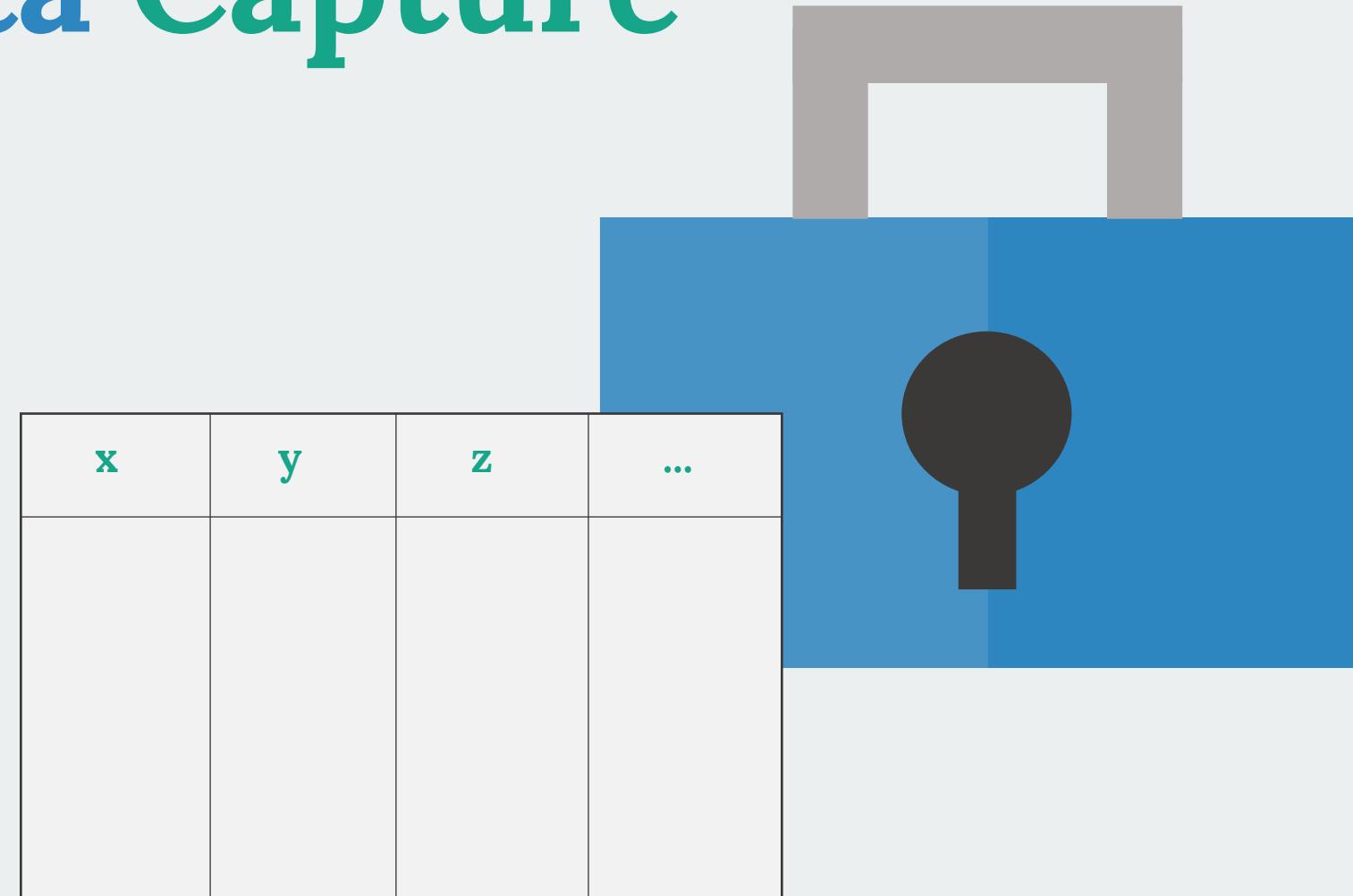


Secure Data Capture

REDCap and Others



Tyson S. Barrett, PhD

Data Science & Discovery Unit

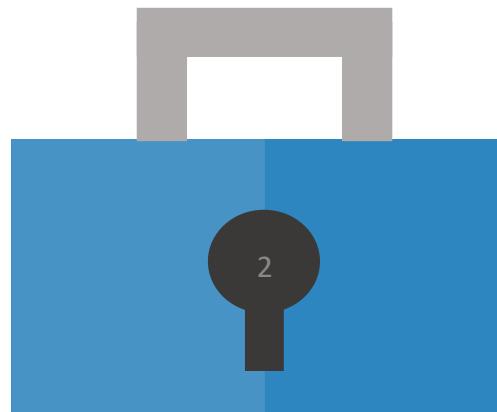
Emma Eccles College of Education and Human Services

1

General Tools for Secure Data Capture

2

Introduction to REDCap

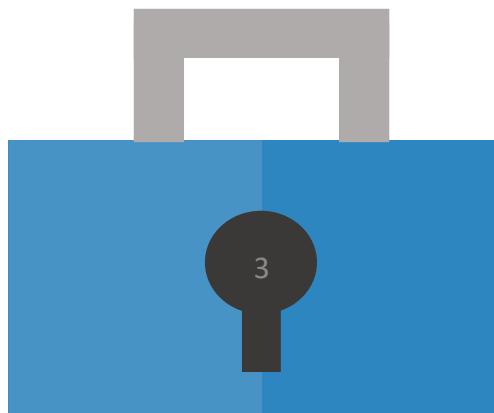


1

General Tools for Secure Data Capture

2

Introduction to REDCap



Secure Tools



Some tools are secure when used correctly:

box

 **REDCap**
Research Electronic Data Capture



Insecure Tools



Other tools are not qualified to house PHI unless you have a special agreement:



Dropbox



Google Drive

Insecure Tools



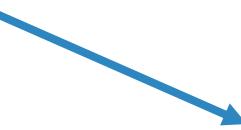
Other tools are not qualified to house PHI unless you have a special agreement:



Dropbox



Google Drive



HIPAA AND HITECH

“Qualtrics provides general research software and other services where all data are processed equally, without regard to how a Customer might classify their data. As such, Qualtrics cannot declare or represent any data entered into its services. Any processing of specific data types is purely incidental, and not required to use the services.

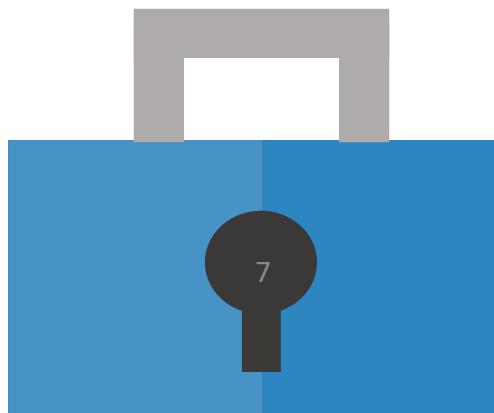
“HITECH (Health Information Technology for Economic and Clinical Health Act) updated HIPAA rules to ensure that data are properly protected and best security practices followed. Qualtrics safeguards all Customer data and uses secure data centers to ensure the highest protection as per HITECH requirements.”

