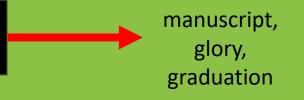
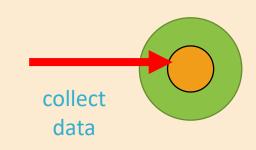




manuscript, glory, graduation

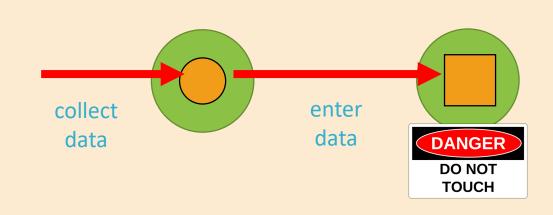


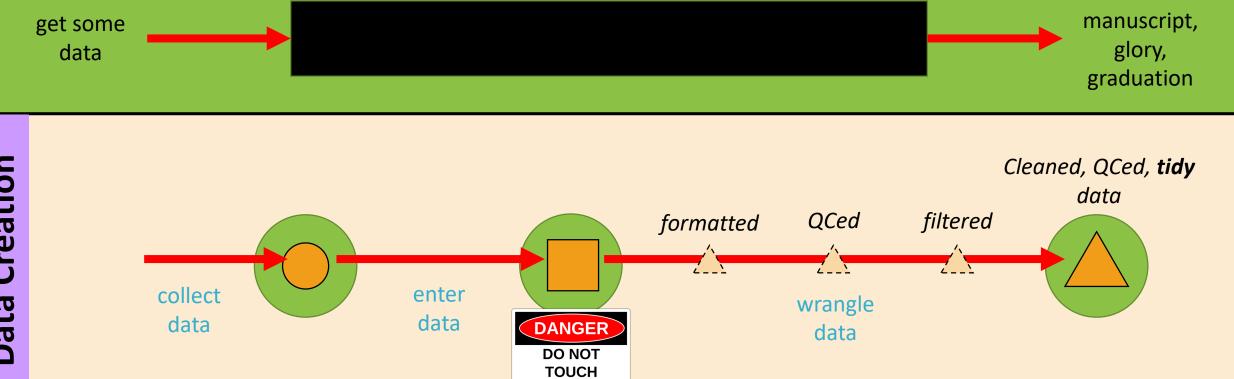


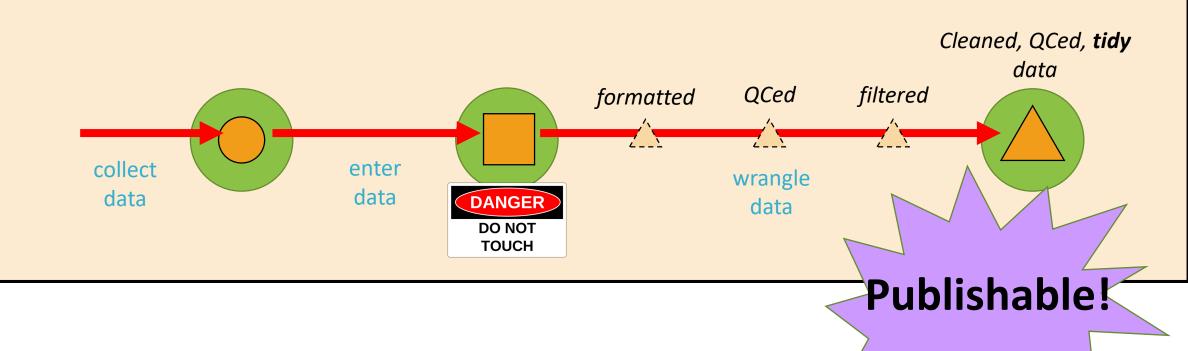


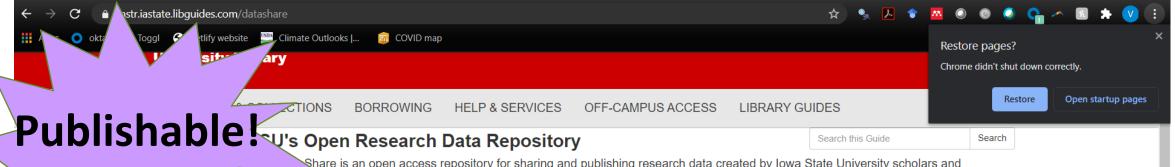




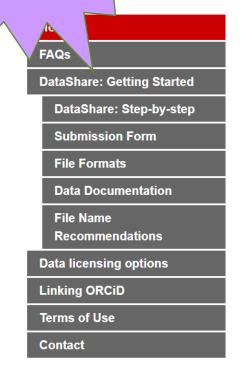








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Share your research data with confidence

Iowa State University's DataShare is an open access repository for sharing, publishing, and archiving research data created by Iowa State University scholars and researchers.





