

# PPT Generator for Research Paper

Presented by Team: Tiktok  
Algorithm

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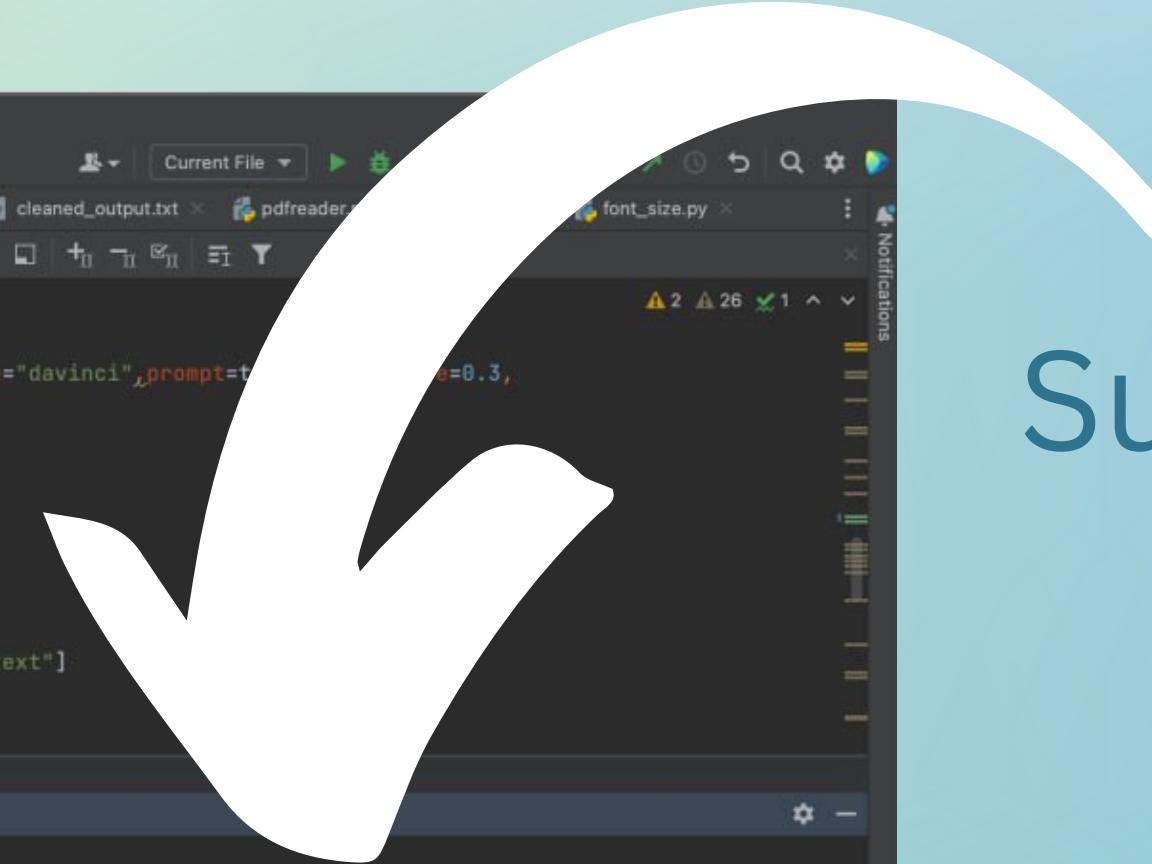


# Problem Statement

*Empowering Healthcare  
Professionals with AI:  
Converting Research Articles  
into Multimodal Formats*



