 10, Bold, Italic, Underline, Alignment, Cell Style, Sort, Filter, Insert, Delete, Link, Insert Image

E1 | fx

1 | Loading...

2

3

4



File Edit View Insert Format Data Tools Extensions Help

Search, Print, 100%, Default, Font Size 10, Bold, Italic, Underline, Alignment, Cell Style, Sort, Filter, Insert, Delete, Link, Insert Image

B14

Paint format

	A	B	C	D	E
1	Your name	Were you bitten by a mosquito yesterday?	_id	_uuid	_submission_time
2	Saneesh	Yes		492541842	e50b318c-d238-48e7-8228-f851ce5
3					4521

Introduction to Data Analysis with R & RStudio

To link Google Sheets with RStudio

Introduction to Data Analysis with R & RStudio

Link 4:

https://github.com/cssaneesh/sccs_workshop

1

main 1 branch

cssaneesh link

	.gitignore	Initial commit
	1_People you met.xlsx	Initial commit
	2_People you met.xlsx	Initial commit
	3_People you met.xlsx	link
	LICENSE	Initial commit
	Plant study.xlsx	Initial commit
	SCCS_links.docx	link
	intro_data.R	minor change
	introduction.xlsx	Initial commit
	reading_googlesheets.R	Initial commit
	scs_workshop.Rproj	Initial commit

2

Local Codespaces

Clone

HTTPS GitHub CLI

https://github.com/cssaneesh/scs_workshop.git

Use Git or checkout with SVN using the web URL.