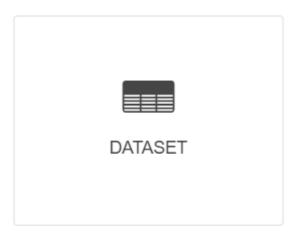
Summer Annual West Emergence in Soybean, West Technol 31,505-515, doi: 10.1015/sect.2017.10

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- 14. World P, Burr C, Stanco-Canquill 4 (2017) Cantal ryo carer crop suppresses winter annual weeds.

Effect of cover crops on weed biomass and density in the US...

Dataset posted on 02.04.2020

Virginia Nichols V



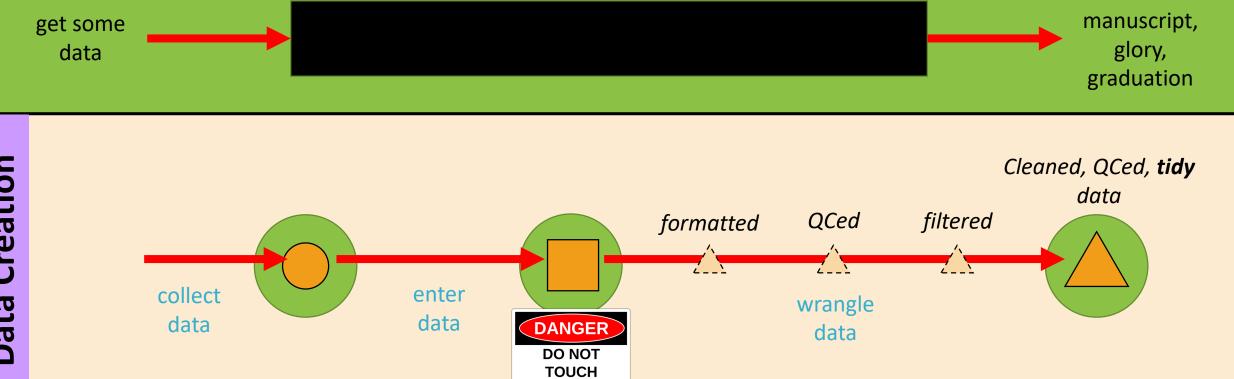
Effect of crop rotation on weed biomass and density literature...

Dataset posted on 09.07.2019

Virginia Nichols >

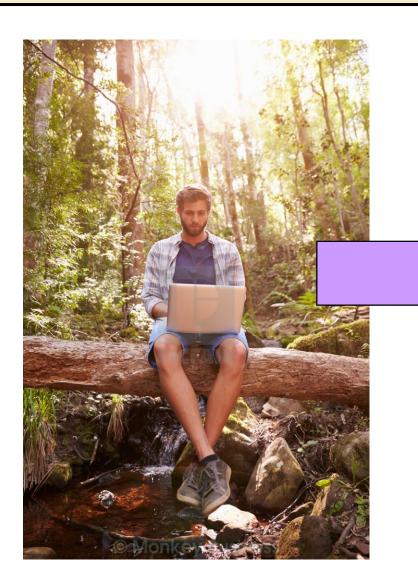
Nichols, Virginia; Weisberger, David; Liebman, Matt (2019): Effect of crop rotation on weed biomass and density literature summary. Iowa State University. Dataset. https://doi.org/10.25380/iastate.7771010.v2

Nichols, Virginia; Basche, Andrea D.; Weisberger, David (2020): Effect of cover crops on weed biomass and density in the US Midwest Corn Belt meta-analysis dataset. Iowa State University. Dataset. https://doi.org/10.25380/iastate.11933214.v1



