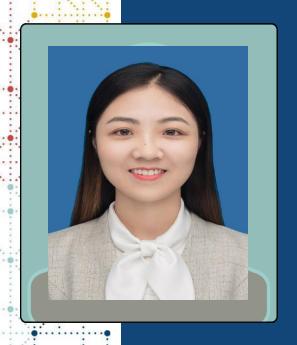


Exploration of open-source technology in the metadata driven clinical trial automation process

Presented by Guoyan Zeng, Statistical Program, DO, Novartis



Meet the Speaker

Guoyan Zeng/ Mengyue Han

Title: Statistical Programmer

Organization: Novartis

Guoyan Zeng received her master's degree in statistics last year. She joined Novartis company as a statistical programmer in July 2021, and enjoys exploring the use of open source technologies in daily work.

Mengyue Han. Master of Biostatistics. Statistical programmer of Novartis with 1 year working experience. Passioned about combining innovative tools with daily task to work efficiently and happily.

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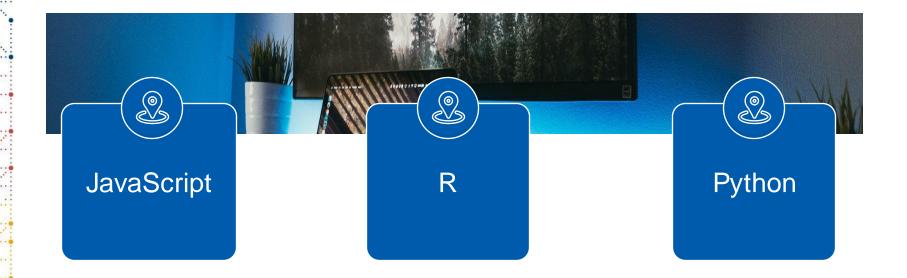




Agenda

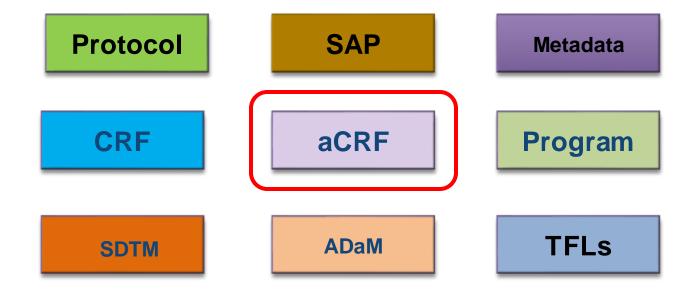
- 1. Open-source technology
- 2. What are the benefits of automating annotated CRFs?
- 3. How to implement aCRF automation?

Open-source technology





Open-source technology







What are the benefits of automating annotated CRFs?

Benefits









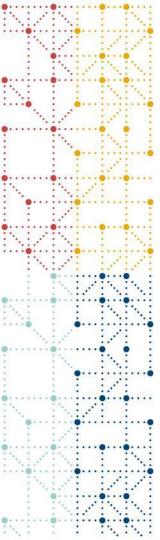
Efficient

Friendly

Consistent

Automatic

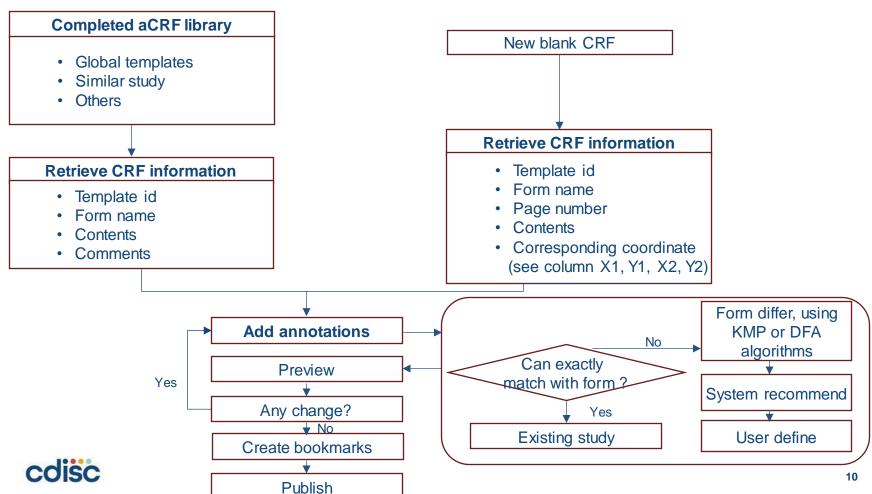




How to implement aCRF automation?

