

(UPPERCASE except for *Scientific names*)
RESEARCH PROJECT TITLE

A research paper submitted to the
Faculty of the Philippine Science High School-
Cordillera Administrative Region Campus
in fulfillment of the course requirements in
Science, Technology, Engineering and Mathematics Research

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APPROVAL SHEET

In fulfillment of the requirements in Science, Technology, Engineering and Mathematics Research 3 (STR 3), this research entitled, "RESEARCH PROJECT TITLE" is submitted by Researcher D. Uno, Aña B. Itto and Scholar N. Bayan on 13 May 2019

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ACKNOWLEDGEMENT

“For academic theses, there is no right or wrong way to acknowledge people, and who you want to acknowledge is down to personal preference. However, the common types of people authors acknowledge in their academic theses include: Their supervisor’s contributions, the research group (especially if the thesis in question is a master’s and the work is helped along by a PhD student), the support staff (laboratory technicians etc.), any students who undertook side projects with them (e.g. final year undergraduates, summer students, master’s students), administrative staff (there can be a lot of bureaucracy for thesis submissions), . . . , their funding bodies, any collaboration with industry and the people they worked with at said establishment(s), friends, colleagues, and family” (The Charlesworth Group, 2020)

ABSTRACT

Researcher D. Uno, Aña B. Itto and Scholar N. Bayan. Philippine Science High School —
Cordillera Administrative Region Campus, 13 May 2019. "RESEARCH PROJECT TITLE"

Adviser: **Adviser C. Adviser**

According to George Mason University (2020), “An abstract is a 150- to 250-word paragraph that provides readers with a quick overview of your essay or report and its organization. It should express your thesis (or central idea) and your key points; it should also suggest any implications or applications of the research you discuss in the paper.”. George Mason University (2020) also states that the common abstract is divided into such: 25% of space on the purpose and importance of the research (Introduction), 25% of space on what was done (Methods), 35% of space on what was found (Results), and 15% of space on the implications of the research.

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CHAPTER I INTRODUCTION

Background of the Study

“The background of the study establishes the context of the research. This section explains why this particular research topic is important and essential to understanding the main aspects of the study. Usually, the background forms the first section of a research article/thesis and justifies the need for conducting the study and summarizes what the study aims to achieve.” (Sachdev, 2018)

In the article “How to Write the Background of Your Study” by Sachdev, the ideal background is structured as follows: the current knowledge on the broad topic, the gaps in knowledge that needs to be addressed, the significance of addressing said gaps, and then the rationale of the study.

This paragraph is a demonstration of the features of the package `biocon`. For example, *Arabidopsis thaliana*. *Arabidopsis thaliana* (L.) Heynh. is a plant (extended representation). *A. thaliana* is composed of plant stuff. Another example is *Escherichia coli*. *E. coli* is a form of bacteria. *E. coli* is made of bacteria stuff. This is *Escherichia coli* in full.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

This is the second paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you

information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

Objectives of the Study

General Objective

- To identify factors that affects the acceptability of Voluntary Counselling and Testing (VCT) services and to assess community attitudes towards comprehensive care and support for people living with HIV/AIDS.

Specific Objectives

1. To assess the knowledge, attitude and practice of the community towards HIV/AIDS and VCT services.
2. To identify barriers and concerns related to VCT and its uptake.
3. To assess the awareness and perception of the study community regarding comprehensive care and support for people living with HIV/AIDS.

Significance of the Study

“Significance of the study is written as part of the introduction section of a thesis. It provides details to the reader on how the study will contribute to society such as what the study will contribute and who will benefit from it. It also includes an explanation of the work’s importance as well as its potential benefits. It is sometimes called rationale.” (“Writing Thesis Significance of the Study – Thesis Notes”, 2016)

Always keep in mind the main stakeholders that are affected by the problem that you tackle in the study. List down the major benefits of your study to your stakeholders.

Scope and Limitations of the Study

“When identifying the scope, you need to address not only the problem or issue that you want to study but the population that you want to examine.” (Ask Media Group, 2020). Remember to narrow your scope down as much as possible to ensure efficiency and accuracy during the execution of the research.

“There are numerous limitations that can impact your ability to complete quality research. Research limitations may be methodological (related to how the study is completed) or a lack of researcher resources (such as time and research funds).” (Ask Media Group, 2020).