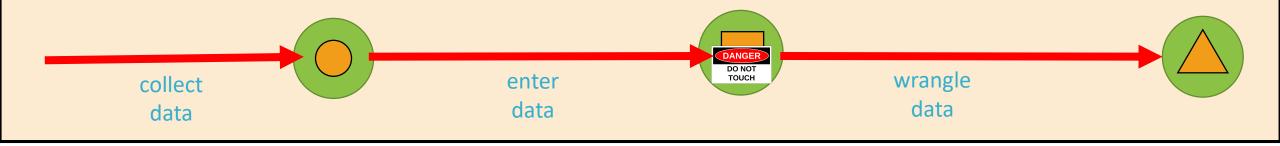
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1	492	1	AMRO	2016-05-11 19:01:00	yes	no
2	492	1	EABL	2016-05-11 19:53:00	yes	no
3	213	2	DOWO	2016-05-16 16:27:00	yes	yes
4	492	3	AMGO	2016-05-1706:55:00	yes	no
5	213	2	CLSW	2016-06-03 21:43:00	yes	no
6	213	2	GHOW	2016-06-03 22:24:00	no	yes
7	492	1	EABL	2016-06-06 18:28:00	yes	no
8	213	1	AMRO	2016-06-17 14:43:00	yes	yes
9	213	1	GBHE	2016-06-17 15:07:00	yes	no
10	213	1	PUFI	2016-06-17 15:45:00	yes	no
11	213	1	EABL	2016-06-17 16:00:00	yes	no
12	492	3	AMGO	2016-06-1807:42:00	yes	no





data

sighting_id	observer_id	location_id	species_id	date	visual_recognition	audio_recognition *
1	492	1	AMRO	2016-05-11 19:01:00	yes	no
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12	492	3	AMGO	2016-06-1807:42:00	yes	no