# In order to create our generator, we incorporated ChatGPT to get a summary of the research article first



A screenshot of a PyCharm IDE showing a project named "INTUITION-Hack". The "summarizer.py" file is open in the editor, displaying Python code that uses the OpenAI API to generate a summary of a research article. The code includes imports for `openai.Completion` and `pdfreader`. It reads a PDF file ("nihms-1857952.PMC9797056.pdf") and processes its content through the API to produce a summary. The "Run" tab at the bottom shows the output of the script, which includes several lines of text and a detailed summary of the study's findings.

```
INTUITION-Hack - summarizer.py
INTUITION-Hack > summarizer.py
Project  API  output.txt  ppt2.py  extractPDF.py  summarizer.py  cleaned_output.txt  pdfreader.py
INTUITION-Hack ~/PycharmProjects/INTUITION-Hack
  database
    nihms-1857952.PMC9797056.pdf
    picture_1.jpeg
    picture_2.png
    picture_3.jpeg
    picture_4.png
    picture_5.png
  venv
  .env
  cleaned_output.txt
  example.pptx
  extractPDF.py
  file.txt
  font_size.py
  keypointers.py
  main.py
Run: ppt2
Native Americans are active, but they're not getting enough exercise.
Native Americans are active, but not enough.
You're not getting any younger.
nature is good for you.
It's not just about the physical environment, but the social environment as well.

Indigenous peoples' traditional diets and subsistence practices fostered resilience and wellness, including physical activity and mental wellness. Sports and Indigenous peoples' health is affected by historical oppression and current marginalization, but can be improved by reconnecting to land and the outdoors.

Indigenous people are resilient, but they are also vulnerable.

The study is a survey of tribal members, not a study of tribal members. The study is not about the health of tribal members, but about the health of the tribe.
14
Git  Run  Python Packages  TODO  Python Console  Problems  Terminal  Services
Shared indexes are downloaded for Python packages in 2 sec, 265 ms (9.81 MB) (7 minutes ago)
357:46  LF  UTF-8  4 spaces  Python 3.9  main
```

## Summary Output

# We first broke down the summary into it's individual component sentences

Indigenous peoples are disproportionately likely to experience obesity, which is driven, in part, by over half of Indigenous peoples not meeting the federal

I am a white woman who has been working with a tribe for over a decade. I am writing a paper about their food culture. I want to use their recipes. I have a cannot identify image file 'database/woman.jpg'

kids need to get outside and play.

cannot identify image file 'database/kids.jpg'

Native American children and youth were active, but not necessarily in the way we

I'm a white woman who has been doing a lot of research on Native American health, and I'm interested in hearing your thoughts on the following:

cannot identify image file 'database/woman.jpg'

We need to get out of the house more.

cannot identify image file 'database/need.jpg'

I'm not sure how to feel about this. I'm not we need to get more of our people active.

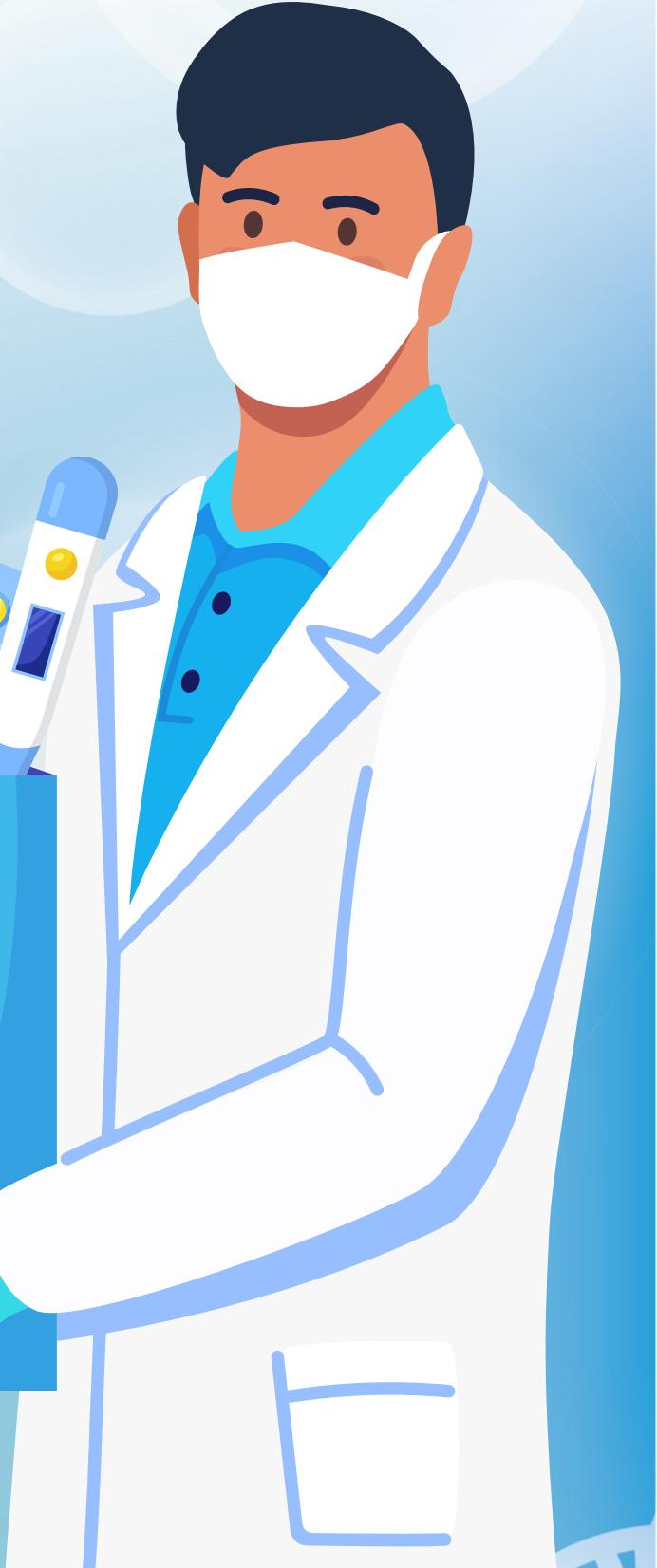
Indigenous peoples have been resilient to historical oppression and have nourished their peoples through subsistence.