- Create database from existing annotated CRF
- Retrieve annotated CRF information
- Add annotations
- Create Bookmarks

Workflow



Retrieve annotated CRF information

AE = Adverse Events

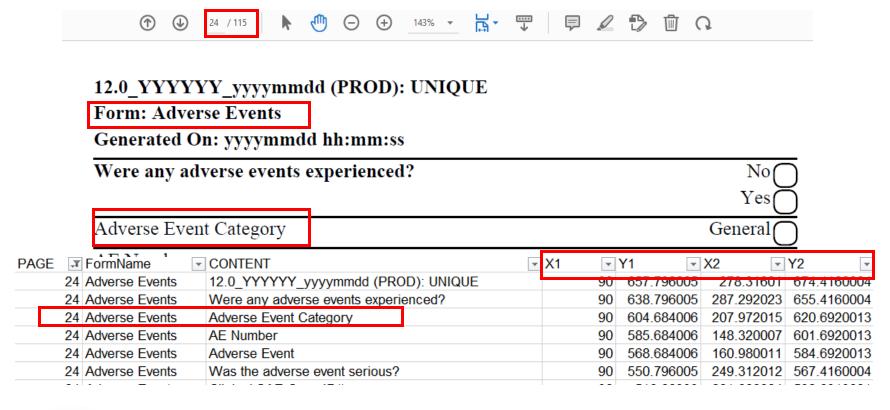
Form: Adverse Events_AEGXXX

If during study participation, the subject experiences a Liver/Renal event, please refer to form level help for guidance on recording all related information.

Were any adverse events experienced? No()									
			[NOT	SUBMITTED]	Yes				
Adverse Event Categ	gory		AEC	AT	General				
A FORMNAME TEMI Adverse Events AEG	PLATE ID CONTEN	T		COMMENT					
Adverse Events AEG	XXX Form: Ad	verse Events_AEGXXX	A	AE = Adverse Even	nts				
A Adverse Events AEG	XXX Were any	/ adverse events experi	enced?	NOT SUBMITTED]					
V Adverse Events AEG.	XXX Adverse B	Event Category	Į.	AECAT	No No				
Adverse Events AEG	XXX AE Numb	oer	· A	AESPID	Yes				
Adverse Events AEG				AETERM	163				
Adverse Events AEG	XXX Was the	adverse event serious?	P	AESER					



Retrieve blank CRF information





Add annotations

Form: Adverse Events

Generated On: yyyymmdd hh:mm:ss

Wer	e any adv	erse events experienced?	[NOT SUBMITTED]			No Yes		
Adv	erse Event	Category AECAT				General		
AE Number AESPID								
Adverse Event AETERM								
Was the adverse event serious? AESER						No		
						Yes		
24	Adverse Events	Were any adverse events experienced?	[NOT SUBMITTED]	90	638 796005	287 292023 655 4160004		
24	Adverse Events	Adverse Event Category	AECAT	90	604.684006	207.972015 620.6920013		
24	Adverse Events	AE Number	AESPID	90	505.004000	148.320007 601.6920013		
24	Adverse Events	Adverse Event	AETERM	90	568.684006	160.980011 584.6920013		
24	Adverse Events	Was the adverse event serious?	AESER	90	550.796005	249.312012 567.4160004		



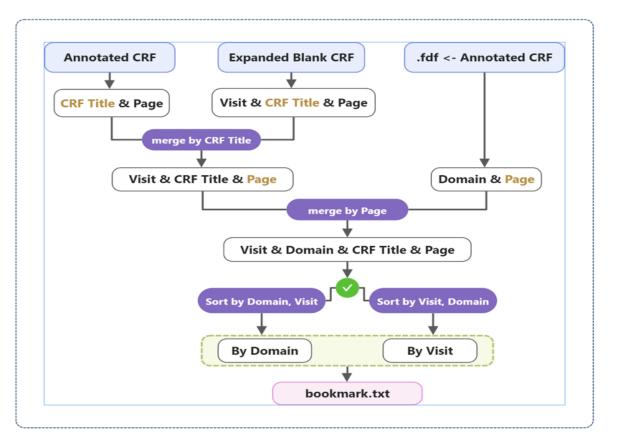
Create Bookmarks

- Dual Bookmarking
 - CDISC guidance specifies bookmarks only for Visit and Form. Follow the examples of dual bookmarking in CDISC's sample aCRF by linking multiple bookmarks to the same unique form.
 - Many mistakenly think bookmarks must be in a 1:1 relationship with the form they point to. Create multiple relationships by using both of these hierarchies.
 - By Visit > Visit Name > Form Name
 - By Form > Form Name > Visit Name (if applicable)
 - Note: Bookmarks are not needed for **Domains**. Many mistakenly think the opposite, likely because CDISC's sample aCRF has the confusing bookmark label "Domains" to mean "Forms," as seen in the image below. The MSG uses "Domains" to mean simply the topics of pages/forms.
 - Note: Bookmarks are not needed for Not Submitted forms.

Link: Formatting Annotated Case Report Forms (aCRFs): Part 2 | Pinnacle 21



Create Bookmarks







Thank You!

Development team: Stanley Wei, Xiaoran Yin, Yun Jiang, Mengyue Han, Guoyan Zeng

