Learning object type: An online resource on Research Data Management (RDM) designed and developed using Captivate and Vyond software. Show me.

Description: This first module in a 3-part series on research data management introduces the basic concepts and definitions of research data. What exactly is research data?

RDM Module 1: What is Research Data?

Screen No. 1 What is Research Data?

This module covers:
- basic concepts of research data
- research data in context

Description:
This is the starting screen. It has a stock banner image of a tray of test tubes on a tray with a pipette dispensing some pink liquid into one of the tubes. The heading is printed on a translucent sea green banner overlaid on the image. Right below it on the black background is a text description on what is covered in the module. There is an orange ‘Start’ button to the right of the text description, and a pink audio/speaker icon in the bottom left corner for muting purposes.
Heading:
What is Research Data?

Information caption:
This module covers:
- basic concepts of research data
- research data in context

Screen No. 2 Research Data - Definitions

Description:
This screen has a navigation header with 5 tabs aligned right on the slide. On this page, the first tab is highlighted. The main body of the slide contains several paragraphs of text. Two pink light bulbs are placed to the side of the main informational categories, with the actual information being rolled out horizontally on blue banners upon entry into the slide.

There is a NEXT button on the bottom right and a pink audio button on the bottom left.

Heading:
Research Data - Definitions

Navigation Tabs:

www.monash.edu/library
Last updated: 27/12/2019
1) Definitions; 2) More Info; 3) Activity: Data in Context; 4) Check Your Learning; 5) What’s Next?

Information caption:
(Category 1) Established Monash Definitions:

(Banner 1) Research data is defined broadly and principles are articulated, as much as possible, in format-agnostic ways. Data is produced and consumed in a variety of formats, including digital, print and physical, and the institution recognises that all formats need to be managed.

(Banner 2) Research data is the data, records, files or other evidence, irrespective of their content or form (e.g. in print, digital, physical or other forms), that comprise a research project’s observations, findings or outcomes, including primary materials and analysed data.

(Category 2) Research Councils UK (2016):

(Banner 3) Research data is evidence that underpins the answer to the research question, and can be used to validate findings regardless of its form (e.g. print, digital, or physical).

Screen No. 3 Research Data - More Info
Description:
On this screen, the second tab on the navigation header is now highlighted instead. Two pink light bulbs indicate two informational text passages.

There are BACK and NEXT buttons in the bottom left and right corners respectively. A pink audio/speaker icon is at the far bottom left corner.

Navigation Tabs:
1) Definitions; 2) More Info; 3) Activity: Data in Context; 4) Check Your Learning; 5) What’s Next?

Heading:
Research Data - More Info

Information caption:

Research data can be collected from within or beyond the laboratory
‘Research Data’ vs ‘Primary materials’

The dividing line between 'research data' and 'primary materials' will not be clear in many cases. For example, the Australian Code for the Responsible Conduct of Research implies that completed questionnaires and recordings are 'primary materials' while transcripts derived from them are ‘research data’ and that different standards for retention may apply.

Research data is necessary for the validation of research findings
Context matters

However, completed questionnaires and recordings may qualify as ‘factual records...used as primary sources for research’. If the research community regards them as necessary to validate research findings, then they qualify as research data and should be retained for the recommended period.
Description:
On this screen, the third tab on the navigation header is now highlighted instead. This is the index slide for an activity where you choose one of three contexts to explore.

There are BACK and NEXT buttons in the bottom left and right corners respectively. A pink audio/speaker icon is at the far bottom left corner.

Navigation Tabs:
1) Definitions; 2) More Info; 3) Activity: Data in Context; 4) Check Your Learning; 5) What’s Next?

Heading:
Research Data - Activity: Data in Context

Instruction caption:
Identify the research data in the following research contexts:

Choose one of the contexts below to begin exploring the research data involved in specific research areas

You will be able to return here at any time to choose another context.