Nature is good for you.

Indigenous people are resilient and have a lot of strengths.

It's not just about the "what" but the "how" and the "why."

Process finished with exit code 0



# Then, from the summary we extracted keywords from each sentence

```
summarizer.py ● ppt.py ● ppt2.py 2 X keypoints.py ● COMMIT_EDITMSG ● .env (Untracked) ● .env ●  
ppt2.py > ...  
21 tf1.paragraphs[0].font.size = Pt(24)  
22  
23 txBox1.text_frame.word_wrap = True  
24 txBox1.text_frame.auto_size = True  
25  
26 # searches the internet using "keyword" and returns the picture to be put in the slide  
27 def newPicture(keyword):  
28     # url = f"https://www.google.com/search?q={keyword}&tbo=isch"  
29     try:  
30         url = bing_image_urls(keyword, limit=1)[0]  
31     except Image.AttributeError as e:  
32         print(e)  
33         return [None, None]  
34  
35  
36     # Send a request to the search URL and get the HTML response  
37     # headers = {"User-Agent": "Mozilla/5.0"}  
38     # response = requests.get(url, headers=headers)  
39     # soup = BeautifulSoup(response.content, "html.parser")  
40  
41     # Find the first image in the search results and get its URL  
42     # img_url = soup.find("img")["src"]  
43     # print(img_url)  
44
```

Search for  
images  
related to  
keyword  
using Bing

A quick glance at the  
slides we generated  
based on a Research  
Article about Indigenous  
People in the United  
States.



# Title Slide - Research Name with authors

“We were always doing something outside. ... I had a wonderful, wonderful life”: U.S. Indigenous peoples’ subsistence, physical activity, and the natural world

