



From Page to Person: Investigating the effects of reading physically violent interactions in literature on high school students' aggressive thoughts

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#### **Abstract**

This study investigated the short-term effects of reading literature depicting physical violence, on high school students' aggressive thoughts. While extensive research has explored the impact of media violence on adolescents' behavior and attitudes, literature has received limited attention in this regard. Previous research on media violence has predominantly focused on video games and television, with limited studies specifically addressing the influence of violent literature on aggression. Quantitative data was collected through use of a word completion task to examine the short-term consequences of exposure to physically violent interactions portrayed in literature. Preliminary findings indicated a significant increase in participants' aggressive thoughts after reading literature containing physical violence. The results suggested that exposure to violent content in literature could influence adolescents' cognitive processes, leading to an elevation in aggressive thoughts.

## **Keywords**

Aggressive thoughts, High schoolers, Teenagers, Literature, Books, Violence in literature, Aggressive behavior, Accessibility of aggressive thoughts scores, General Aggression Model, word completion

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#### Introduction

short-term effects depicting physically violent interactions on elevated risk for a wide range of mental health high school students' aggressive thoughts. In problems in children and adolescents, including today's world, media violence's role in shaping depression, anxiety, and post-traumatic stress adolescents' behavior and attitudes is a topic of disorder (5). More quantitative data is needed extensive research and debate. Researchers to determine whether high schoolers reading have examined several mediums for their role literature depicting physical violence causes in media violence, such as video games, music, increased thoughts of aggression. and television (1). Literature, however, which more mentally active form entertainment, has not received the same Craig Anderson and Brad Bushman, developed amount of attention. As teenagers continue to a General Aggression Model (GAM) in order develop personally and socially through to explain the effects of exposure to violence reading (2), the effects of exposure to violence on a person's short-term violent thoughts. Like in literature on teenagers' aggressive thoughts many others focusing on violence in the media, need investigation.

violent interaction will be defined according to environment can interact with individual the The World Health Organization (WHO). differences to produce aggressive behavior. Accordingly, a physically violent interaction is The model suggests that aggressive behavior where a person has "the intentional use of results from a combination of inputs, including physical force or power, threatened or actual, situational factors, personal characteristics, and against oneself, another person, or against a cognitive processes (see Figure 1). group or community, that either results in, or deprivation" (3).

when depicting physical violence. A study by The purpose of this study was to examine the Felson et. al., concluded that exposure to all reading literature forms of violence was associated with an

### of *Understanding aggression*

this paper was largely shaped by the General Aggression Model, a theoretical framework For the purpose of this study, a physically developed to explain how various factors in the

has a high likelihood of resulting in injury, In simple terms, these factors fall under a broad death, psychological harm, maldevelopment, or category of circumstances that may increase the probability that a person experiences aggressive thoughts. Such influences may Recognizing the importance of reading, to a include provocation, frustration, and other teenager's development, the Department for environmental stressors. The degree of Culture and Media states, "People cannot be influence of these factors greatly depends on a active or informed citizens unless they can given person's personality, culture, and read. Reading is a prerequisite for almost all biological makeup. Personal qualities are one cultural and social activities" (4, 5). Reading is example of these influences, since individual an important form of entertainment for variances in traits like impulsivity, difficulty teenagers. Despite this importance, it lacks controlling anger, and hostility can also scientific study, where other forms of media increase the probability of aggressive behavior. have been scrutinized: in examining its impact Cognitive processes, where an individual

processes knowledge factors and personal characteristics and possibly affect their behavior (6).

and understanding aggressive behavior. Overall, these factors through thought and experience, play a key indicate that the manner in which people role in the GAM, as they are thought to evaluate a particular scenario can affect their mediate the relationship between the situational emotional response, which can in turn, can

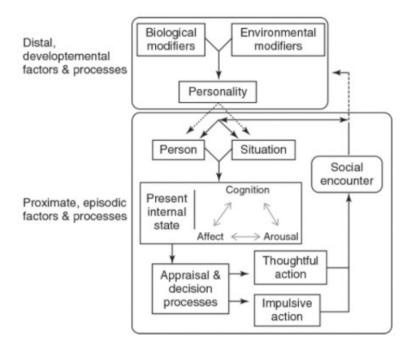


Figure 1: Two main categorical factors influence aggression: distal developmental factors and processes and proximate episodic factors and processes.

content affects aggression.