Methodological limitations concerns the sample of the study and the efficiency of past techniques. This may include the size and diversity of the sample as well as the amount of research previously done that you can base your methods on (Ask Media Group, 2020).

Researcher-related limitations include time, budget and physical constraints, as well as personal biases that might impact the flow of the research (Ask Media Group, 2020).

DEFINITION OF TERMS

Banana – an elongated usually tapering tropical fruit with soft pulpy flesh enclosed in a soft usually yellow rind (Merriam-Webster, n.d.-a)

Definition – something you place here in the Definition of Terms to clarify your paper

Fruit – the usually edible reproductive body of a seed plant

especially: one having a sweet pulp associated with the seed (Merriam-Webster, n.d.-b)

Pig – a dirty, gluttonous, or repulsive person (Merriam-Webster, n.d.-c)

CHAPTER II

REVIEW OF RELATED LITERATURE

McCombes (2019) lists five (5) important steps in writing an effective literature review: **Search** for relevant literature, **evaluate** sources, **identify** themes, debates and gaps, **outline** the structure, and **write** the literature review itself.

Searching for Relevant Literature

Hardy (2020) provides a proper guide for searching effectively for a literature review. The following ideas are abridged versions of the common search techniques employed when writing an effective literature review. To begin searching, one must perform an analysis of the research topic. This analysis must tackle the main ideas and synonyms, related words and phrases, and concepts and ideas already covered about the research topic. In modern search engines, keywords exist to make searches more efficient such as: **OR** for synonymous terms, **AND** for joining words that make up the main ideas, and **NOT** for exclusion of irrelevant terms (Hardy, 2020).

McCombes (2019) lists the following databases that might aid in the search for related literature:

- Google Scholar (<https://scholar.google.com/>)
- JSTOR (<https://www.jstor.org/>)
- EBSCO (<https://www.ebsco.com/products/research-databases>)
- Project Muse for humanities and social sciences (<http://muse.jhu.edu/>)
- Medline for life sciences and biomedicine (<https://www.nlm.nih.gov/bsd/medline.html>)
- EconLit for economics (<https://www.aeaweb.org/econlit/>)
- Inspec for physics, engineering and computer science (<https://www.theiet.org/publishing/inspec/>)

The importance of a proper abstract is highlighted during the search for related literature, as the abstract of a work will assist future researchers in selecting the work if they find the abstract to be relevant with their own research (McCombes, 2019).

Evaluating and Selecting Sources

McCombes (2019) emphasizes the fact that one cannot read and digest every single work written about the research topic, therefore each source should be evaluated to filter out the most relevant sources for the study. McCombes (2019) further writes:

“For each publication, ask yourself:

- What question or problem is the author addressing?
- What are the key concepts and how are they defined?
- What are the key theories, models and methods? Does the research use established frameworks or take an innovative approach?
- What are the results and conclusions of the study?
- How does the publication relate to other literature in the field? Does it confirm, add to, or challenge established knowledge?
- How does the publication contribute to your understanding of the topic? What are its key insights and arguments?
- What are the strengths and weaknesses of the research?

Make sure the sources you use are credible, and make sure you read any landmark studies and major theories in your field of research.

The scope of your review will depend on your topic and discipline: in the sciences you usually only review recent literature, but in the humanities you might take a long historical perspective (for example, to trace how a concept has changed in meaning over time).”

The need to take notes and keep track of sources is stressed by McCombes (2019) by mentioning plagiarism. Plagiarism is defined by Merriam-Webster (n.d.-d) as “[the act of] steal[ing] and pass[ing] off (the ideas or words of another) as one’s own : us[ing] (another’s production) without crediting the source”. Such an act is frowned upon in the academic field, and must be avoided as much as possible.

One may use bibliography management software to keep notes and source information that might be valuable later on in paper writing. Notes that are attached to a bibliographic entry in a bibliography management software can save time later on when one must remember the details of the source listed. Modern bibliography management software such as **Zotero** (<https://www.zotero.org/>) and **Mendeley** (<https://www.mendeley.com/>) usually have the capability to maintain and track sources and said notes with the addition of producing citations and bibliographies as well as files for paper-writing software such as \LaTeX (via \BibTeX and \BibLaTeX).