Open with GitHub Desktop

Download ZIP

About

From Data Collection, management to Storytelling

MIT license

Activity

0 stars

1 watching

0 forks

Report repository

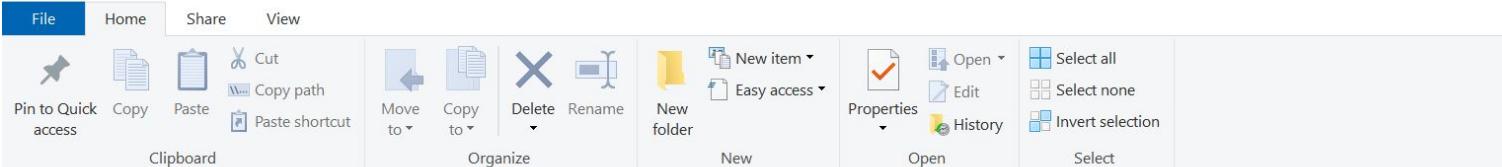
Releases

No releases published

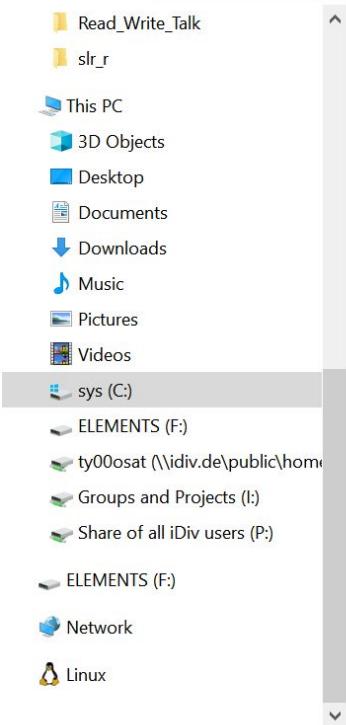
Packages

No packages published

Languages



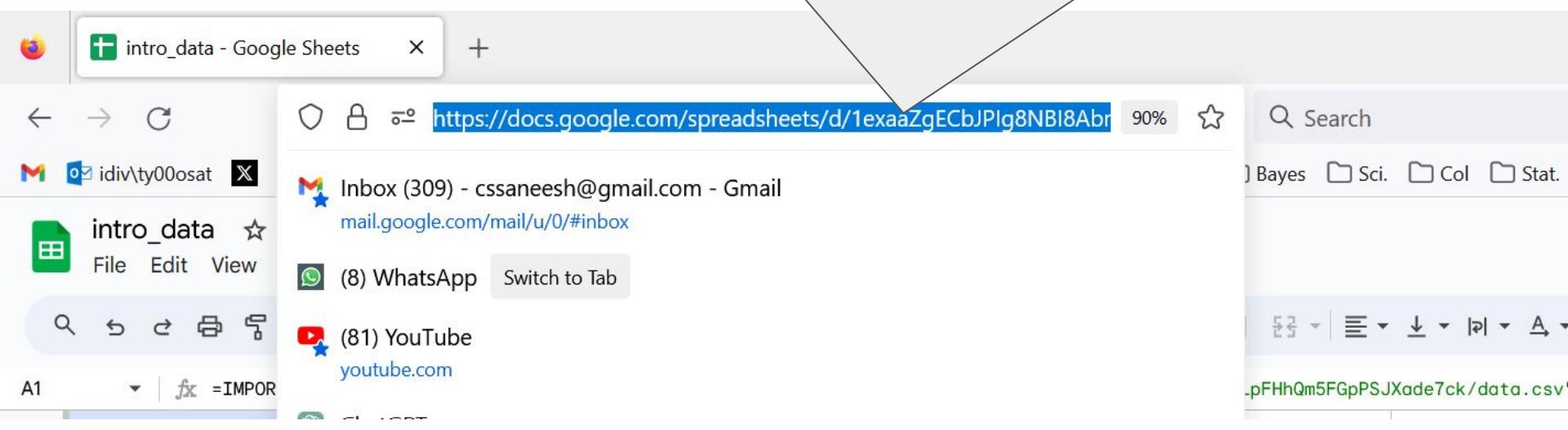
← → ↑ ↓ This PC > sys (C:) > Users > ty00osat > Desktop > SCCS > SCCS_R > sccs_workshop



Name	Date modified	Type	Size
LICENSE	10/10/2023 4:01 PM	File	2 KB
1_People you met.xlsx	10/2/2023 3:07 PM	Microsoft Excel Work...	10 KB
2_People you met.xlsx	10/2/2023 3:08 PM	Microsoft Excel Work...	10 KB
3_People you met.xlsx	10/2/2023 3:09 PM	Microsoft Excel Work...	13 KB
introduction.xlsx	10/11/2023 5:21 AM	Microsoft Excel Work...	12 KB
Plant study.xlsx	10/11/2023 5:33 AM	Microsoft Excel Work...	87 KB
test_form.xlsx	10/16/2023 2:04 PM	Microsoft Excel Work...	10 KB
types.xlsx	10/16/2023 4:27 PM	Microsoft Excel Work...	159 KB
SCCS_links.docx	10/16/2022 1:15 PM	Microsoft Word Doc...	13 KB
intro_data.R	10/11/2023 2:55 PM	R File	2 KB
reading_googlesheets.R	10/10/2023 3:59 PM	R File	2 KB
sccs_workshop.Rproj	10/16/2023 4:00 PM	R Project	1 KB
.Rhistory	10/11/2023 2:55 PM	RHISTORY File	10 KB
.gitignore	10/10/2023 4:01 PM	Text Document	1 KB

Refer the **intro_data.R** script in the R project (**sccs_workshop**)

