

Is REDCap the Silver Bullet everyone is looking for?

Michael Tang

Scientific Analyst

UBC Advanced Research Computing

Goals of this Presentation

- What is REDCap?
- How it can support research?
- What are its limitations?



What is REDCap?



What is REDCap?



What is REDCap?





What can I do with REDCap?

Classic and Longitudinal Studies

Study ID 2

Data Collection Instrument	Status
Basic Demography Form (survey)	۲
Instrument	

Classic and Longitudinal Studies

Data Collection Instrument	Enrollment	Dose 1	Visit 1	Dose 2	Visit 2	Dose 3	Visit 3	Final visit
Demographics								
Baseline Data								
Visit Lab Data								
Patient Morale Questionnaire								
Visit Blood Workup								
Visit Observed Behavior								
Completion Data								
Completion Project Questionnaire								

Data Entry Forms

Date of birth	H Today D-M-Y
Age (years)	(H) (H) View equation
Gender	间
Height (cm)	
Weight (kilograms)	
вмі	H View equation
Terminate?	⊕ ♥es ● No
General Comments	
Favourite Colours	Red Yellow Blue Other
Comments	H Q
	Expand

Surveys

Demographics	Resize font:
Please complete the survey below.	
Thank you!	
Consent Information	
Date subject signed consent	Today Y-M-D
Upload the patient's consent form	O Upload document
Contact Information	
First Name	
Last Name	

Branching Logic



Branching Logic

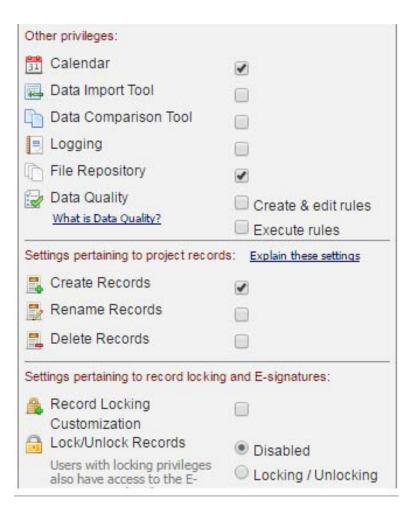
How old are you?	16
Do you have a driver's license?	😠 🔍 Yes 🗭 🔍 No
Highest Level of Education	 High School Undergraduate Degree Graduate Degree
	re

Calculations



Granular Permissions

Basic Rights	
- 1	
Highest level privileges:	
🥜 Project Design and Setup	
🙇 User Rights	
🝰 Data Access Groups	
Privileges for data exports (including reports, and stats:	PDFs and API exports),
Data Exports	No Access
* De-identified means that all free-form text fields will be	De-Identified*
removed, as well as any date/time fields and Identifier fields.	Remove all tagged Identifier fields
	Full Data Set
Add / Edit Reports	Image: A start and a start
Also allows user to view ALL reports (but not necessarily all data in the reports)	
📊 Stats & Charts	



Granular Permissions

Data Entry Rights

NOTE: The data entry rights *only* pertain to a user's ability to view or edit data on a web page in REDCap (e.g., data entry forms, reports). It has no effect on data imports or data exports.

	No Access	Read Only	View & Edit	
Demographics	۲	\bigcirc	\bigcirc	
Baseline Data	\bigcirc	۲	\bigcirc	
Month 1 Data	\bigcirc	\bigcirc	۲	
Month 2 Data	\bigcirc	\bigcirc	۲	
Month 3 Data	\bigcirc	\bigcirc	۲	
Completion Data	\bigcirc	۲	\bigcirc	