# Violence in the general media

It is important to evaluate the prior research on media. One study in particular, conducted by how reading violent literature affects children's Gentile et. al., examined the effects of exposure behaviors and attitudes, to fully grasp this to violent and cartoonish children's games on research question's significance. Although short-term aggressive behavior on elementary many studies have been conducted on how school children and college students who were media violence affects teenagers' attitudes and either assigned to play a children's game with behaviors, very few studies have specifically violence or one without violent content. In this examined how the act of reading violent task, participants were next asked to set punishment levels that they thought would be delivered to another participant if they lost, based on the Taylor Competitive Reaction It is first important to understand the Time task where a participant's goal is to click preliminary data stemming from violence in the trackpad button sooner than his or her opponent after receiving auditory or visual or racial prejudice, on children aged twelve to increased the severity of punishments that concluded content.

the effects of playing video games on reading violent and controversial novels. That undergraduate students' levels of violence. Ten reading such novels could be a consequence of video games were selected by reviewing video mental health problems was apparently not game sites on the World Wide Web, popular considered. magazines, and retail outlets and students were allowed to play these games. To subsequently In a similar study, Stockdale et. al. studied the measure violence, the word completion task effects of aggressive novels on middle method was used, which has participants fill in schoolers. Through a questionnaire, the the blanks of missing letters to make complete aggression levels of each of the middle words. The study concluded that Participants schoolers was measured through their favorite produced a significantly higher percentage of books, video games, and television shows, aggressive words after playing violent games concluding that there was a correlation between (9). The study demonstrated the effects of reading books with violent content and an exposure to violence on young adults after increase in aggression levels (11). Similarly, exposure to violence in the media.

### Violence in literature

cues. When participants lose, they hear a eighteen. The participants were asked to punishing noise blast at an intensity supposedly identify which books they had read from a list set by their opponent. The study's main finding and compare the data to their school and was that playing a violent video game community behavior performance. The study that reading violent participants tried to deliver to another person controversial novels was positively associated by > 40% (7). A separate study conducted by with civic and volunteering behaviors, possibly Anderson et.al. (8) yielded similar results because they could foster an open mind, while through a meta-analysis, coming to the also being associated with greater degrees of conclusion that high school students exposed to mental health symptoms (10). While this study violent media were more likely to be involved provided some insights into the effects of in physical fights and to report feeling angry reading novels depicting physical violence on and aggressive after reading the violent children's behaviors and attitudes, it had several limitations. One such limitation was that the study assumed that an increase in Another study by Anderson et. al., examined adverse mental health symptoms was due to

Coyne et. al. used an interview method to examine the effects of manga, a type of graphic novel, on aggressive behavior in adolescents at Many researchers chose to use a survey-type a large midwestern middle school. She method to determine the effects of violence collected data by analyzing manga novels depicted in books. Ferguson et. al., chose a participants had read and their favorite books snowball sampling method to determine the and video games, and subsequently examining effects of reading novels censored for either their aggression levels. The study concluded their violent content or their controversial that manga readers were more physically issues, such as the depiction of sexual content aggressive than non-manga readers and also

media violence exposure in other media (12).

attracted to novels containing violence rather that their research findings were than the novels causing the aggression. statistically significant (14). Although each study addresses these issues as limitations, they fail to determine whether Other studies have similarly used interviewparticipants were attracted to violent novels, or type methods to determine the effects of if the violent content in those novels caused violence in literature. One study conducted by aggressive behavior in the participants. As Turkey's ministry of education examined 7th Ferguson himself contends in a later research graders before and after reading violent novels study challenging the current theory that such as the novel Kuklaci, translated as "The violent media makes children more aggressive; Puppeteer", laboratory results do not translate into real- students read the books, the students in the world, meaningful effects and much of the experimental group were given an interview present research fails to control other variables, form, and they were asked to express their such as mental health and family life, which opinions in writing to determine their thoughts may have affected the results. He discovered about the books they read and the violent that these other risk factors, rather than video content in these books (15). Similarly, Kirsh et. games, are what lead to aggressive and violent al. investigated the effects of reading extremely behavior in children, making them more likely, violent versus mildly violent comic books on in turn, to choose to play violent video games the interpretation of relational provocation (13).

method that attempted to address the above book. After reading the comic books, limitations. Undergraduate students at Wichita participants read five hypothetical stories in State University examined the effects of which a child provoked a relationally reading violent texts on psychology majors by aggressive incident to happen to another child, examining participants' before reading the texts and giving participants The participants then answered a series of a 93-item survey that recorded demographic questions about the provocateur's intent,

reported more lonely peer relationships and information, self-reported emotions, and selfhaving smaller friend groups. In addition, reported responses to different situations. After reading manga that depicted particularly high the participants read the texts, they filled out levels of aggression was associated with the Anderson State Hostility Scale. The scores physical aggression even after controlling for on both questionnaires produced an overall hostility score that determined whether the participant felt more or less hostile after The flaw in Ferguson, Stockdale, and Coyne's reading the chapter. The scores were compared research is whether the research is whether between those that read the violent chapter, and aggression is a cause or consequence of reading those that read the neutral one. Results violent content. Some participants already indicated that violent literature might have demonstrating violence may have been some effect on aggression levels but concluded

and Tom Sawyer. After the situations. this study, introductory psychology students read either an extremely One research study used the survey-type violent comic book or a mildly violent comic aggression levels but the provocateur's motivations were unclear.

processing of relationally aggressive situations was influenced by reading violent comic books, even if the comic books did not contain themes of relational aggression (17, 19). Such studies further primes the need for a quantitative study of literature in high school students, because qualitative studies indicate that university students experience increased aggression when reading aggressive materials. Another research study conducted by Muniz et. al., surveyed parents on their opinions of how violent novels may affect children and found that children are perceived to be impressionable with regard to reading violent content (18).