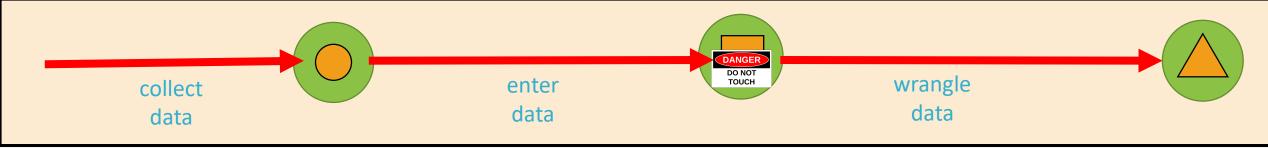


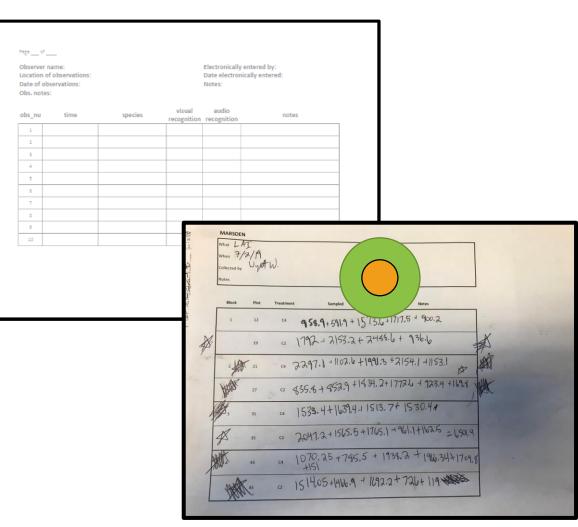


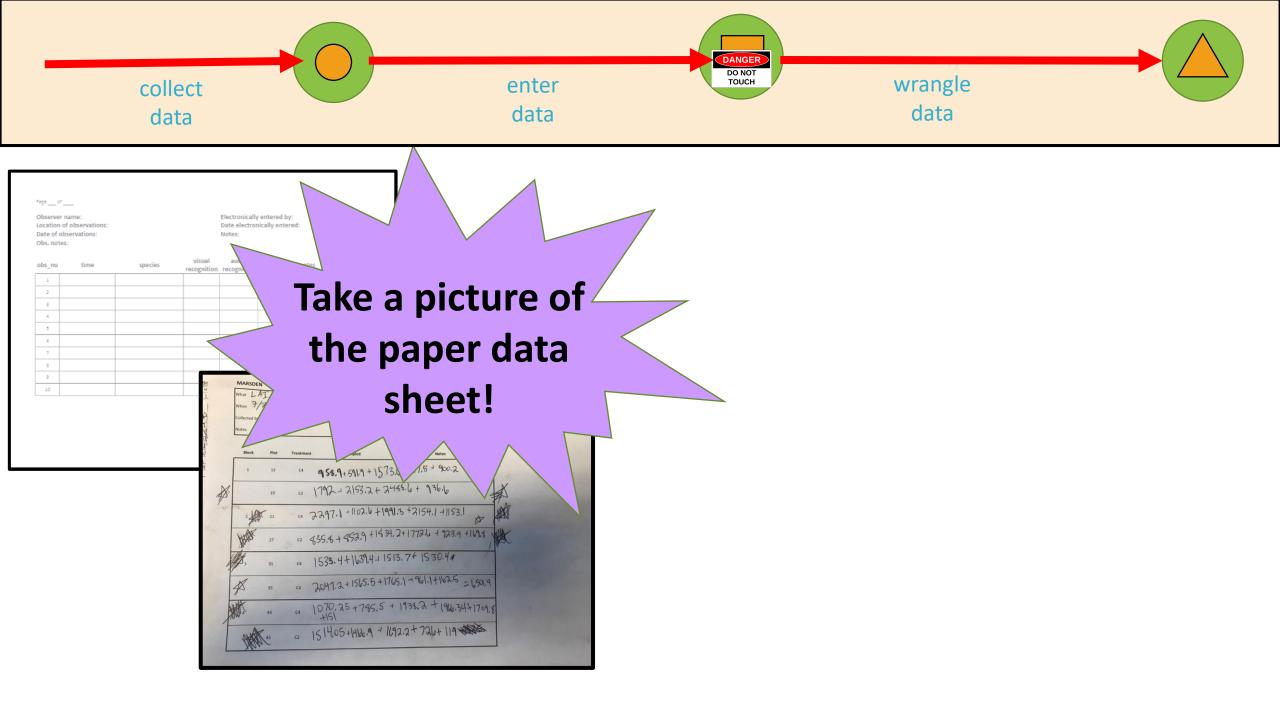
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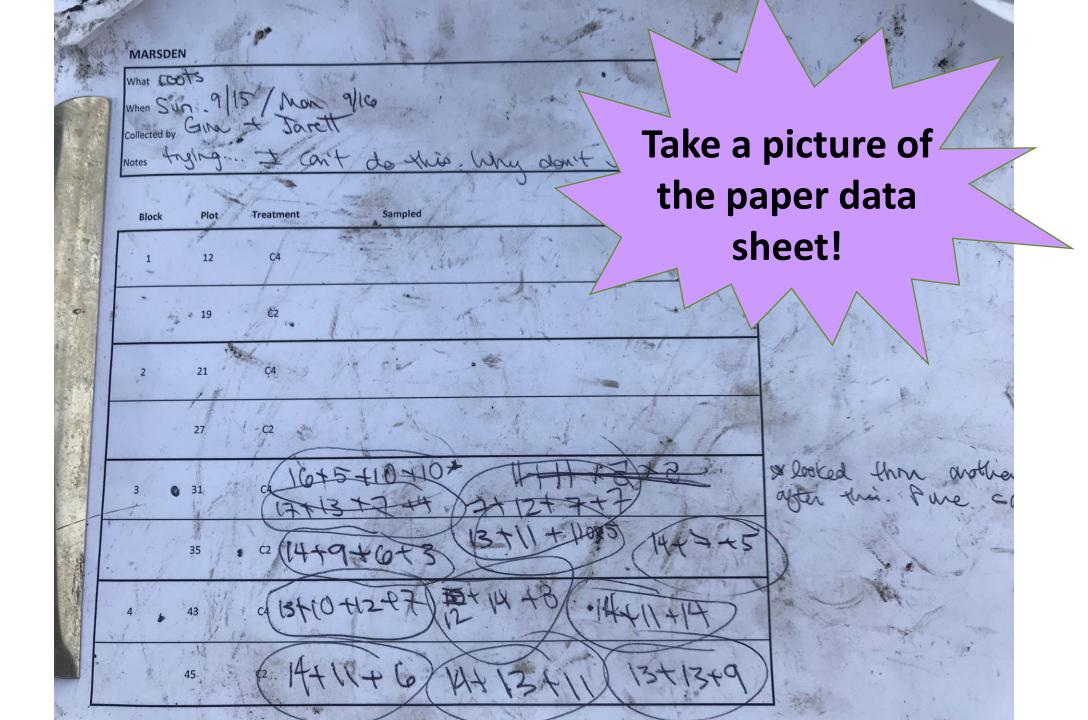