Identifying Themes, Debates, and Gaps

“To begin organizing your literature review’s argument and structure, you need to understand the connections and relationships between the sources you’ve read. Based on your reading and notes, you can look for:

- Trends and patterns (in theory, method or results): do certain approaches become more or less popular over time?
- Themes: what questions or concepts recur across the literature?
- Debates, conflicts and contradictions: where do sources disagree?
- Pivotal publications: are there any influential theories or studies that changed the direction of the field?
- Gaps: what is missing from the literature? Are there weaknesses that need to be addressed?

This step will help you work out the structure of your literature review and (if applicable) show how your own research will contribute to existing knowledge.” (McCombes, 2019)

Outlining the Structure of the Literature Review

There are four (4) major principles of organization one may use in writing an effective Literature Review, and these are: Chronological Order or Order of Time, Spatial Order, Climactic Order or Order of Importance, and Topical Order (Friedlander, 2004).

Chronological Order

“Chronological order can suit different rhetorical modes or patterns of exposition. It naturally fits in narration, because when we tell a story, we usually follow the order in which events occur. Chronological order applies to process in the same way, because when we describe or explain how something happens or works, we usually follow the order in which the events occur. But chronological order may also apply to example, description, or parts of any other pattern of exposition.” (Friedlander, 2004)

Spatial Order

“In this pattern, items are arranged according to their physical position or relationships. . . . In explaining some political or social problem, I might discuss first the concerns of the East Coast, then those of the Midwest, then those of the West Coast. Describing a person, I might start at the feet and move up to the head, or just the other way around. This pattern might use such transitions as just to the right, a little further on, to the south of Memphis, a few feet behind, in New Mexico, turning left on the pathway, and so on.” (Friedlander, 2004)

Climactic Order

“In this pattern, items are arranged from least important to most important. Typical transitions would include *more important, most difficult, still harder, by far the most expensive, even more damaging, worse yet*, and so on. This is a flexible principle of organization, and may guide the organization of all or part of example, comparison & contrast, cause & effect,

and description.

A variation of climactic order is called psychological order. This pattern or organization grows from our learning that readers or listeners usually give most attention to what comes at the beginning and the end, and least attention to what is in the middle. In this pattern, then, you decide what is most important and put it at the beginning or the end; next you choose what is second most important and put it at the end or the beginning (whichever remains); the less important or powerful items are then arranged in the middle. If the order of importance followed 1, 2, 3, 4, 5, with 5 being most important, psychological order might follow the order 4, 3, 1, 2, 5.

Still other principles of organization based on emphasis include:

- general-to-specific order,
- specific-to general order,
- most-familiar-to-least-familiar,
- simplest-to-most-complex,
- order of frequency,
- order of familiarity, and so on.

” This principle of organization is one of the most common.(Friedlander, 2004)

Order of Importance

“[The Order of Importance] refers to organization that emerges from the topic itself. For example, a description of a computer might naturally involve the separate components of the central processing unit, the monitor, and the keyboard, while a discussion of a computer purchase might discuss needs, products, vendors, and service. A discussion of a business might explore product, customer, and location, and so on. Topical order, then, simply means an order that arises from the nature of the topic itself. Transitions in this pattern will be

a little vague—things like *another factor, the second component, in addition*, and so on.”
(Friedlander, 2004)

Writing the Literature Review

In writing a literature review, one must follow the general structure: introduction, main body, and then conclusion. In the introduction, the central problem of the research must be reiterated and a summary must be provided of the current academic context. Here the timeliness of the topic or the presence of a knowledge gap is highlighted. In the body, subheadings divide major parts that are highlighted in the outline. One must keep in mind the following ideas (McCombes, 2019):

- an overview of the main points of each source must be noted and combined into one coherent whole
- analyses and interpretations must be provided regarding the findings of each source with respect to the research
- the strengths and weaknesses of each source must be stated
- the topic sentence of each paragraph must be clear and the flow between paragraphs must be maintained with transitions

In the conclusion, the key findings of each related literature should be summarized with emphasis on their significance to the research (McCombes, 2019).