Copy the link or the **ID** of the sheet that you want to work with RStudio

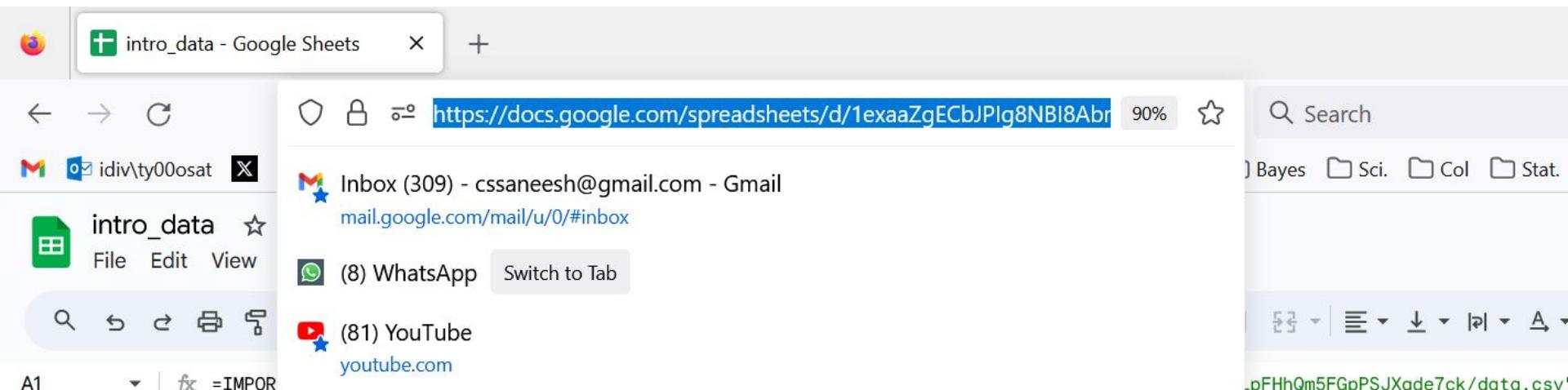


Refer the **intro_data.R** script in the R project (**sccs_workshop**).

(<https://docs.google.com/spreadsheets/d/1W1pnWpaElBdsiE3paQrKpfhTSqSOIUrUH2W-IxFkNWY/edit#gid=1204062211>)

name <- read_sheet ()

Sheet ID



```
reading_googlesheets.R x
1 # Saneesh
2 # date: Oct 01, 2023
3
4 #Install the required packages
5 # install.packages('googlesheets4')
6 # install.packages('dplyr')
7 # install.packages('ggplot2')
8
9
10 #Load the required libraries
11 library(googlesheets4)
12 library(dplyr)
13 library(ggplot2)
14
15 # copy link to required sheet
16 test <- read_sheet('https://docs.google.com/spreadsheets/d/1_gcL26IGKkvAaFPcDwH
17
18 # or
19 # copy the sheet ID
20 test1 <- read_sheet('1_gcL26IGKkvAaFPcDwHkqEpQ9bpz_L1TBBg7pmn7Kvo')
21
22 # give permission when the browser opens
23 # back to Rstudio
```

Paste the link of the
Sheet or ID

7:30 (Top Level) ▾ R Script

Console Terminal x Background Jobs x

R 4.2.2 · C:/Users/ty00sat/Desktop/SCCS/SCCS_R/sccs_workshop/

R version 4.2.2 (2022-10-31 ucrt) -- "Innocent and Trusting"
Copyright (C) 2022 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.

Environment History Connections Git Tutorial

Import Dataset 106 MiB

R Global Environment

Environment is empty

Files Plots Packages Help Viewer Presentation

New Folder New Blank File Delete Rename More

C:/> Users > ty00sat > Desktop > SCCS > SCCS_R > sccs_workshop

Name	Size	Modified
..		
.gitignore	720 B	Oct 10, 2023, 4:01 PM
.Rhistory	9.7 KB	Oct 11, 2023, 2:55 PM
1_People you met.xlsx	9.9 KB	Oct 2, 2023, 3:07 PM

There are some sample form in the downloaded R Project, try developing forms as mentioned on slide 12

This PC > Desktop > SCCS > SCCS_R > sccs_workshop

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intro_data.R	10/11/2023 2:55 PM	R File	2 KB
reading_gsheets.R	10/10/2023 3:59 PM	R File	2 KB
sccs_workshop.Rproj	10/16/2023 4:00 PM	R Project	1 KB
.Rhistory	10/11/2023 2:55 PM	RHISTORY File	10 KB
.gitignore	10/10/2023 4:01 PM	Text Document	1 KB

Type: Text Document
Size: 720 bytes
Date modified: 10/10/2023 4:01 PM

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