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Last updated: 27/12/2019
**Context options:** (Context 1 is on Screen No. 5, Context 2 is one Screen No. 6, and Context 3 is on Screen No. 7)

( Context 1) Medicine
    Science

( Context 2) Business
    IT
    Engineering

( Context 3) Arts
    Humanities
    Social Science

**Navigation note:** You may skip the activity by proceeding to Screen 8.

**Screen No. 5 Identify the research data (Context 1: Health Sciences)**

**Description:**
This screen has a heading followed by an activity where you have to make selections from a gallery of sixteen labelled images. The 4x4 image gallery is on the right of the screen, while contextual information is provided in a speech bubble from a nurse character on the left. Between the character and the gallery, a text box provides further instructions. When any image in the gallery is clicked, the

[Image Link] www.monash.edu/library

Last updated: 27/12/2019
Heading:
Identify the research data (Context 1: Health Sciences)

Context caption:
I’m a practicing pediatrician currently contributing to a joint research project with other partners funded by external grants. Our research project involves testing the effects of Drug A and Drug B on cell growth among children below 5 years old who are diagnosed with stunted growth development patterns. My work involves collecting samples from the field, conducting experiments in the laboratory, performing and recording interviews, and analysing my findings using digital graphics and spreadsheets.

Instruction caption:
Which of the items displayed on the right would be considered data for this research project?

Click on the images to see if you can identify them all correctly.

Image labels (Answer options): (arrangement of gallery as table below; for the feedback, refer to Appendix A)

<table>
<thead>
<tr>
<th>Researcher Profiles</th>
<th>Literature Review</th>
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</tr>
<tr>
<td>Subject Photos</td>
<td>Computer Code</td>
<td>Maps &amp; Locations</td>
<td>Newspaper</td>
</tr>
</tbody>
</table>
Screen No. 6 Identify the research data (Context 2: IT)

Description:
This screen has a heading followed by an activity where you have to make selections from a gallery of sixteen labelled images. The 4x4 image gallery is on the right of the screen, while contextual information is provided in a speech bubble from a male character with headphones on the left. Between the character and the gallery, a text box provides further instructions. When any image in the gallery is clicked, the instructional text box will change into a feedback box to provide the corresponding feedback for your selection.

There is a Reveal Answers and Back button in the top right hand corner. A pink audio/speaker icon is at the far bottom left corner.

Heading:
Identify the research data (Context 2: IT)

Context caption:
I am researching the vulnerabilities in IT infrastructure that have resulted in extensive harm due to sensitive information being stolen. With a focus on attacks targeting the banking sector, I have been collecting data (via system log files) in order to attempt an analysis on the methods and code the perpetrators use to compromise security systems. My research is also supplemented by voice recordings of interviews with bank staff, as well as anonymised financial information provided by the banks.

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Last updated: 27/12/2019
systems. My research is also supplemented by voice recordings of interviews with bank staff, as well as anonymised financial information provided by the banks.

**Instruction caption:**
Which of the items displayed on the right would be considered data for this research project?

Click on the images to see if you can identify them all correctly.

**Image labels (Answer options):** (arrangement of gallery as table below; for the feedback, refer to Appendix A)

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</table>

**Screen No. 7 Identify the research data (Context 3: Social Sciences)**

Hello. I'm a historian, and my primary field of research is women's rights. For my current research project, I am taking a closer look at the treatment of women in the workforce and how it has changed since the 1920s. I will be looking at relevant news coverage from both newspapers and video news, as well as conducting interviews with women from a varied range of careers.

Which of the items displayed on the right would be considered data for this research project?

Click on the images to see if you can identify them all correctly.
**Description:**
This screen has a heading followed by an activity where you have to make selections from a gallery of sixteen labelled images. The 4x4 image gallery is on the right of the screen, while contextual information is provided in a speech bubble from a female character in a white dress shirt on the left. Between the character and the gallery, a text box provides further instructions. When any image in the gallery is clicked, the instructional text box will change into a feedback box to provide the corresponding feedback for your selection.

There is a Reveal Answers and Back button in the top right hand corner. A pink audio/speaker icon is at the far bottom left corner.

**Heading:**
Identify the research data (Context 3: Social Science)

**Context caption:**
Hello. I'm an historian, and my primary field of research is women's rights. For my current research project, I am taking a closer look at the treatment of women in the workforce and how it has changed since the 1920s. I will be looking at relevant news coverage from both newspapers and video news, as well as conducting interviews with women from a varied range of careers.