CHAPTER III MATERIALS AND METHODS

Research Design

Labaree (2020) states: “The function of a research design is to ensure that the evidence obtained enables you to effectively address the research problem logically and as unambiguously as possible.”. You may use the article by Labaree (2020) to figure out which research design will suit your study the best. In this section of the paper, the research design is described, as well as the independent and dependent variables involved. The description of how identified extraneous variables are held constant is also elaborated in the Research Design section. If the study is developmental in nature, the stages of development may be stated in this section.

Locale of the Study

The places where the study is executed should be stated in the Locale of the Study. The population where samples are taken, as well as the sample size, should be mentioned here. This section must also contain the reasoning for choosing the locale, with respect to the scope and limitations of the study.

Materials and Research Instruments

The materials required in the study as well as any instrumentation to be used should be mentioned in the Materials and Research Instruments. The reasoning may involve any past researches or research-based handbooks that are relevant to the study and are published works (as published works tend to be peer-reviewed). An example of a research-based handbook is Letcher (2017).

Procedures

An elaborate and chronological description of the procedures to be taken is provided in this section. The proper reasoning for each step taken should be stated, as well as what

materials and research instruments are used in each step.

Subheadings

Subheadings may be used to provide logical divisions of the procedure.

Treatment of Data

Statement of Hypotheses

$$H_0 : \mu = 50$$

$$H_a : \mu > 50$$

Analysis of Data

The statistical tools as well as the significance level to be used is mentioned in this portion of the paper. How the statistical tools will be used should also be detailed in this section.

CHAPTER IV RESULTS AND DISCUSSION

Results

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

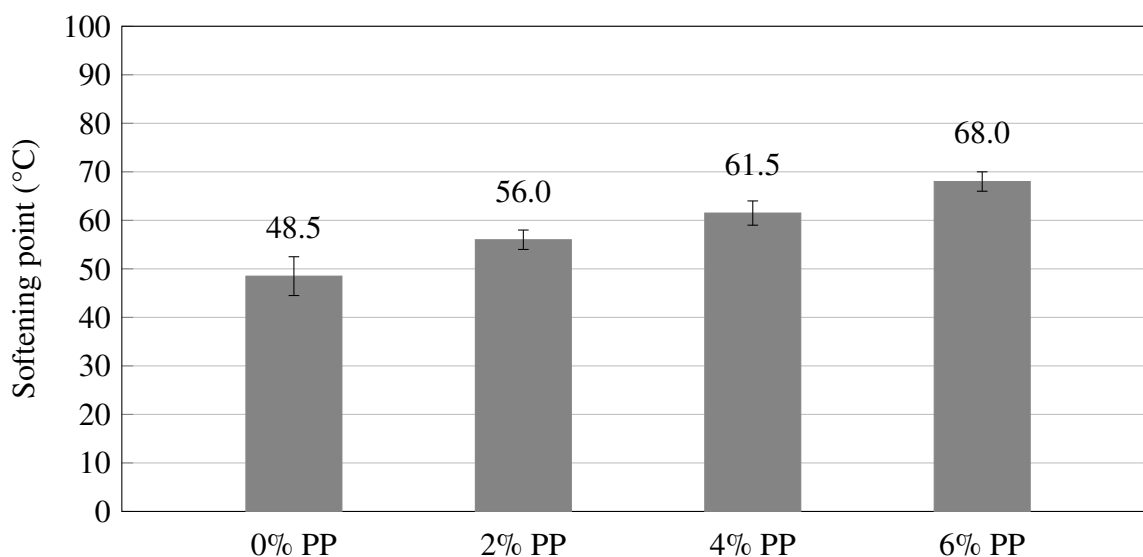


Figure 1: Sample bar graph of softening points.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need

for special content, but the length of words should match the language.

Table 1: Characteristics of the Sample[†]

Variable	Control (n = 45)	Heat & moisture exchanger (n = 49)	Probability
Age (years) ¹	32.7 ± 3.5	36.3 ± 2.7	0.08
Height (m) ¹	1.72 ± 0.60	1.67 ± 0.80	NS
Weight (kg) ¹	76.6 ± 12.8	72.3 ± 16.2	NS
Gender (number of males) ²	21	26	NS
ASA Physical Status ³	2 ± 1	2 ± 1	NS
OR room temperature (°C) ¹	21.1 ± 3.6	20.6 ± 2.9	NS

¹ Data is expressed as mean ± one standard deviation. Probability determined using a two-tailed, unpaired Student's t-test.