Other studies have attempted to address this causation versus correlation issue through experiment-type methods. Coyne researched the effects of reading violence by having undergraduate students read a story centered on a physically and relationally violent fight between two roommates. Violence was recorded by observing how participants responded directly after reading the text when faced with an irritating gaming partner in a video game. The study concluded that that participants who read a story depicting physical aggression were much more aggressive than those who read a text containing relative violence (20). In a similar study, Bushman et. al. examined the effects of violent religious scripture on aggression. Participants read the text and subsequently participated in a video game with another participant; with the ability to choose the punishment level through the noise effects of the loser. The study concluded that exposure to scripture violence could cause readers to behave more aggressively (21).

potential retaliation toward the provocateur, Stevens et. al., conducted a similar study with and the provocateur's emotional state. The students at BYU. Participants filled out their researchers concluded that social information demographic information and read the stimulus story, with half of the participants reading a story depicting physical aggression and the other half reading the nonaggressive version of the story. After reading the content, half the participants complete a word completion task and half completed the word-pair association task. All participants then filled out an aggression questionnaire. The researchers concluded that reading violent novels increased aggressive thought in university students (22).

> Although some studies, including those by Stockdale et. al. and Coyne et. al., have examined the impact of reading violent books on children's behaviors and attitudes, they have mainly focused on university- or middleschool-level students. They have specifically examined the short-term effects of physically violent interactive content on high school students. Although Ferguson et. al. did conduct research on students of all ages, his research failed to distinguish between violent literature causing the aggression, or violent children being attracted to violent content novels. Thus the results did not follow from the observations. Hence, studies on high schoolers have not yet been able to distinguish between cause and consequence through an experiment type method. Therefore, a gap in the current body of literature exists regarding research on the short-term effects of reading literature depicting physically violent interactions on high school students' aggressive thoughts. This paper plans to address such a gap by measuring high school students' aggressive thoughts.

#### Methods

increased aggressive thought.

Additionally, based on prior research outcomes on studies examining violent media's impact on young individuals' behaviors and attitudes primarily focused on middle school and university students, this study hypothesized that high school students exposed to literary content depicting physically interactions will demonstrate elevated aggression thought levels similar to that of research materials (25). previously studied middle school and college students.

# Overview and design

This study implemented a word completion task in order to measure aggressive thought. Researchers have used this method for its validity in assessing constructs such as trait attribution (23, 24). The word completion task has been used as a state-level measure to observe the short-term changes in a given person's aggression levels or personality, and has recently been used to measure state aggression and aggressive thought.

One study by Anderson et. al. (25) used such a task to measure aggressive thought in college students before and after exposure to different degrees of violent lyrics. Due to the similarities between reading and listening to music, this study replicated such a task using the same resources and word completion charts. This method of study was likewise chosen because of its simplicity of application.

In accordance with the General Aggression Results were coded using quantitative data Model, developed by Andersen and Bushman, where accessibility of aggressive thoughts this research study hypothesizes that high scores, such as that used by Anderson et. al. in school students exposed to literature depicting his study to compare each data piece, was physically violent interactions will experience calculated for each participant by dividing the number of aggressive word completions by the total number of completions. A total of 98 words were provided out of which 49 could yield/make (appropriate letters filled in) a violent word. Participant word completions were categorized in four types of words: aggressive words, neutral words, ambiguous words, and non-words. See Appendix D for the violent possible word completions and how they were coded in accordance with Anderson et. al. Participants were given seven minutes to complete as much of the word completion task as they could, in whatever order they chose. Rather than measuring aggression by comparing the different number of words yielded, the number of violent words stemming from the nonviolent and violent novels were calculated and compared to yield accessibility of aggressive thoughts scores, as calculated by Andersen et. al. in his research (25).

> Analyses also thoroughly addressed the completion behavior and its relationship to the presence of aggressive counterparts in the word completion task. This was done in order to gain further insight into participants' response patterns and to ensure that the completion of aggressive words on the word task truly matched with participant aggression, and not on the recall of the words in the text.

> To analyze the completion behavior, percentage of words completed by participants in both the group exposed to the

violent passage and the group exposed to the Selected texts on recall

### **Participants**

condition: regular text and physical violence.

#### Dependent variables

non-violent word. For instance, as explained brackets. by Anderson, "one item is 'explo e,' which may be completed as 'explore' or 'explode'" (25).