Granular Permission

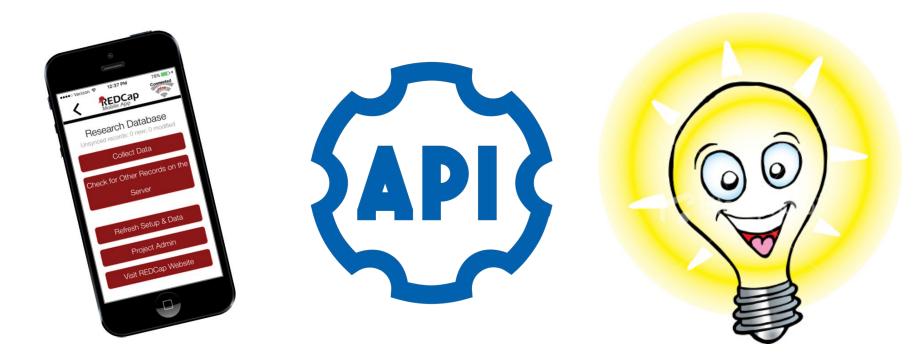
Data Access Groups	Users in group	Number of records in group
Team A	user0001 (User One)	1
Team B	user0002 (User Two)	1
[Not assigned to a group]	mtang (Michael Tang) * Can view ALL records	

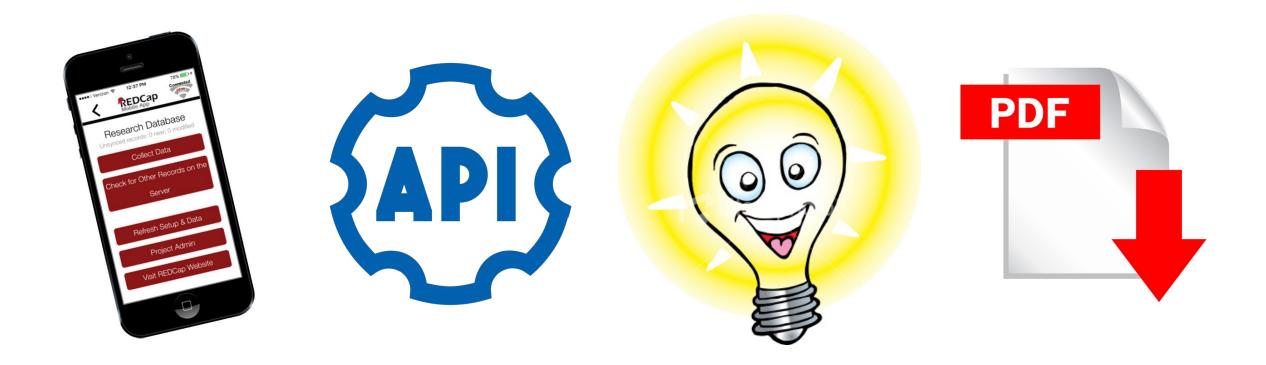
Audit Log

Time / Date	Username	Action	List of Data Changes OR Fields Exported
03/02/2017 1:48pm	mtang	Updated User user0004	user = 'user0004'
03/02/2017 1:48pm	mtang	Updated User user0004	user = 'user0004'
03/02/2017 1:47pm	mtang	Updated User user0004	user = 'user0004'
03/02/2017 1:46pm	mtang	Created Record 2	<pre>first_name = 'Ben', last_name = 'Brown', demographics_complete = '0', record_id = '2'</pre>
03/02/2017 1:46pm	mtang	Updated User user0004	user = 'user0004'
03/02/2017 1:46pm	mtang	Updated User user0004	user = 'user0004'
03/02/2017 1:45pm	user0004	Manage/Design	Download exported data file (CSV raw)
03/02/2017 1:45pm	user0004	Data Export	<pre>report_id: SELECTED, export_format: CSV, rawOrLabel: raw, date_shifted: Yes, deidentified: Yes, fields: "record_id, age, ethnicity, race, sex, height, weight, bmi, demographics_complete"</pre>







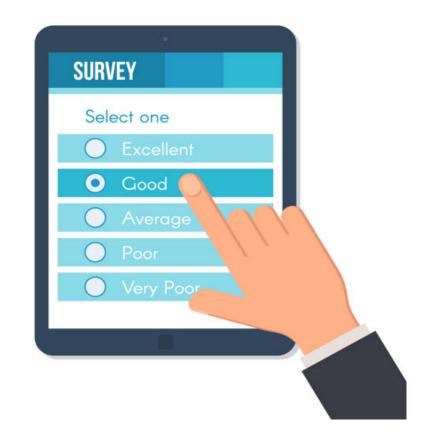




used in research studies?