**Instruction caption:**
Which of the items displayed on the right would be considered data for this research project?

Click on the images to see if you can identify them all correctly.

**Image labels (Answer options):** (arrangement of gallery as table below; for the feedback, refer to Appendix A)

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Last updated: 27/12/2019
**Screen No. 7b (Transition Screen - from Screen 4)**

**Description:**
The BACK buttons in all 3 activity screens will lead you back to Screen 4, and this transitional screen will appear when you choose to click NEXT. Everything remains the same as in Screen 4, except the NEXT button has now been replaced with a pop-up box with a question to confirm your decision to proceed.

**Heading:**
Research Data - Activity: Data in Context

**Pop-up caption:**
Done with activity and ready to proceed to quiz?

**Options:**
- Yes (selecting yes will lead you to the next slide, Screen 8.)
- No (selecting no will close the pop-up box and leave you with Screen 4.)
**Screen No. 8 Check your learning**

The following quiz contains 5 questions, multiple choice and true/false only. It is highly recommended to take the quiz as there are several concepts that are only covered in the quiz.

**Description:**
On this screen, the fourth tab on the navigation header is now highlighted instead. It is the introduction page to the following activity, a quiz.

A text box provides instructions and beneath the text box are two buttons, TAKE QUIZ and SKIP QUIZ.

There are BACK and NEXT buttons in the bottom left and right corners respectively. The NEXT button is greyed out and disabled. A pink audio/speaker icon is at the far bottom left corner.

**Navigation Tabs:**
1) Definitions; 2) More Info; 3) Activity: Data in Context; 4) Check Your Learning; 5) What’s Next?

**Heading:**
Check your learning

**Instruction caption:**
The following quiz contains 5 questions, multiple choice and true/false only.

It is highly recommended to take the quiz as there are several concepts that are only covered in the quiz.

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Last updated: 27/12/2019
Navigation: If you choose to TAKE QUIZ, go to Screen 9. If you choose to SKIP QUIZ, go to Screen 14.

Screen No. 9 Question 1 of 5

Description:
This screen has a heading followed by a true/false question. There is a SUBMIT button at the bottom of the page. A pink audio/speaker icon is at the far bottom left corner.

Heading:
Question 1 of 5

Question text:
Literature reviews and grant documents are never research data.

Answer options: (for the correct answer, refer to Appendix A)
1. True
2. False
Description:
This screen has a heading followed by a true/false question.

There is a SUBMIT button at the bottom of the page. A pink audio/speaker icon is at the far bottom left corner.

Heading:
Question 2 of 5

Question text:
In the Monash University context, primary materials in a research project are research data.

Answer options: (for the correct answer, refer to Appendix A)
1. True
2. False
Description:
This screen has a heading followed by a multiple choice question with four answer options.

There is a SUBMIT button at the bottom of the page. A pink audio/speaker icon is at the far bottom left corner.

Heading:
Question 3 of 5

Question text:
When should you start to manage your research data and research records?

Answer options: (for the correct answer, refer to Appendix A)
1. From the very beginning of your project.
2. Before you submit your research for review and publication.
3. When there is a lot of data to manage.
4. Once you actually start to collect data.

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Last updated: 27/12/2019
Description:
This screen has a heading followed by a multiple choice question with four answer options.

There is a SUBMIT button at the bottom of the page. A pink audio/speaker icon is at the far bottom left corner.

Heading:
Question 4 of 5

Question text:
Data collected from an original source before being processed is usually called...

Answer options: (for the correct answer, refer to Appendix A)
1. Raw data
2. Unprocessed data
3. Fresh data
4. Primary data
This screen has a heading followed by a true/false question. There is a SUBMIT button at the bottom of the page. A pink audio/speaker icon is at the far bottom left corner.

**Heading:**
Question 5 of 5

**Question text:**
Research data and research records refer to the same thing.

**Answer options:** (for the correct answer, refer to Appendix A)
1. True
2. False
Screen No. 14 Research Data - What’s Next?

Description:
On this screen, the final tab on the navigation header is highlighted. A pink hand symbol beside a white instructional text box indicates that this is an interactive activity. Two large orange buttons are aligned left below the text box, while the same picture as the one in the starting screen (of the test tubes) is to the right of the buttons.