nonviolent passage were examined. The The texts chosen for this study were chosen for objective was to specifically focus on words a variety of reasons. One text had to have that had aggressive counterparts in the word demonstrable violent content, whereas the bank in order to determine if the presence of other had to have very little. They both had to aggressive counterparts influenced completion be easy enough for a high school student to rates or patterns differently between the two comprehend, and both texts had to be groups and hinted towards participants relying approximately the same length. Each text had to have close proximity to the opening chapters of the given novel to avoid participants being confused by a lack of background information Participants consisted of twenty-eight high in the novel. Therefore, after examining a school students at a small international French variety of possibilities, two texts were chosen: private high school in Los Angeles between the a passage from A Clockwork Orange, in which ages of thirteen and seventeen. The mean age a character is beaten for his drunkenness (See of participants was 15.136 years old and the Appendix B), and a passage from the novel The standard deviation was 1.077. Fifty percent of Luxe (See Appendix A) by Anna Godbersen, in participants were female and fifty percent were which the protagonist is introduced before male. Participants were either recruited in a entering a ballroom. The novel *The Luxe* was classroom or a library setting and were chosen based on Sarah Coyne's examination of randomly assigned to read either a text physical violence exhibited in each text within containing a physically violent interaction or a the novel, amounting to an average of 0.01 text that did not contain violent content. There instances of physical violence in the novel, a were fourteen participants assigned to each very minimal amount compared to other children's novels (26). The novel A Clockwork Orange was chosen because it has, according to Joseph Darlington at the Oxford University Accessibility of aggressive thoughts scores Press, gained a reputation for extreme violence, were based on a word completion task has appeared on lists of 'banned' works and consisting of a list of ninety-eight words where has even been implicated in copycat crimes one or more letters were missing. When (27). Because of the grade levels of the completing this task, participants filled in each participants, if a word was deemed difficult to of the missing letters to complete the words. understand in either text, the word was The missing letters are strategic and could replaced with a more modern and common either correlate with a violent word or with a synonym, and indicated through the use of

> To minimize the potential influence of memory associations, the texts, namely A Clockwork Orange and The Luxe, were carefully considered in relation to the word completion

task. The texts were specifically chosen to and completed an average of 40 words. In the to memory recall.

#### Procedure

After reading and signing a consent form, participants were told a cover story in order to disguise the true purpose of the study so as to avoid potential bias in the word completion task. Accordingly, participants were told that the purpose was to determine how reading different types of writing styles affects the way people write. Next, one of the two types of texts were handed out. Participants either read a violent text or a non-violent text.

After finishing the passage, each of the texts were collected and participants each received a word completion task. The participants were then given seven minutes to complete as many words as possible, in no particular order.

#### Results

The group of students who read the text depicting physical violence produced an average of 21.7 violent words and completed an average of approximately 42 words. In contrast, the group that read the non-violent text produced an average of 12 violent words

ensure that the words present in the texts did violent text condition, scores were coded not resemble or align closely with the words through a calculation of the accessibility of used in the completion task. Additionally, aggressive thoughts scores. These scores were participants were allowed only 7 minutes of calculated by dividing the total number of exposure to the words, after which they were violent words produced by the total number of promptly removed. This precautionary measure words completed. In the violent text group, aimed to prevent participants from relying on participants yielded a mean accessibility of the texts as a source of cues or clues for aggressive thoughts score of 0.32. The scores completing the word task, thus reducing the were split between males who received a mean likelihood of memory-based influence on the score of 0.34 and females with a mean score of results. These steps were implemented to 0.298. The scores were similarly calculated for enhance the robustness of the findings and to the nonviolent text condition where participants minimize potential confounding factors related yielded a mean accessibility of aggressive thoughts score of 0.17. Males received a mean score of 0.16 and females received a mean score of 0.18. Figure 2 depicts the accessibility of aggressive thoughts scores of both groups and their differences.

> Furthermore, results indicated that the group who read the physically violent text produced an average of 22 violent words with 42 words completed. Approximately 72% completed words had aggressive counterparts, and all had non-aggressive counterparts. While the non-violent text group produced an average of approximately 12 violent words with approximately 40 words completed. Approximately 63% of the completed words had aggressive counterparts, and all had nonaggressive counterparts.

# **Accessibility of Aggressive Thoughts Scores** 0.45 Accessibility of Agressive Thoughts 0.4 0.35 0.3 0.25 0.2 0.15 0.1 0.05 2 18 16 Data Received (In order graded) Violent Text Scores Nonviolent Text Scores

Figure 2: The accessibility of aggressive thoughts scores

#### **Discussion**

This study's main goal was to test the 0.058) and the non-violent text group ( $M_2$  = hypothesis that when high schoolers read texts 0.17, Standard Deviation = 0.053). depicting physical violence it aggressive thoughts. The mean score of value -used in statistics to analyze the participants who had read the violent text was difference between the means of two or more compared to the corresponding mean of those groups— was calculated and yielded results who had read the nonviolent text.

However, the participants who read the violent results book had indicated significantly higher significant at the level of p < 0.0001. accessibility of aggressive thoughts scores with a mean score of 0.32, than those who read the These results support the hypothesis that significant difference in the accessibility of and, by extension, increases

text group ( $M_1 = 0.32$ , Standard Deviation=

primes To confirm the significance of this data, the pwhere p < 0.0001, indicating that there was a 0.01% probability that those particular results According to preliminary analyses, participant could be obtained by chance alone; or in other sex had no influence on the measure of the words, there was a 0.01% probability of accessibility of aggressive thoughts scores, incorrectly rejecting the null hypothesis. The were hence considered highly

nonviolent book who received a mean score of exposure to violent content in books increases 0.17. The study's results indicated a statistically the accessibility of aggressive thought scores aggressive thought scores between the violent thought. This study's findings are therefore consistent with earlier studies in the area, addition to more traditional which have shown that exposure to violent television and video games. media content can raise aggressive thought levels. Reading texts depicting physical Limitations violence may trigger aggressive thoughts.