- Data collection via data entry and surveys
- Research studies with screening and enrolment processes
- Studies with an enrolment survey and follow-up surveys
- Multi-site studies













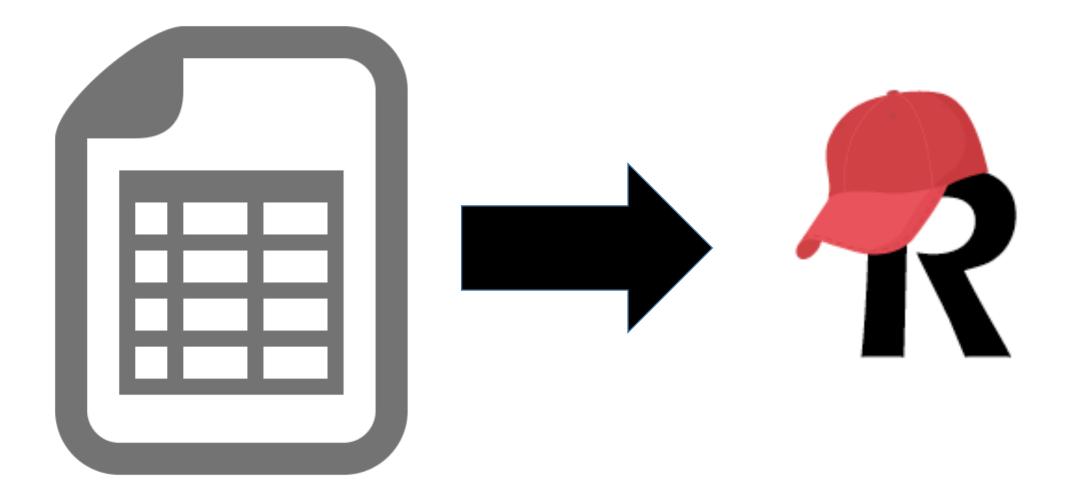




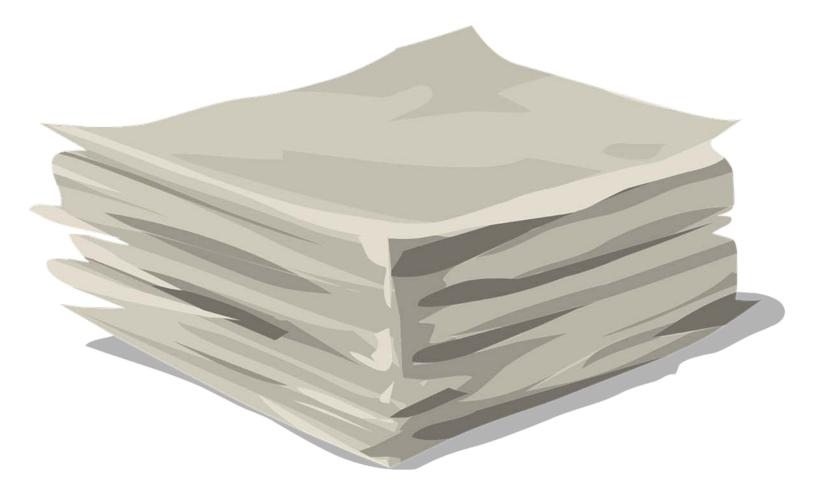
- File and Image Storage
- Communication Tool
- Importing Data from External Sources
- Directory
- Really Long Forms



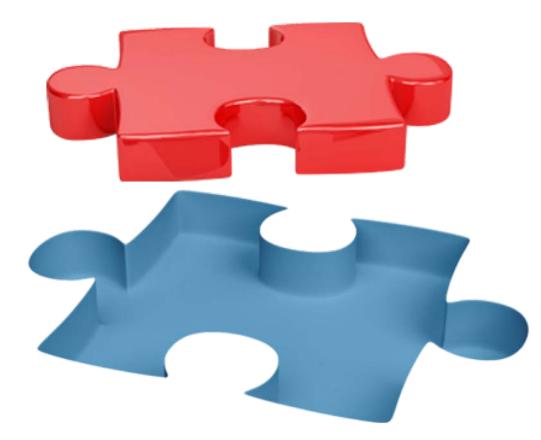








So is REDCap the Silver Bullet?







michael.tang@ubc.ca