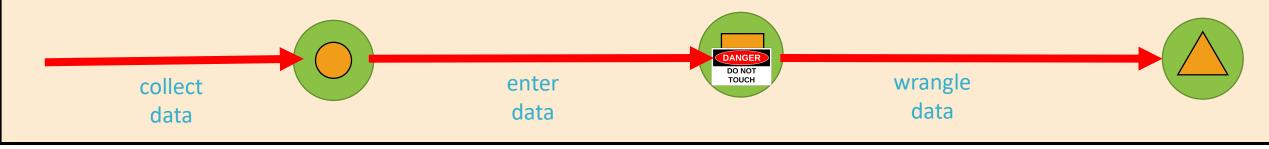
name	date	time	species	visual recognition	audio recognition	7						
	uste	time	species	Visual recognition	accio recognicion	1						
						1						
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						Page of						
						Observer				Electronically	entered by:	
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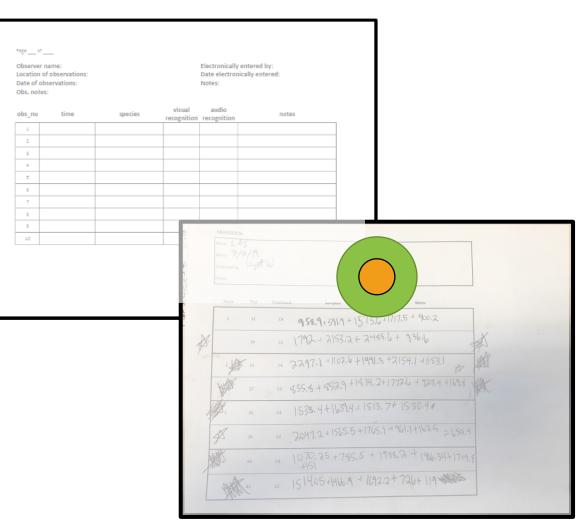


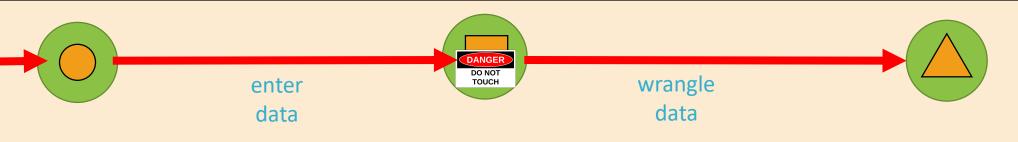


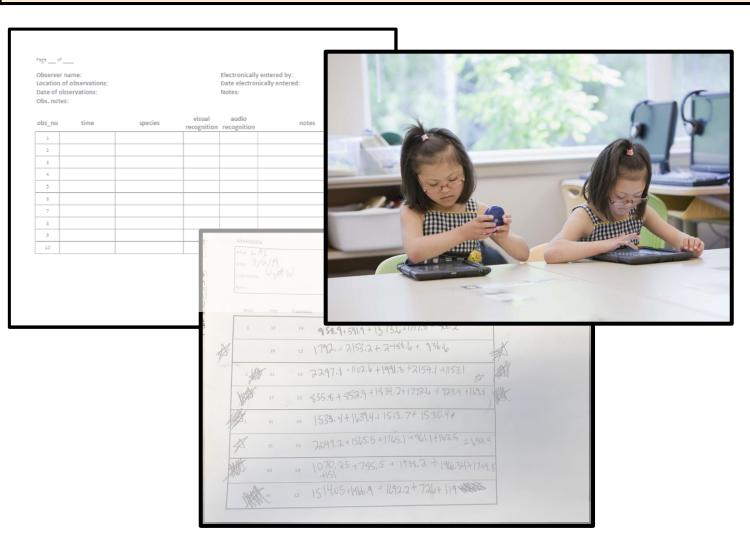




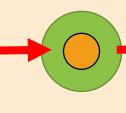








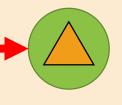
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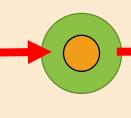
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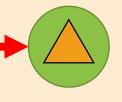
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enter data