With regard to the analysis of participants' response patterns in order to ensure that the thought rather than long-term completed groups an statistically equal amount of words in the word between percentage of words for which their aggressive be interpreted from this study. counterparts existed (72%).**Participants** reading the neutral text completed a lesser Furthermore, although the word completion vocabulary.

#### *Implications*

educators, parents, and policymakers to acquiring additional data that could help further consider when choosing books or creating rules alleviate such limitations. for media consumption among high schoolers. The community can make decisions to promote Another key limitation originates from the a healthier and more positive reading observation that thoughts and actions are not environment for high schoolers understanding the potential impact of violent the GAM such an increase in emotional content in books on teenagers' aggressive response can influence behavior, this study thoughts. This study also underlines how only measured aggression in thought and not crucial it is to include books and other textual actual aggressive behavior, and thus cannot

media like

The purpose of this study was to examine the short-term effects of reading physically violent interactions depicted in texts on aggressive aggressive completion of aggressive words on the word thought, and the measure of aggressive task truly matched with participant aggression thoughts was taken immediately after reading. and not recall of the words in the text, both As such, the study did not explore potential approximately mediators or moderators of the relationship exposure to books depicting completion task. Furthermore, the group who physically violent interactions and aggressive read the violent passage completed a larger thoughts. Thus, no direct long-term effects can

percentage of words for which their aggressive task may reveal a person's mental patterns and counterparts existed (63%). This analysis associations, the outcomes of such a study may provides valuable insight into participants' also be affected by a variety of other factors, completion behavior and suggests that their including an individual's pre-existing views word choices were likely a true reflection of and beliefs, their emotional state, and the being influenced by aggressive thoughts and environment in which the activity is conducted. not solely driven by recall, memory or Although this study was able to realize and gather evidence pointing towards increased high school students' levels of aggressive thought after reading physical violence The implications of this study are valuable for depicted in texts, time limitations prevented

by always closely related. Although according to forms of content in media violence research in comment on the effects of such an experiment on behavior.

limitation to understanding how exposure to aggressive thoughts. violent literature affects high schoolers' increase in aggressive thoughts through reading Another limitation of the present study was its similarly or uniformly.

overestimation aggressive of although care was taken to dissociate the words aggressive thoughts.

This variability in word count highlights the extreme examples of violent content.

The variation in reading comprehension and possibility that memory associations could play engagement levels posed another significant a role in shaping the reported increase in

texts. Although the narratives were carefully relatively small sample size and the fact that it chosen in order to optimize participants' was conducted in only one school, which limits understanding and absorption in the content the ability to generalize these findings. Hence, and cater to a wide variety of reading skills and larger and more varied samples for future providing modern synonyms for complex studies would be beneficial. In a larger sample words in order to lessen this problem, it size, it may also be productive to compare remained an important limitation: not all potential disparities in how violence in participants may have understood the texts literature affects aggressive thought among other demographic groups and will strengthen the results' external validity. These tests and The reliance on the word completion task to experiments should ideally be conducted in a assess aggressive thoughts in this study also range of academic or recreational settings. resulted in an important limitation. In the Additionally, if such a study were conducted in context of this study, participants might recall a more diverse environment, it might also the words from the violent texts and fill them in highlight any cultural variations in how distinct during the word completion task, leading to an people interpret and respond to violent content thoughts; in books and texts.

in the completion task from being similar to A final limitation in this research is its choice any of the words encountered in any of the two of text materials. A Clockwork Orange was texts. Nevertheless, memory associations or chosen as the textual material to observe vocabulary knowledge could potentially play a aggressive thoughts following exposure to role in the observed increase in reported physically violent interactions. The novel's explicit and vivid depiction of violence made it practical for measuring the relationship Another important aspect to consider was the between exposure to narratives depicting variation in the number of words provided by physically violent interactions and subsequent different participants throughout the study. It aggressive thought. However, the degree of was observed that participants from both violence in A Clockwork Orange may limit the groups generally provided a similar number of applicability of the study's findings because word completions. However, it is worth noting there is a notable difference between the that some individuals seemed to provide a violence exhibited in A Clockwork Orange and greater number of words compared to others. the violence typically encountered in other This difference in word count could potentially books that teenagers read more commonly. indicate the presence of memory associations. Further research should thus explore less

#### Future direction

thoughts of behavior may find it beneficial to thoughts and behaviors over time. implement study designs where participants are Addressing these limitations in future research followed over a period of time to address this will both contribute to the existing body of limitation, thus making it possible to examine literature and will also inform the development whether the short-term effects that were seen in of evidence-based strategies to promote this study also have long-term repercussions.

Given the drawbacks associated with using A Conclusion Clockwork Orange in the study, it would also This paper investigated the impact of exposure of violent content it manifested.