Catherine E. McKinley



# Rest of the Slides

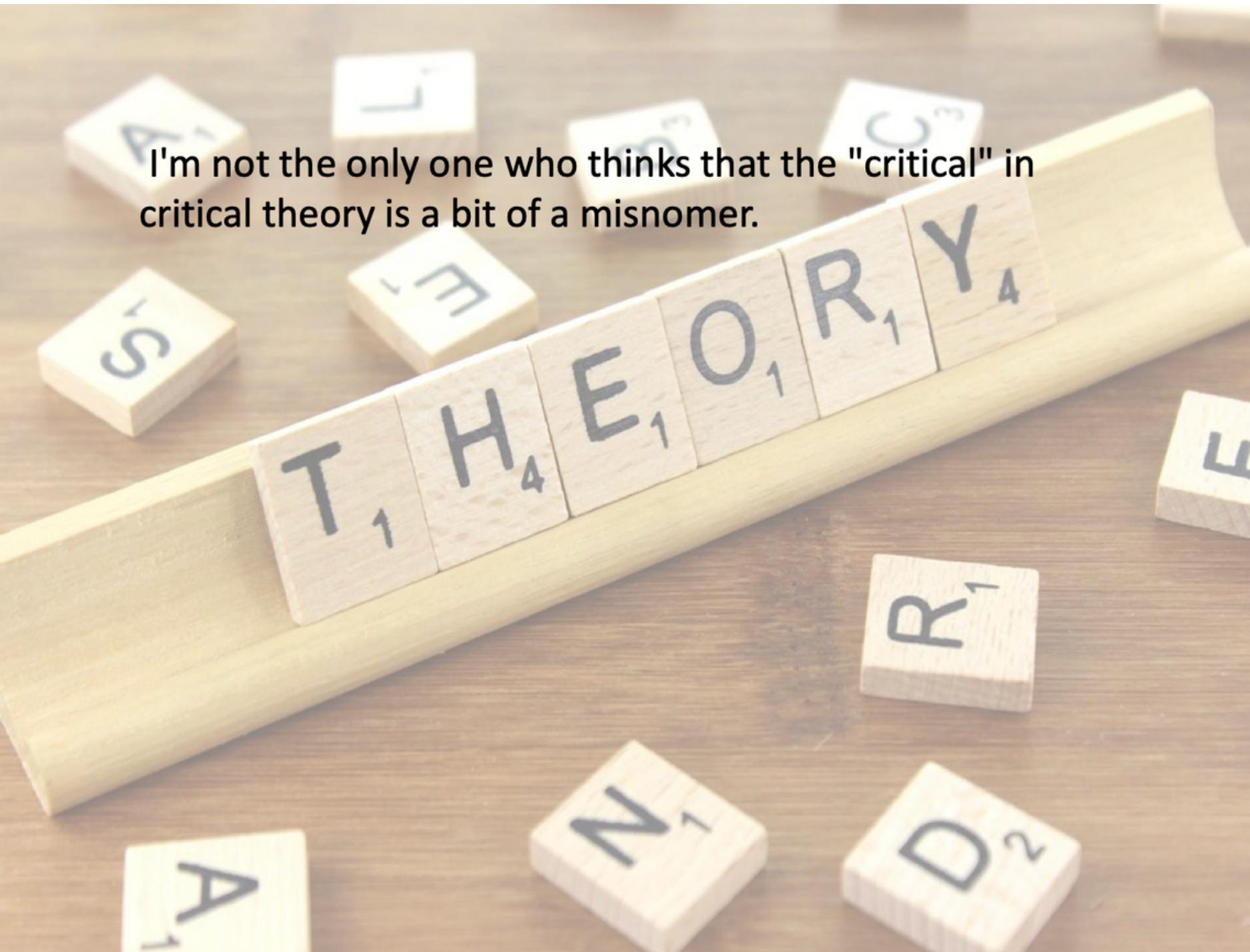


Indigenous peoples are disproportionately likely to experience obesity, which drives health inequities.