wrangle data

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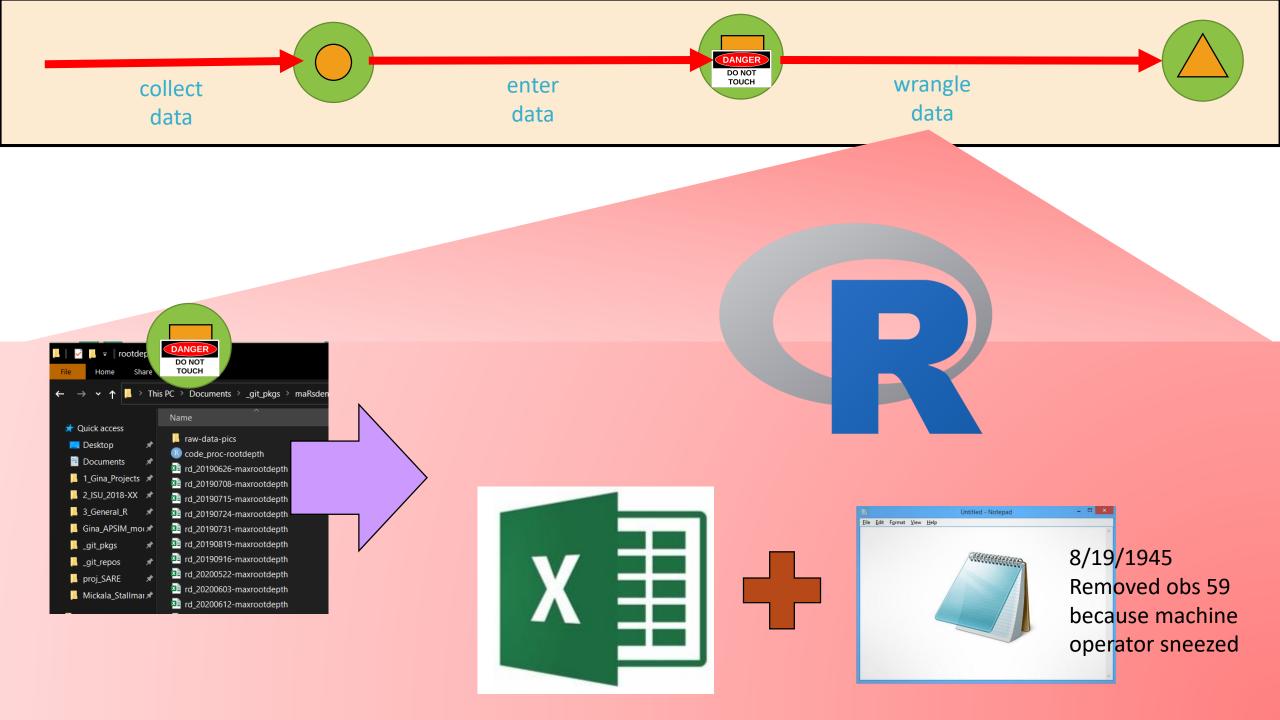
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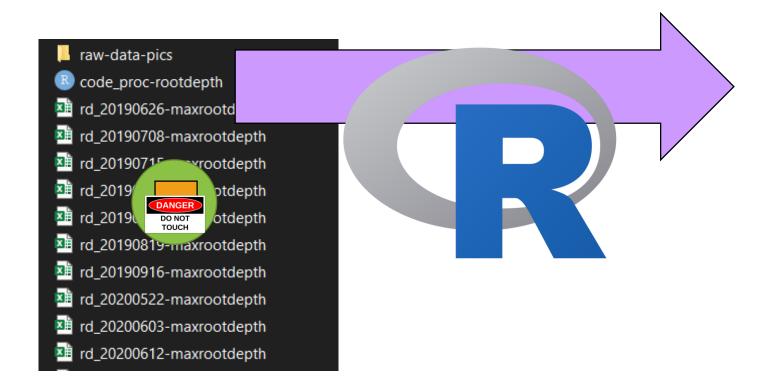
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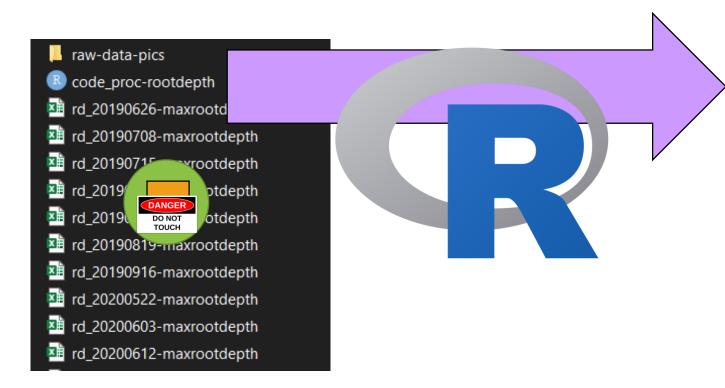