Finally, future research should sufficient time to collect additional data in

order to measure aggression levels rather than Future studies could contribute to closing the aggressive thought. This data could include current gap by taking into account the emotional and physiological metrics to better constraints that have been recognized. One of understand the underlying mechanisms through this study's main limitations is its emphasis on which violent content in books influences the immediate consequences of reading aggression. Additionally, incorporating followphysically violent books. Therefore, future up assessments would enable researchers to studies addressing the long-term effects of examine the stability of the observed effects exposure to violent novels on aggressive and investigate potential changes in aggressive

responsible media consumption.

be an appropriate future direction to investigate to a physically violent interaction content in the connection between exposure to violent books on high schoolers' aggressive thoughts. content and aggressive thoughts using a variety Results indicated that reading a text detailing a of texts with varying levels of violence. The physically violent interaction increased high results might provide a greater understanding schoolers' aggressive thoughts, as measured by of the effects that varying levels of violent the number of violent words produced in a content may have on readers if they included a word completion task. These results support the more varied sample of narratives. Such a hypothesis and bring about new understanding measure would help address the limitations that that reading passages depicting physical are associated with the extremeness of the violence significantly increases the prevalence violence in A Clockwork Orange. Results from of short-term aggressive thoughts in high such a study would indicate if the correlation schoolers. These results add to the body of was discrete and categorical, and at what level knowledge on media violence and aggression and highlight the need to take into account how violent content in books may affect young allocate readers' aggressive thoughts.

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#### **APPENDICES**

#### **APPENDIX A:** The Luxe Text

"THE RICHMOND HAYES FAMILY REQUESTS THE PLEASURE OF YOUR COMPANY AT A BALL IN HONOR OF THE ARCHITECT WEBSTER YOUNGHAM ON THE EVENING OF SATURDAY THE SIXTEENTH OF SEPTEMBER AT NINE O'CLOCK AT THEIR NEW RESIDENCE NO. 670 FIFTH AVENUE IN THE CITY OF NEW YORK"

# COSTUMES ARE REQUIRED

"THEY HAVE ALL BEEN ASKING FOR YOU," LOUISA Holland told Elizabeth, quietly but firmly."

Elizabeth had spent eighteen years being groomed as her mother's prized asset and had become, among other things, an expert interpreter of her tones. This one meant Elizabeth was to return to the main ballroom and dance with a partner of her mother's choosing at once, most likely a young man of enviable, if slightly inbred, lineage. Elizabeth smiled apologetically at the girls she had been sitting with—Annemarie D'Alembert and Eva Barbey, whom she had met that spring in France and who were both dressed as courtesans from the Louis XIV era. Elizabeth had just been telling them how very far away Paris seemed to her now, though she had only stepped off the transatlantic steamer and back onto New York soil early that morning. "Her old friend Agnes Jones had been perched on the ivory-and-gold striped damask love seat as well, but Elizabeth's younger sister, Diana, was nowhere to be seen. Most likely because she suspected that her behavior was being monitored, which, of course, it was. Elizabeth's irritation at the persistent childishness of her younger sister flared up, but she quickly banished the feeling.

"After all, Diana hadn't enjoyed the formal cotillion debut that Elizabeth had two years ago, just after her sixteenth birthday. For the elder Holland sister there had been a year with a finishing governess—she and Penelope Hayes had shared her, along with various tutors—and lessons in comportment, dance, and the modern languages. Diana had turned sixteen last April with no fanfare during Elizabeth's time abroad. The family had still been in mourning for their father, and a big to-do had not seemed appropriate. She had simply started attending balls with Aunt Edith in Saratoga during their summer stay there, so she could hardly be held responsible for seeming a little rough."

"I'm sure you are sorry to leave your friends," Mrs. Holland said, steering her daughter from the feminine hush of the parlor and into the main ballroom. Elizabeth, in her shepherdess's costume of white brocade, looked especially bright and especially tall next to her mother, who was still wearing her widow's black. Edward Holland had passed away at the beginning of that year, and her mother would be in formal mourning for another year at least.

sourced from: Godbersen, A. (2018). *The Luxe*. Harper Teen, an imprint of HarperCollins Publishers.

## APPENDIX B: A Clockwork Orange Text

When we got outside of the Duke of New York we [watched] by the mainbar's long lighted window, a burbling old pyatnitsa or drunkie, howling away at the filthy songs of his fathers and going blerp blerp in between although it might be a filthy old orchestra in his stinking rotten guts. One [thing] I could never stand was that. I could never stand to see a [mess] all filthy and rolling and burping and drunk, whatever his age might be, but more especially when he was real starry like this one was. He was sort of flattened to the wall and his platties were a disgrace, all creased and untidy and covered in [feces] and mud and filth and stuff. So we got hold of him and cracked him with a few good horrorshow [punches], but he still went on singing.

The song went:

And I will go back to my darling, my darling, When you, my darling, are gone.

But when Dim fisted him a few times on his filthy drunkard's rot he shut up singing and started to creech: "Go on, do me in, you bastard cowards, I Don't want to live anyway, not in a stinking world like this one." I told him to lay off a bit then, because it used to interest me sometimes to slooshy what some of these starry decrees had to say about life and the world. I said: "Oh. And what's stinking about it?"