There are BACK and NEXT buttons in the bottom left and right corners respectively. A pink audio/speaker icon is at the far bottom left corner.

Navigation Tabs:
1) Definitions; 2) More Info; 3) Activity: Data in Context; 4) Check Your Learning; 5) What’s Next?

Heading:
Research Data - What’s Next?

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Last updated: 27/12/2019
Information caption:
Choose your path…

So you have your data… (There’s a mountain of data!) What now?

Answer options: (See Appendix B for feedback.)
1. Good quality data starts with good data management.

Screen No. 15 References

References


Description:
This screen has a heading followed by a list of references used in the development of the module.

There are BACK and NEXT buttons in the bottom left and right corners respectively. A pink audio/speaker icon is at the far bottom left corner.

Heading:
References
**Screen No. 16 Thanks and Acknowledgements**

**Description:**
This screen is the final screen of the module. It has a heading followed by three spherical text caption boxes.

There are BACK and NEXT buttons in the bottom left and right corners respectively. This slide also has a REVIEW FROM BEGINNING button if students would like to review the entire module from the start again. A pink audio/speaker icon is at the far bottom left corner.

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Last updated: 27/12/2019
Heading:
Thanks and Acknowledgements

Information caption:

(Sphere 1)
Sponsored and Produced by:

Library and Learning Commons
Monash University Malaysia

(Sphere 2)
Project Members:
  ● Isabelle Eula
  ● Sossamma George
  ● Namita Santra
  ● Khoo Tze Jien

(Sphere 3)
Special thanks to:
  ● Steven Yates (Project Adviser)
  ● The DLT team (Monash University Australia)
  ● Academy of Sciences Malaysia for their support
  ● All the students involved in the testing of this module.
Appendix A: Activity Answers

Screen 5

Context caption:
I'm a practicing pediatrician currently contributing to a joint research project with other partners funded by external grants. Our research project involves testing the effects of Drug A and Drug B on cell growth among children below 5 years old who are diagnosed with stunted growth development patterns. My work involves collecting samples from the field, conducting experiments in the laboratory, performing and recording interviews, and analysing my findings using digital graphics and spreadsheets.

Instruction caption:
Which of the items displayed on the right would be considered data for this research project?

Click on the images to see if you can identify them all correctly.

Correct Answers:

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</tr>
</tbody>
</table>

Feedback:

Researcher Profiles: No. Researcher profiles are generally not considered research data even though you still have to manage it.

Literature Review: No. Literature reviews are generally not considered research data even though you still have to manage it.

Grant Documents: No. Grant documents are generally not considered research data even though you still have to manage it.

Financial Statements: No. Financial statements are generally not considered research data even though you still have to manage it.
Experiment Log: Yes. The laboratory logs are evidence of research observations.

Video Recordings: Yes. Any video recordings of the interviews and research subjects in this research project would be important research data.

Audio Recordings: Yes. Interviews are an integral part of this research project.

Consent Forms: No. Consent forms are generally not considered research data even though you still have to manage it.

3D Graphics: Yes. The researcher mentions using 3D graphics to render and analyse drug interactions.

Drug Prep: Yes. The drug information for drugs A and B are research data in this project.

Cell Images: Yes. This researcher is studying the effects of drugs on cells, so any images taken for documentation would be research data.

Spreadsheets: Yes. Comparative data is captured in spreadsheets in this research project.

Subject Photos: Yes. It is highly likely that the researcher will be taking photos of stunted growth development in children during her research. *related ethics approval required for this data.

Computer Code: No. Computer codes are not research data in this project.

Maps & Locations: No. The researcher may keep records of the locations visited, but this is likely not relevant data in her research project.

Newspaper: No. Newspapers are not research data in this project.

**Screen 6**

**Context caption:**
I am researching the vulnerabilities in IT infrastructure that have resulted in extensive harm due to sensitive information being stolen. With a focus on attacks targeting the banking sector, I have been collecting data (via system log files) in order to attempt an analysis on the methods and code the perpetrators use to compromise security systems. My research is also supplemented by voice recordings of interviews with bank staff, as well as anonymised financial information provided by the banks.