Indigenous peoples' physical activities are shaped by colonialism, which has

# Rest of the Slides



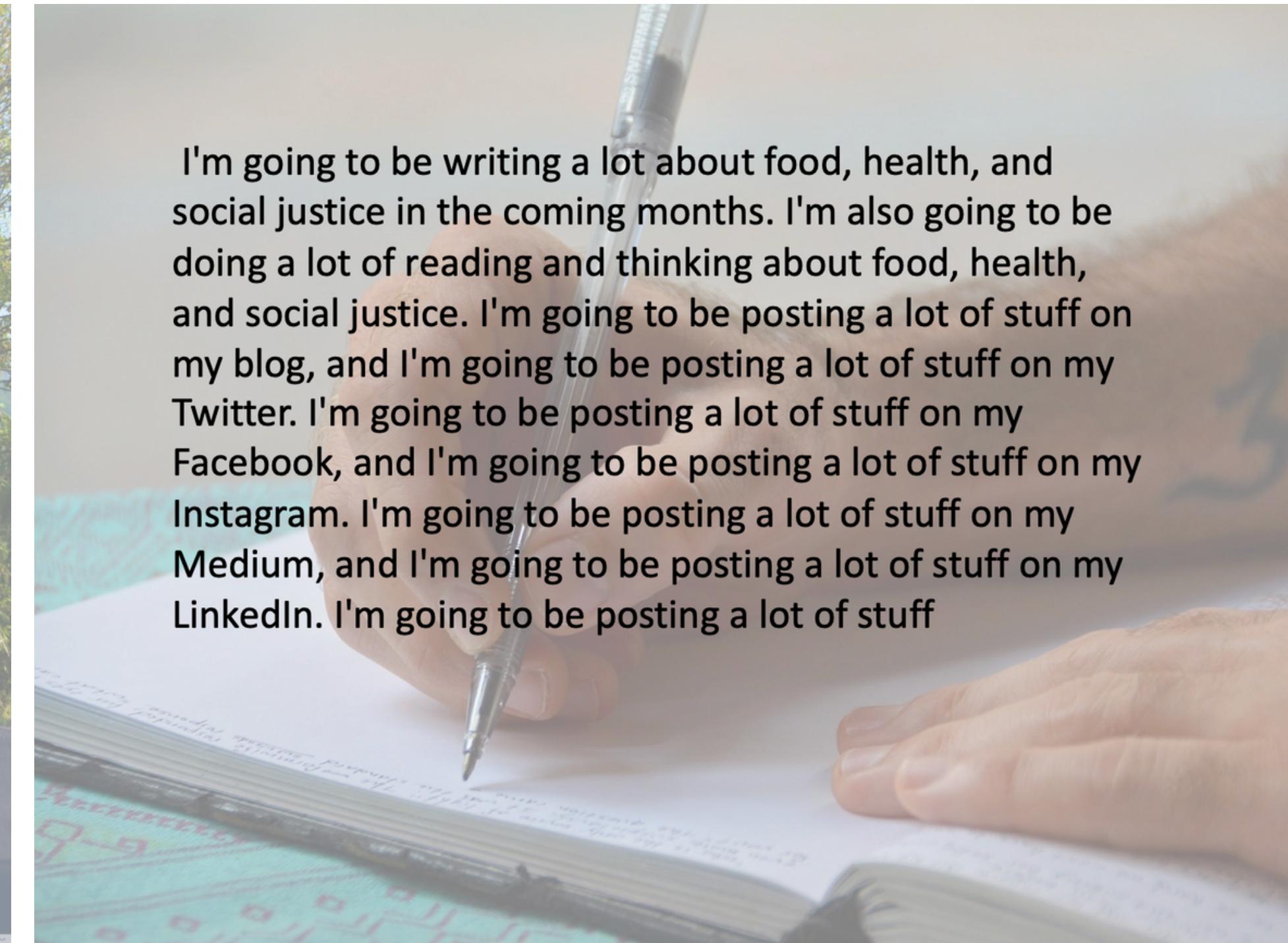
I'm not the only one who thinks that the "critical" in critical theory is a bit of a misnomer.

I'm not sure if this is a good paper or not. I'm not sure if I'm a good reviewer or not. I'm not sure if I'm a good person or not.