He cried out: "It's a stinking world because it lets the young get on to the old like you done, and there's no law nor order no more." He was screeching out loud and waving his rookers and making real horrorshow with the slovos, only the odd blurp blurp coming from his [guts], like something was orbiting within, or like some very rude interrupting sort of a moodgemaking a [noise], so that this old [man] kept sort of threatening it with hisfists, shouting: "It's no world for any old man any longer, and that means that I'm not one bit scared of you, my boys, because I'm too drunk to feel the pain if you hit me, and if you kill me I'll be glad to be dead." We smecked and then grinned but said nothing, and then he said: "What sort of a world is it at all? Men on the moon and men spinning round the earth like it might be midges round a lamp, and there's not more attention paid to earthly law nor order no more. So your worst you may do, you filthy cowardly hooligans."

Then he gave us some lip-music—"Prrrrzzzzrrrr"—like we'd done to those young millicents, and then he started singing again: Oh dear dear land, I fought for thee And brought thee peace and victory— So we cracked into him lovely, grinning all over our [faces], but he still went on

singing. Then we tripped him so he laid down flat and heavy and a bucket load of beer-vomit came whooshing out. That was disgusting so we gave him the boot, one go each, and then it was blood, not song nor vomit, that came out of his filthy old rot. Then we went on our way.

sourced from: Burgess, A. (2019). A Clockwork Orange. W. W. Norton & Company.

# **APPENDIX C: Word Completion Task**

Code # Grade	Age	Gender
1 b_h	22 stre	43 flt
2 inre	23 Ie	44 fit
3 ex_e	24 b_rn	45 p_ck
4 muer	25 st_r_o	46 ha_e
5 pre	26 pson	47 a_t
6 spea_	27 p_st_r	48 c_t
7 flier	28 mgle	49 w_n
8 exple	29 bl_nd	50 a_e
9 wm	30 sn_re	51 _ry
10 ki	31 b_e	52 w a _
11 t_p_	32 h_t	53 f_m_
12 h_r_	33 gpe	54 sl_p
13 a_t_r	34 s m _ c k	55 bk
14 cho_e	35 s m e	56 r_pe
15 s_mp	36 kn	57 fo_e_t
16 att_c_	37 t_ne	58 off
17 c_mpt	38 sb	59 Ion
18 des	39 sh_r_	60 crI
19 sh_I_	40 drn	61 c_e_te
20 sho_t	41 pne	62 st_r_y
21 r_pt	42 ang	63 m_tc_

- 64 f\_r\_\_
- 86 rev\_\_t
- 65 t\_\_te
- 87 coo\_
- 66 n\_\_t\_
- 88 s\_\_y
- 67 w\_\_d\_w
- 89 d\_\_r
- 68 w\_\_ked
- 90 s m \_ c k
- 69 vis\_\_n 91 fr\_\_t
- 70 en\_age 92\_unch
- 71 scr\_\_n 93 sh\_re
- 72 h\_tr\_d 94 a\_use
- 73 t\_l\_ph\_\_\_ 95 cl\_\_r
- 74 dis\_\_s\_ed
- 96 h\_nt
- 75 c\_nt\_\_I
- 97 w\_t\_r
- 76 prov\_\_e
- 98 s\_ash
- 77 p\_nb\_II
- 78 out\_\_\_e
- 79 c\_II
- 80 r\_de
- 81 m\_n\_ge
- 82 ins\_\_\_
- 83 s\_d\_
- 84 b\_\_t
- 85 br\_\_ze

# **APPENDIX D: Scoring Word Completion Task**

# Coding Key for the Word Completion Task

Item #	Neutral	Ambiguous	Aggressive	Non-Words
1)	behind	500 90000000000000000000000000000000000	behead	2.00
	behave			
	Bahama			
	behold			
	behalf			
	behest			
2)	insure		injure	infere
	ensure			indure
	endure			
3)	exceed			expell
	expect			
	extent			
	extend			
	except			
	excess			
	expert			excell
	expend			
	extern			
	excels			
4)	mutter		murder	muller
	muster		mugger	mudder
				multer
				murmer
5)	pride			prode
	prime			prise
	prize			
	prude			
	prove			
	price			
	prune			
	prose			
	probe			
6)	speak		spear	
7)	flipper			
	flitter			
	flicker			
	flirter			
	flivver			
8)	explore		explode	

Item #	Neutral	Ambiguous	Aggressive	Non-Words
9)	warm		wham	
	worm			
	whim			
	whom			
10)	kite		kick	
15	kiss		kill	
	kilt			
	king			
	kids			
	kind			
	kiwi			
	kink			
	kilo			
11)	tape			topo
	type			tups
	tips			
	tops			
	taps			
	tope			
	typo			
12)	hare	hurl	hurt	
	hire		harm	
	hard			
	here			
	hers			
	hero			
	have			
	horn			
	hark			
13)	after			
	alter			
	aster			
	actor			acter
	altar			
14)	chore		choke	
	chose			
15)	sample			
	simple			
	simply			
	simper			
16)	attach		attack	
	attics			