**Instruction caption:**
Which of the items displayed on the right would be considered data for this research project?

Click on the images to see if you can identify them all correctly.

**Correct Answers:**

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</table>

**Feedback:**

Researcher Profiles: No. Researcher profiles are generally not considered research data even though you still have to manage it.

Literature Review: No. Literature reviews are generally not considered research data even though you still have to manage it.

Grant Documents: No. Grant documents are generally not considered research data even though you still have to manage it.

Financial Statements: Yes. Financial statements are likely part of the financial information provided by the banks.

Experiment Log: No. There are no experiment logs in this research project.

Video Recordings: No. The interviews are only audio-recorded and not video-recorded.

Audio Recordings: Yes. The interviews with the bank staff are part of this researcher’s data.

Consent Forms: No. Consent forms are generally not considered research data even though you still have to manage it.

3D Graphics: No. This research project does not involve 3D graphics.

Drug Prep: No. Drug information is not part of this research project.
Cell Images: No. Biological cells are not examined in this research project.

Spreadsheets: No. The researcher does not mention recording data in spreadsheets.

Subject Photos: No. The researcher is not taking photos of any human subjects in this research project.

Computer Code: Yes. Analysis of computer code is an important component of this research project.

Maps & Locations: No. The researcher may track the location of the banks he visited, but there isn’t enough info to tell if this info will be analysed in his project.

Newspaper: No. Newspapers are not research data in this project.

**Screen 7**

**Context caption:**
Hello. I’m an historian, and my primary field of research is women’s rights. For my current research project, I am taking a closer look at the treatment of women in the global workforce and how it has changed since the 1920s. I will be looking at relevant news coverage from both newspapers and video news, as well as conducting interviews with women from a varied range of careers.

**Instruction caption:**
Which of the items displayed on the right would be considered data for this research project?

Click on the images to see if you can identify them all correctly.

**Correct Answers:**

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**Feedback:**

[www.monash.edu/library](http://www.monash.edu/library)

Last updated: 27/12/2019
Researcher Profiles: No. Researcher profiles are generally not considered research data even though you still have to manage it.

Literature Review: No. Literature reviews are generally not considered research data even though you still have to manage it.

Grant Documents: No. Grant documents are generally not considered research data even though you still have to manage it.

Financial Statements: No. Financial statements are generally not considered research data even though you still have to manage it.

Experiment Log: No. There are no experiment logs in this research project.

Video Recordings: Yes. The video news, as well as any video recordings of the interviews would be important research data.

Audio Recordings: Yes. Interviews are an integral part of this research project.

Consent Forms: No. Consent forms are generally not considered research data even though you still have to manage it.

3D Graphics: No. This research project does not involve any 3D graphics.

Drug Prep: No. There is no drug information relevant to this research.

Cell Images: No. This researcher will not be examining any biological cells.

Spreadsheets: No. It is not clearly stated that spreadsheets will be used in the analysis of the data.

Subject Photos: Possibly. Some photographs from the news or images related to the women being interviewed might become research data in this project.

Computer Code: No. Computer codes are not research data in this project.

Maps & Locations: Yes. The researcher will be looking for patterns within data from several locales. Hence, the location information is relevant data.

Newspaper: Yes. Newspaper articles on women’s rights would be studied in this project.
Question text:
Literature reviews and grant documents are never research data.

Feedback:

- True
  That's correct!
  Research data depends on the nature and context of your research. Anything can be research data depending on context. For example, if a researcher decides to study the manner in which students of a particular field structure their literature reviews, the collected literature reviews for analysis would be research data.

- False
  Research data depends on the nature and context of your research. Anything can be research data depending on context. For example, if a researcher decides to study the manner in which students of a particular field structure their literature reviews, the collected literature reviews for analysis would be research data.

Question text:
In the Monash University context, primary materials in a research project are research data.

Feedback:

- True
  That's right. The definitions slide has established this.

- False
  Primary materials are part of research data. Please refer to the definitions slide in this module again for further clarification.

Question text:
When should you start to manage your research data and research records?

Correct answer:

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Last updated: 27/12/2019
● From the very beginning of your project.