1

General Tools for Secure Data Capture

2

Introduction to REDCap



REDCap

Research Electronic Data Capture

HIPAA compliant

Data stored on servers at the college



REDCap

Research Electronic Data Capture

HIPAA compliant

Data stored on servers at the college

Can be used for surveys and data entry

Extensive user rights

Can control who sees what (de-identified)



REDCap Vocabulary

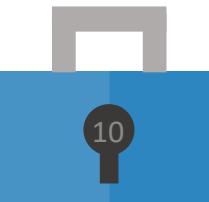
Field = single question

Instrument = collection of questions

Project = collection of instruments

**Data Entry = internal in REDCap with the ability
to go back and adjust the data**

**Survey = is released to be filled out by individuals
with the proper link**



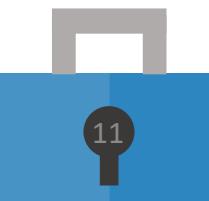
REDCap

Need to sign up for an account

<https://redcap.cehs.usu.edu/surveys/index.php?s=MDNHMDKPNM>

Sign in

<https://redcap.cehs.usu.edu>



Listed below are the REDCap projects to which you currently have access. Click the project title to open the project. [Read more](#)

To review which users still have access to your projects, visit the [User Access Dashboard](#).

My Projects		Organize	Filter projects by title				
Project Title			Records	Fields	Instrument	Type	Status
Practice			0	2	1 form		
StatStudio_IndividualConsulting			11	68	2 forms 2 surveys		
User Web Requests			5	57	1 survey		

The projects listed below are public and are accessible by anyone. No authentication (i.e. username/password) is required to access them directly.

Public Projects
Basic Demography
Classic Database
Human Cancer Tissue Biobank
Longitudinal Database (1 arm)
Longitudinal Database (2 arms)
Multiple Surveys (classic)
Multiple Surveys (longitudinal)
Piping Example Project

+ Create a new REDCap Project

You may begin the creation of a new REDCap project on your own by completing the form below and clicking the Create Project button at the bottom.

Project title:

Title to be displayed on project webpage

Purpose of this project:

How will it be used?

---- Select One ----

Project notes (optional):

Comments describing the project's use or purpose for documentation purposes only.

Start project from scratch or begin with a template?

- Create an empty project (blank slate)
- Upload a REDCap project XML file (CDISC ODM format) [?](#)
- Use a template (choose one below)

★ Choose a project template (comes pre-filled with fields, forms/surveys, and other settings)

select template	Template title (sorted by title)	Template description
<input type="radio"/>	Basic Demography	Contains a single data collection instrument to capture basic demographic information.
<input type="radio"/>	Classic Database	Contains six data entry forms, including forms for demography and baseline data, three monthly data forms, and concludes with a completion data form.
<input type="radio"/>	Human Cancer Tissue Biobank	Contains five data entry forms for collecting and tracking information for cancer tissue.
<input type="radio"/>	Longitudinal Database (1 arm)	Contains nine data entry forms (beginning with a demography form) for collecting data longitudinally over eight different events.
<input type="radio"/>	Longitudinal Database (2 arms)	Contains nine data entry forms (beginning with a demography form) for collecting data on

[Create Project](#)[Cancel](#)



Logged in as tyson.barrett@usu.edu

[Log out](#)

[My Projects](#)

[Project Home](#)

[Project Setup](#)

Project status: Development

Data Collection [Edit instruments](#) [\[\]](#)

[Record Status Dashboard](#)

- View data collection status of all records

[Add / Edit Records](#)

- Create new records or edit/view existing ones

Show data collection instruments [▼](#)

Applications [\[\]](#)

[Calendar](#)

[Data Exports, Reports, and Stats](#)

[Data Import Tool](#)

[Data Comparison Tool](#)

[Logging](#)

[Field Comment Log](#)

[File Repository](#)

[User Rights and DAGs](#)

[Data Quality](#)

[REDCap Mobile App](#)

Help & Information [\[\]](#)

[Help & FAQ](#)

[Video Tutorials](#)

[Suggest a New Feature](#)

[Contact REDCap administrator](#)

Practice2

[Project Home](#)

[Project Setup](#)

[Other Functionality](#)

[Project Revision History](#)

Project status: Development

Completed steps **0 of 7**

Main project settings



Not started
[I'm done!](#)

[Enable](#) [Use surveys in this project?](#) [\[? \]](#)