² Data is expressed as number within the sample who possess the characteristic. Probability determined using Chi square (or Fisher's Exact test for 2 × 2 tables).

³ Data is expressed as median ± one interquartile range. Probability determined using a Mann-Whitney U test.

[†] Taken from Dosch (2009)

Take advantage of `siunitx` package like so: $(5.67 \pm 0.12) \times 10^6 \text{ A}$.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

$$E = mc^2 \quad (1)$$

$$x(t) = \int_{-B}^B X(f) e^{j2\pi ft} df \quad (2)$$

The solution to Equation 1 is Equation 2 and is shown in Figure 1 and Table 1 (Al-Shemmeri, 2010) (Listing 1).

CHAPTER V

CONCLUSION AND RECOMMENDATIONS

“The Conclusions and Recommendations may be combined or, in long reports, presented in separate sections. If there are no recommendations to be made as a result of the project, just call this section Conclusions.

The Conclusions section sums up the key points of your discussion, the essential features of your design, or the significant outcomes of your investigation. As its function is to round off the story of your project, it should:

- be written to relate directly to the aims of the project as stated in the Introduction
- indicate the extent to which the aims have been achieved
- summarise the key findings, outcomes or information in your report
- acknowledge limitations and make recommendations for future work (where applicable)
- highlight the significance or usefulness of your work.

The conclusions should relate to the aims of the work[.]” (Monash University, 2020)

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APPENDIX A
PROJECT PLAN

Table 2: Task Lists and Duration

Task	Task Description	Preceding Tasks	Duration (in days)
A	Implementation of Algorithms	—	30
B	Testing, Refinement and Optimization	A	31
C	Data Collection	B	60
D	Data Analysis	C	60

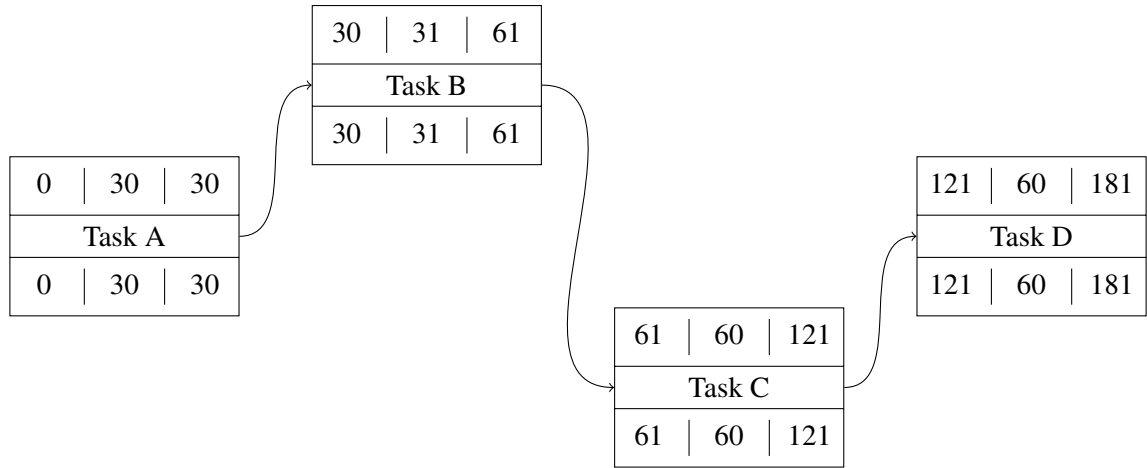


Figure 2: Network chart.

Table 3: Task Schedule Management and Personnel Assignment Plan

Task	Task Description	Personnel	Duration (in days)	EST	LST	ECT	LCT
A	Implementation of Algorithms	All Personnel	30	NOV 01 2019	NOV 30 2019	NOV 01 2019	NOV 30 2019
B	Testing, Refinement and Optimization	All Personnel	31	DEC 01 2019	DEC 31 2019	DEC 01 2019	DEC 31 2019
C	Data Collection	All Personnel	60	JAN 01 2019	FEB 29 2019	JAN 01 2019	FEB 29 2019
D	Data Analysis	All Personnel	61	MAR 01 2019	APR 31 2019	MAR 01 2019	APR 31 2019