Item #	Neutral	<b>Ambiguous</b>	Aggressive	Non-Words
17)	compact compost	complot		compeat compart
	compost			compare
18)	dessert	deserts	destroy	despire
	desires		despise	deshell
	deserve			desiree
	destiny			
	desired			
	designs			
	despair			
	despite			
	descent			
	descend			
	desktop			
19)	shale			shole
55050	shall			
	shelf			
	shell			
	shalt			
	shill			
20)	short		shoot	
			shout	
21)	repeat		rapist	
	report			
	repent			raport
22)	strife		strike	
1050	stroke			
	stripe			
	strive			
	stride			

Item #	Neutral	Ambiguous	Aggressive	Non-Words
23)	line	lure	D-D	
	lyre			
	lore			
	love			
	live			
	lose			
	lone			
	like			
	life			
	lake			
	lane			
	lime			
	lope			
	laze			
	lace			
	lame			
	lice			
	late			
24)	born		burn	
97.0	barn			
25)	stereo			
	sterno			
26)	person		prison	
8	-		poison	
			•	
27)	poster	pester		
0.0000	pastor			
	-			
28)	mingle		mangle	
	muggle		1.5	
	Legar			
29)	blind			
	blond			
	blend			
	bland			
30)	snore		snare	
21)	h			
31)	bye			
	bee			
221	hat		hit	
32)	hat hut		uit	
	hot			
	noc			

Item #	Neutral	Ambiguous	Aggressive	Non-Words
33)	grape	gripe		
,	grope	9F-		
	gF-			
34)	smock		smack	smuck
35)	smile		smite	smere
	smoke			smore
36)	kneel	knave	knife	
	known	knock		
	knits			
	knees			
	knack			
	kneed			
37)	+	tine		
37)	tone tune	cine		
	cune			
38)	saab	snob	stab	
5	slab	slob	snub	
	scab			
	stub			
39)	short	shark		
	shore	sharp		
	share			
	shirt			
	shirk			
40)	A i		A	
40)	drain		drown	
	drawn			
41)	plane			
	prone			
	prune			
	phone			
	•			
42)	angel		anger	
	angle		angry	
	anglo			
43)	flirt			
13)	fleet			
	float			
	flint			
	TITLE			
44)	first		fight	
•	filet			

Item #	Neutral	Ambiguous	Aggressive	Non-Words
45)	pack			
	pick			
	puck peck			
	peck			
46)	hare	haze	hate	
	have			
	hale			
47)	ant			
	act			
	art			
	apt			
48)	cat		cut	
	cot			
49)	won			
/	win			
	wan			
50)	ate	ape		axe
	ale			ave
	are			
	age			
	ace aye			
	awe			
	awc			
51)	try	pry		
	cry			
	dry			
	fry			
	wry			
52)	was		war	wat
	way		wap	
	wax			
	wad			
	wag			
	wan			
53)	fame		fume	
54)	slip		slap	
	slop			

Item #	Neutral	Ambiguous	Aggressive	Non-Words
55)	book back beak	bark balk		
	buck bank bunk			
56)	ripe rope		rape	
57)	forest		foment	
58)	offset offers office		offend	
59)	lemon logon			licon
60)	crawl		cruel	
61)	create			
62)	starry sturdy	stormy		
63)	match mitch			
64)	furry forty farms first forks forge forms forth fares ferry farts forum forgo farse forte	fires	force fired	faves firey
65)	taste trite			teste

ninth nutty nests newts north  67) window  68) winked worked walked  69) vision  70) engage enrage  71) screen  72) hotrod hatred  73) telephone telophase  74) dismissed disgusted discussed  75) central control  76) provide provoke provise  77) pinball  78) outcome outside outline outdate  79) call cell  80) rode ride  71 rude	Item #	Neutral	Ambiguous	Aggressive	Non-Words
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outside outline outdate  79) call cell  80) rode rude ride					
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outdate  79) call cell  80) rode rude ride					
79) call cell 80) rode rude					
80) rode rude	122		22		
ride	79)	call	cell		
ride	80)	rode		rude	
81) manage		ride			
	81)	manage			

Item #	Neutral	Ambiguous	Aggressive	Non-Words
82)	insect	insist	insult	
	insure			
	inside			
	insert			
	insane			
	insole			
	instep			
83)	side			sade
	soda			
	suds			
84)	bolt	boot		
	bait	butt		
	boat		beat	
	bunt	belt		
	blot	bust		
	beet	brat		
	bout			
	best			
85)	bronze			
	breeze			brouse
86)	revert	revolt		revent
80)	revert	revort		revent
87)	cool			
	cook			
	coon			
	coop			
88)	sony		slay	
	stay			
	sway			savy
	sexy			
	spry			sasy
89)	deer			
	door			
	dear			
	dour			
90)	smock		smack	smuck
01)	£wui+			
91)	fruit front			
	frost			
	IIOSC			

Item #	Neutral	Ambiguous	Aggressive	Non-Words
92)	lunch munch bunch hunch	-	punch	
93)	shore share			
94)	amuse		abuse	acuse
95)	clear			
96)	hint	hunt		
97)	water			
98)	stash swash		slash smash	