[VIDEO: How to create and manage a survey](#)

[Enable](#) [Use longitudinal data collection with defined events?](#) [\[? \]](#)

[Modify project title, purpose, etc.](#)

Design your data collection instruments



Not started
[I'm done!](#)

Add or edit fields on your data collection instruments. This may be done by either using the Online Designer (online method) or by uploading a Data Dictionary (offline method). Quick links: [Download PDF of all instruments](#) OR [Download the current Data Dictionary](#)

Go to [Online Designer](#) or [Data Dictionary](#)

You may also browse for pre-built data collection instruments in the [REDCap Shared Library](#)

Have you checked the [Check For Identifiers](#) page to ensure all identifier fields have been tagged?

Enable optional modules and customizations



Optional
[I'm done!](#)

[Enable](#) [Repeatable instruments](#) [\[? \]](#)

[Disable](#) [Auto-numbering for records](#) [\[? \]](#)

[Enable](#) [Scheduling module \(longitudinal only\)](#) [\[? \]](#)

[Enable](#) [Randomization module](#) [\[? \]](#)

[Enable](#) [Designate an email field to use for invitations to survey participants](#) [\[? \]](#)

[Additional customizations](#)

Set up project bookmarks (optional)



Optional

You may create custom bookmarks to webpages that exist inside or outside of REDCap. These bookmarks will be seen as links on the left-hand project menu and can be accessed at any time.

Logged in as [tyson.barrett@usu.edu](#)

[Log out](#)

[My Projects](#)

[Project Home](#)

[Project Setup](#)

Project status: **Development**

Data Collection [Edit instruments](#)

 [Record Status Dashboard](#)

- View data collection status of all records

 [Add / Edit Records](#)

- Create new records or edit/view existing ones

Show data collection instruments ▾

Applications

 [Calendar](#)

 [Data Exports, Reports, and Stats](#)

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 [Data Quality](#)

 [REDCap Mobile App](#)

Help & Information

 [Help & FAQ](#)

 [Video Tutorials](#)

 [Suggest a New Feature](#)

Add New Field

You may add a new project field to this data collection instrument by completing the fields below and clicking the Save button at the bottom. When you add a new field, it will be added to the form on this page. For an overview of the different field types available, you may view the  [Field Types video \(4 min\)](#).

Field Type: [Multiple Choice - Radio Buttons \(Single Answer\)](#)

Field Label

 [How to use Piping](#)

How much do you enjoy this REDCap training?

Choices (one choice per line)

[Copy existing choices](#)

10, I like it very much.

20, I love it.

30, Wow. Just wow.

40, No words to describe my joyous feelings.

[How do I manually code the choices?](#)

Action Tags / Field Annotation (optional)

[Learn about Action Tags](#) or [using Field Annotation](#)

Variable Name (utilized during data export)

joy

Enable auto naming of variable based upon its Field Label?

Required?* Yes No

* Prompt if field is blank

Identifier? No Yes

Does the field contain identifying information (e.g., name, SSN, address)?

Custom Alignment

Right / Vertical (RV) 

Align the position of the field on the page

Field Note (optional) Select just one option.

Small reminder text displayed underneath field

Save

Cancel

[to use this page](#)

Ids or edit
clicking on the 
To reorder the
all field

REDCap

Some nice things:

1. Logic = can use branching logic for the questions
2. Piping = using answers provided previously in another question or answer option
3. Automatic De-identification = data export and user rights
4. Longitudinal Designs = automatic scheduling, great data organization
5. Mobile App = offline mobile app data entry
6. Data Dictionary = automatic data dictionary creation (and it is useful in creating the project)

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REDCap

Similarly to Qualtrics, **REDCap** provides a **link** that can be easily included on your website

- Can customize somewhat

Survey can be highly customized to **work with your website's design**



REDCap

More Information:

 tysongbarrett.com/redcap

 tysong.barrett@usu.edu