Feedback: That's right! :) You should plan how to manage your research data from the very beginning of your research. This will save you time and effort down the line.

Incorrect answers:
- Before you submit your research for review and publication.
- When there is a lot of data to manage.
- Once you actually start to collect data.

Feedback: You should plan how to manage your research data from the very beginning of your research. This will save you time and effort down the line.

Screen 12

Question text:
Data collected from an original source before being processed is usually called...

Correct answer:
- Raw data

Feedback: That’s correct!

Incorrect answers:
- Unprocessed data
- Fresh data
- Primary data

Feedback: That's incorrect. Data that has been processed is analysed or processed data whereas, raw data is data collected from an original source before being processed.

Screen 13

Question text:
Research data and research records refer to the same thing.

Feedback:

● True
  That’s right! Research data and research records refer to different things.

Research data
the data, records, files or other evidence, irrespective of their content or form (e.g. in print, digital, physical or other forms),
that comprise a research project’s observations, findings or outcomes, including primary materials and analysed data.

Research records
information created, received, used or maintained as evidence of, or information about the official business and decision-making related to research activities, in print, digital or physical forms.

False
No, research data and research records refer to different things.

Research data
the data, records, files or other evidence, irrespective of their content or form (e.g. in print, digital, physical or other forms), that comprise a research project’s observations, findings or outcomes, including primary materials and analysed data.

Research records
information created, received, used or maintained as evidence of, or information about the official business and decision-making related to research activities, in print, digital or physical forms.
Appendix B: Video Transcript

Screen 14

Feedback caption:
Good quality data starts with good data management.
Good job! You're on the right track to building your data integrity and contributing as a responsible researcher.

Watch what could happen if you don't manage your research data properly.
(Click anywhere on this box to start video.)

Are you sure?
Here are some possible disasters that await you…
(Click anywhere on this box to start video.)

Transcript of video feedback: (Both options lead to the same video.)

[Girl A walks into a room and takes a seat. There are 3 other people there, Boy A, Boy B, and Girl B. The three of them seem to be in low spirits. Girl A frowns in concern.]

Girl A: What's going on? What happened?
[slight pause]

Boy A: You won't believe what happened to me last night.
[Flashback to scene of Boy A walking alone at night with a backpack over his shoulders.]

Boy A: So I was walking home from university when …
[A thief appears and pushes Boy A to the ground as he runs off with Boy A's backpack.]

Boy A: Noooooo! My data! My work!
[Flashback ends.]

Girl A: I'm sorry to hear that.

Girl B: I also lost a great deal of data this morning.
[Flashback to scene of Girl B chatting with her supervisor in his office. Through a window, we can see that it is raining heavily outside.]

Girl B: I was with my supervisor and we were reviewing something on my laptop. And then …
[thunder rumbles]
[sparks fizzing]
[crackles of something burning]
[Girl B and her supervisor are shown looking on in horror at her sparking and smoking laptop.]
**Girl B:** All that work. Gone! Just like that.
[Flashback ends.]

[Girl A looks at Boy B, who seems really depressed and zoned out as he stares at the laptop in front of him.]
**Girl A:** Oh dear. I'm almost afraid to ask, but what happened to you?

**Boy B:** My story isn't as dramatic as theirs.
**Boy B:** I woke up this morning, turned on my computer, and …
[Boy B stands up and flips his laptop around so that the screen is visible.]
**Boy B:** This. This is all that is left of my data.
**Boy B:** Two years of work. Gone.

**Girl A:** How awful! Still, didn't you all keep backups of your data?
[The jaws of Boy A, Girl B, and Boy B drop and their eyes grow wide in stunned realisation.]
[A door slams and Girl C runs into the room.]

**Girl C:** I can't believe I'm being accused of research misconduct! I accidentally released some personal information on my participants. It was an honest mistake!
**Girl C:** Now I have to deal with the ethics panel AND I have to collect my data again!

[The screen turns dark, then lights up again with a spotlight shining down on Girl A. The room and its other occupants are no longer visible.]
**Girl A:** How unfortunate. It is best practice to anonymize sensitive data.
**Girl A:** These are some of the consequences of poor data management planning and bad data management practices that can lead to research misconduct. Don't let it happen to you!