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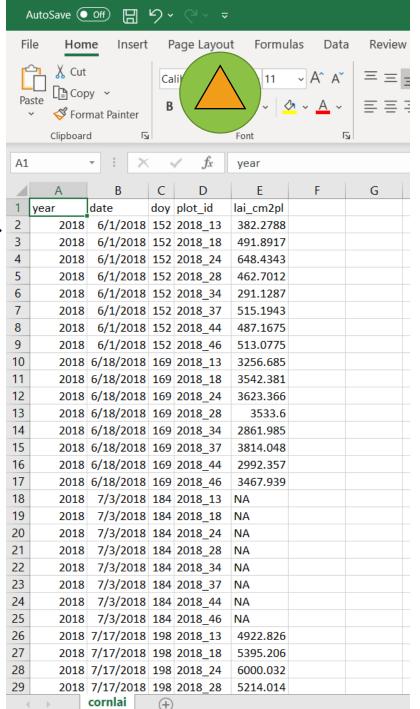
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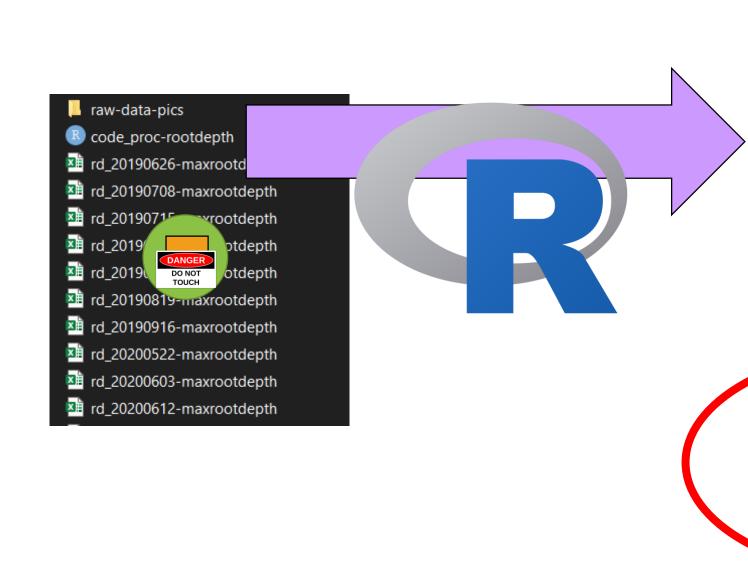
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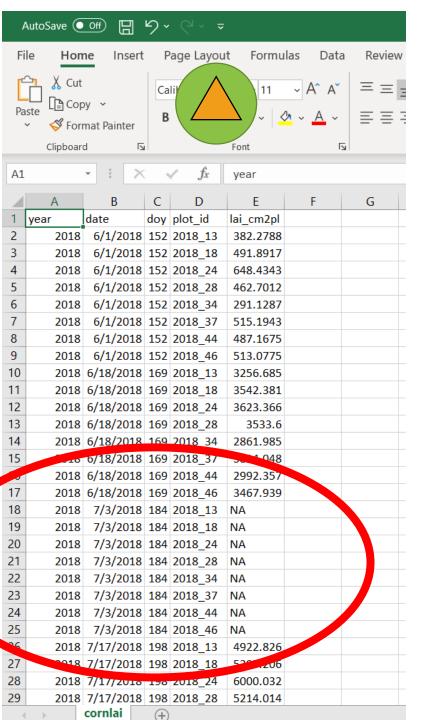