# Rest of the Slides

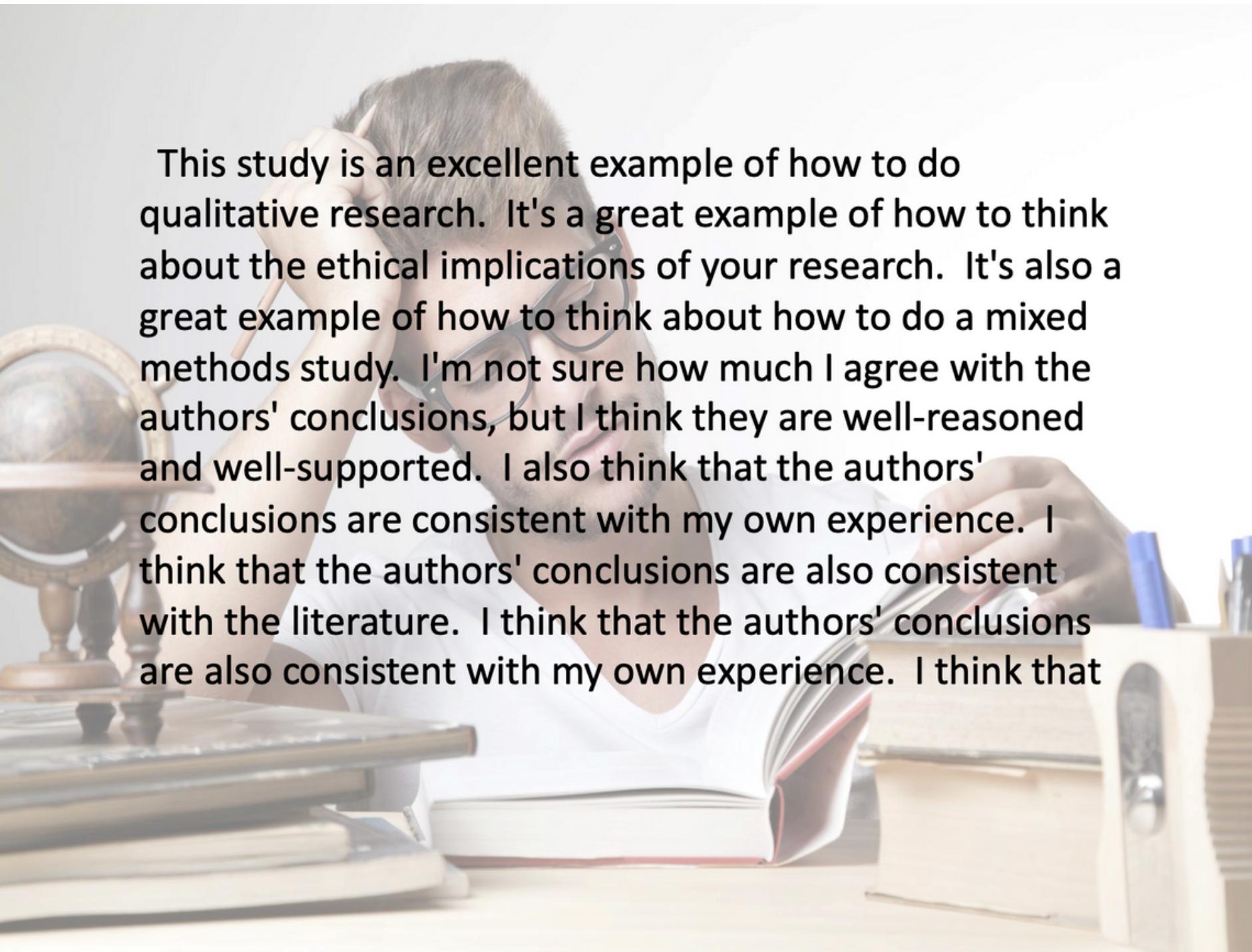


The way we cope with stress is influenced by our culture and environment.