Table 4: Material and Equipment Sourcing Plan

Protocol	Date/s Needed	Unit	Materials Needed	Potential Source	Remarks
Implementation of Algorithm	NOV-01 to 30	1	Laptop with Python	From Home	On Hand
Testing, Refinement and Optimization	DEC-01 to 31	1	Laptop with Python	From Home	On Hand
Data Collection and Analysis	JAN-01 to APR-31	1	Laptop with Python and R	From Home	On Hand

Table 5: Risk Management Plan

Risk	Safety Measure/Protocol
Development of Carpal Tunnel Syndrome	Frequent 5-minute breaks to relieve muscles
Electrocution	Proper usage of electronic devices
Loss of data	Upload of data into the cloud
Proprietary software trial expiry	Use of free and open-source software

APPENDIX B RAW DATA

Table 6: Random Table

Random	Bits
of	data

Listing 1: game.py

```

1 #!/usr/bin/env python3
2
3 from engine import Controller
4 from rmg import RandomMoveGenerator
5 from human import HumanPlayer
6
7 con = Controller(RandomMoveGenerator(), RandomMoveGenerator
    ())
8 conWinner = con.start()
9 if conWinner < 3:
10     print(f"Player_{conWinner}_won!")
11 else:
12     print("Draw!")

```

APPENDIX C STATISTICAL TABLES

Table 7: Example of Organisms Sorted Through a Classifier System

Aspect	Human	Fish	Bacterium
opposable thumbs	1	0	0
wings	0	0	0
gills	0	1	0
eyes	1	1	0
requires oxygen	1	1	1

APPENDIX D DOCUMENTATION

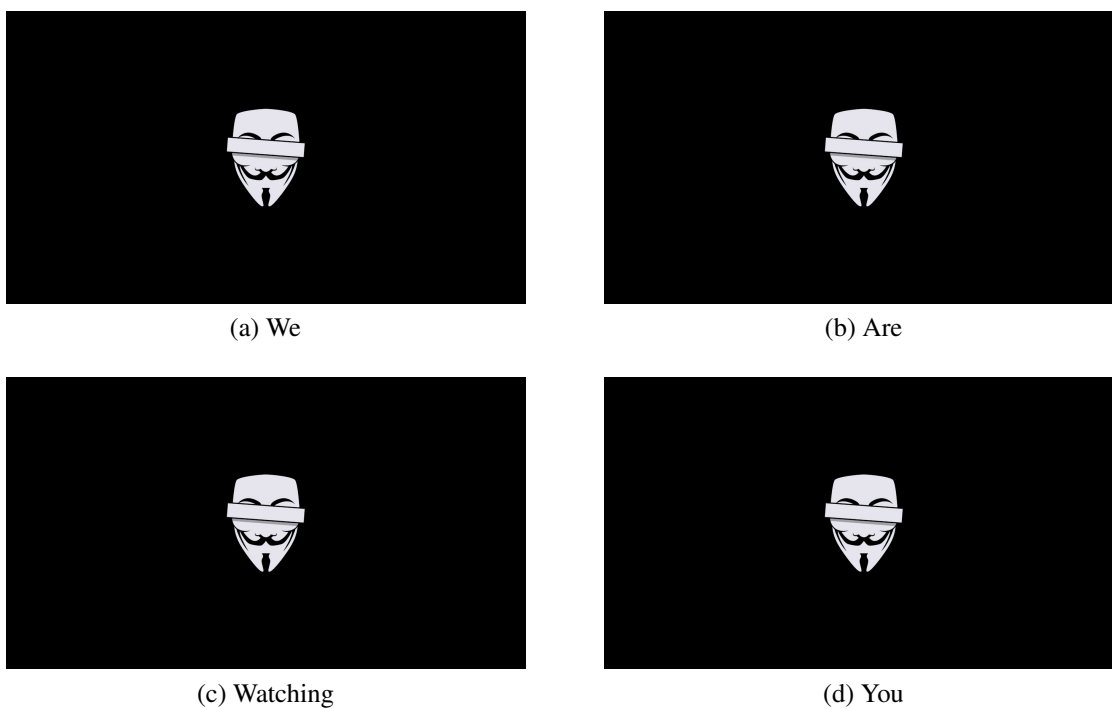


Figure 3: We are watching.