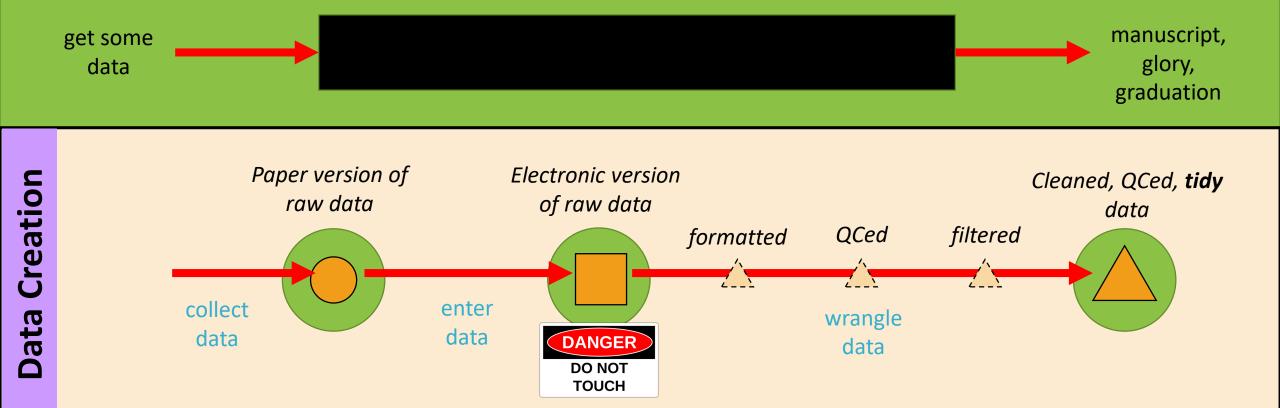


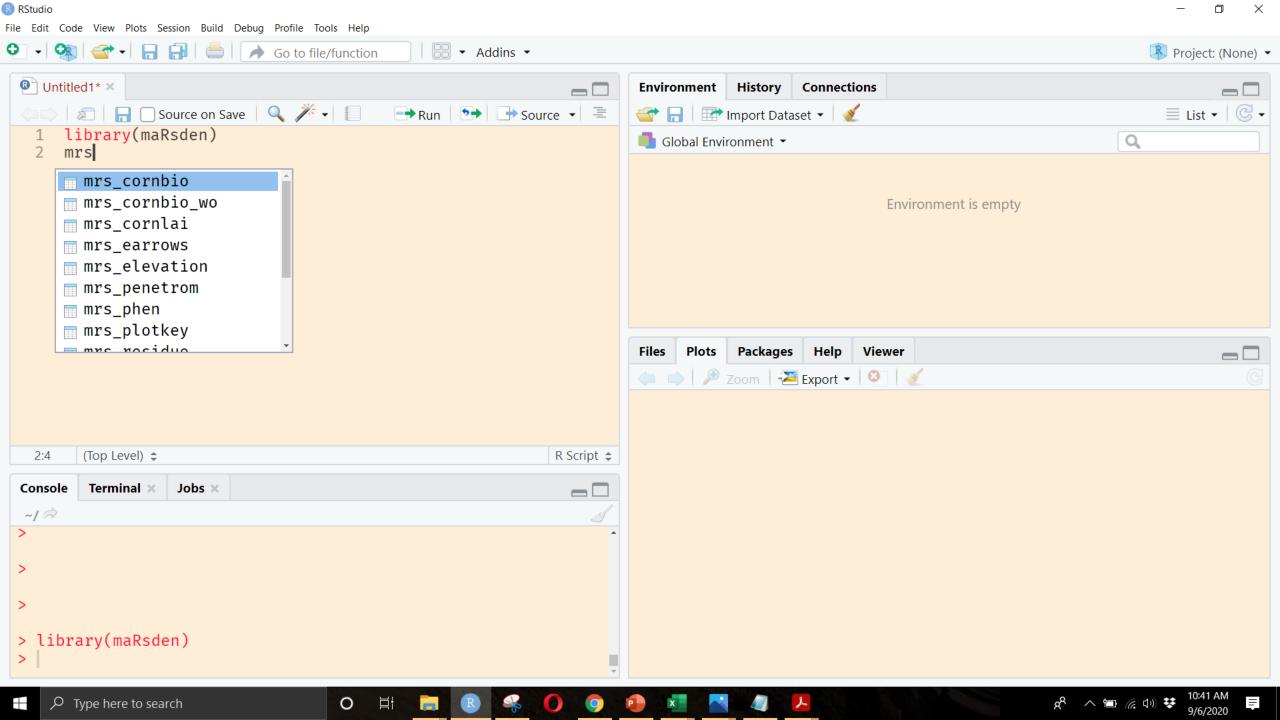


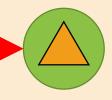












- Separate data collection and data analysis
- Consider publishing your data!
- Take pictures of paper copy of data
- Never touch the raw data

data

- Never touch the raw data
- If using Excel, consider learning R, but in the meantime keep a log of differences between raw data and tidy data



40 hours

- https://r4ds.had.co.nz/
- Stat579 (Intro to R and the tidyverse)
 - Every fall
- Stat585 (More advanced R, R packages)
 - Odd springs (spring 2021!)

- DataFEWSion program...?
- DataCamp