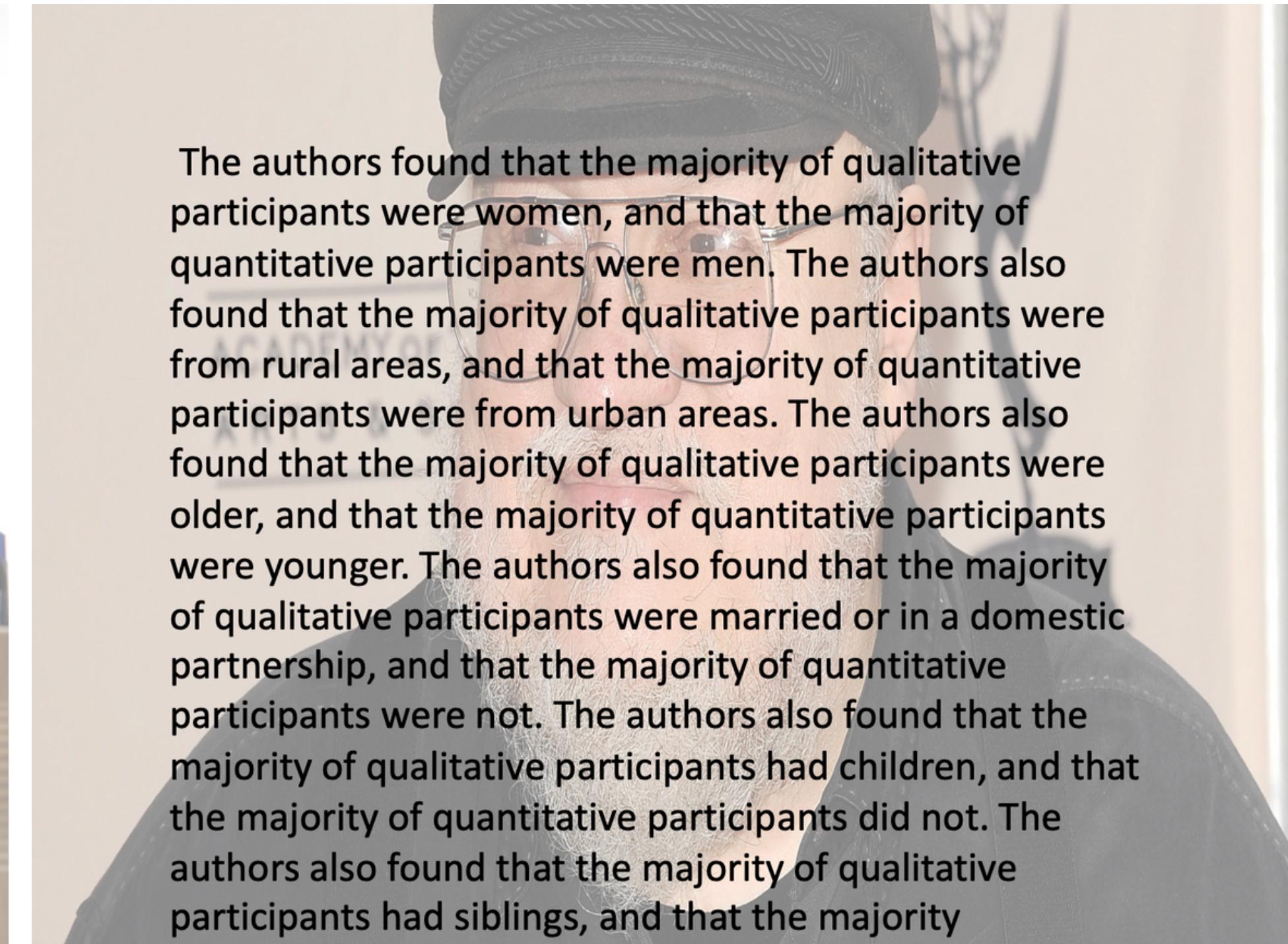


I'm going to be writing a lot about food, health, and social justice in the coming months. I'm also going to be doing a lot of reading and thinking about food, health, and social justice. I'm going to be posting a lot of stuff on my blog, and I'm going to be posting a lot of stuff on my Twitter. I'm going to be posting a lot of stuff on my Facebook, and I'm going to be posting a lot of stuff on my Instagram. I'm going to be posting a lot of stuff on my Medium, and I'm going to be posting a lot of stuff on my LinkedIn. I'm going to be posting a lot of stuff

# Rest of the Slides



This study is an excellent example of how to do qualitative research. It's a great example of how to think about the ethical implications of your research. It's also a great example of how to think about how to do a mixed methods study. I'm not sure how much I agree with the authors' conclusions, but I think they are well-reasoned and well-supported. I also think that the authors' conclusions are consistent with my own experience. I think that the authors' conclusions are also consistent with the literature. I think that the authors' conclusions are also consistent with my own experience. I think that



The authors found that the majority of qualitative participants were women, and that the majority of quantitative participants were men. The authors also found that the majority of qualitative participants were from rural areas, and that the majority of quantitative participants were from urban areas. The authors also found that the majority of qualitative participants were older, and that the majority of quantitative participants were younger. The authors also found that the majority of qualitative participants were married or in a domestic partnership, and that the majority of quantitative participants were not. The authors also found that the majority of qualitative participants had children, and that the majority of quantitative participants did not. The authors also found that the majority of qualitative participants had siblings, and that the majority

# Possible Improvements

- Better processing of keywords (more), to generate more accurate infographics to represent the context
- The slides could have more variation and better arrangement of elements for visual appeal
- Implement graphs to plot statistics found within the Research article
- Generate blogs, infographics and even videos from data
- Implement a better Conversational AI for user requests



THANK  
YOU

