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"Train a Scribe" card from *Lost & Found*, illustration by Annie Wong and Mimi Ace

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Global Conflicts, Episodic Framing and Attitude Change

Towards the Israeli-Palestinian Conflict

Ronit Kampf

Abstract

This study compares the effects of episodic framing of the Checkpoint scenario and the Military Raid scenario in *Global Conflicts* (2010), a computerized simulation of the Israeli-Palestinian conflict, on developing impartial attitudes towards this conflict. The former presents a more human, individual and personal framing of the conflict than does the latter. Two hundred and ten Israeli-Jewish and Palestinian undergraduate students participated in the experiment. They filled in questionnaires measuring attitudes towards the Israeli-Palestinian conflict before and after playing the scenarios. Results suggested that participants playing the Checkpoint scenario became more impartial toward the Israeli-Palestinian conflict, unlike those playing the Military Raid scenario. The results show that computerized simulations of the Israeli-Palestinian conflict can be used for attitude change intervention, but the framing of the story in the game may be crucial in determining whether the players become impartial regarding the situation or not.

Keywords: Episodic Framing, Games for Change, Persuasive Games, Computerized Simulations, Israeli-Palestinian Conflict, Impartial Attitudes

To cite this article: Kampf, R., 2017. *Global Conflicts, Episodic Framing and Attitude Change Towards the Israeli-Palestinian Conflict*. *gamevironments* 7, 5-41. Available at <http://www.gameenvironments.uni-bremen.de>.

Introduction

This article compares episodic framing outcomes of the only two scenarios of the Israeli-Palestinian conflict in *Global Conflicts* (GC) (2010) for generating impartial attitudes (i.e., being able to look at the situation through the lenses of both sides). GC is a role-playing computerized simulation of the Israeli-Palestinian conflict (Buch and Egenfeldt-Nielsen 2007). In GC a player assumes the role of a Western reporter arriving in Jerusalem to put together a news report about the situation after

interviewing Israeli and Palestinian characters in the conflict. The Checkpoint scenario takes place at an Israeli checkpoint in East Jerusalem where both Israeli soldiers and Palestinian people feel stressed regarding their security and suffer from their impossible situation in the conflict. The Military Raid scenario takes place in a small Palestinian village in the Western Bank where Israeli soldiers conduct a violent raid to arrest a group of Palestinians accused of committing violent actions against Israelis in West Jerusalem.

Episodic framing is used in the context of media reporting. This framing offers human interest and individual and personal elements of a specific case story (Iyengar 1991; further elaborated in the next sections). This framing strategy was selected because (a) it may indicate the differences between the only two scenarios in GC by examining the extent of the scenario presented in personal, individual and human interest terms, and (b) as mentioned earlier, this game focuses on news reporting by asking the player to produce a news report for different newspapers based on the interviews she conducts with various Israeli and Palestinian characters in the assignment.

Using the two scenarios in GC, an experiment was conducted among Israeli-Jewish and Palestinian undergraduate students, who are directly involved parties to the conflict with political positions that are rigid, entrenched, and characterized by strong ideological, cultural and religious considerations which are more resistant to change (e.g., Alon and Bar-Tal 2016, Eagly and Chaiken 1998, Reiter 2017). Therefore, it should be interesting to examine under what conditions (i.e., the extent of the scenario presented in episodic and human interest terms) the two scenarios in GC can serve as effective attitude change interventions for young people on this divide with strong and ethnocentric attitudes (i.e., being able to look at the situation only

games (Lenhart et al. 2008).

Whenever a medium becomes popular, researchers start investigating its effects. Roig and colleagues (2009) explain that the effects of computer games can be understood through the overall framework of media practices. Along with introducing new forms of pleasure due to their distinct structural features and playability functions, they argue that considering the cultural context in which computer games evolve is essential to understanding their effects. The trend in studying computer games' effects on individuals and society focuses on violent feelings and aggressive behavior (e.g., Barlett et al. 2008, Eyal et al. 2006, Peng, Klein and Lee 2006, Weber et al. 2009). Conversely, this study investigates positive rather than negative effects of computer games. The focus here is on games that have been described as serious games (Michael and Chen 2006, Mitgutsch 2011), civic games (Kahne, Middaugh and Evans 2008), and persuasive games (Bogost 2007, 2008). While these terms are often used interchangeably throughout the literature, this study refers to them here as persuasive games, based on the assumption that their goal is to facilitate changes in attitudes and/or behaviors.

In addition to their popularity, computer games' structural and content features may make the learning process more appealing and goal-oriented (Gee 2008, Mitgutsch 2011, Squire 2003, Tawil-Souri 2007). These qualities have also led to the use of computer and video games for social and political purposes. The U.S. Army has been using computer and video games to boost its recruitment numbers (Reiss 2009), and advertisers and marketers have been integrating products and advertising messages in various gaming environments (Bailey, Wise and Bolls 2009, Smith and Just 2009, Wise et al. 2008). While this terminology puts vastly different games into one group, the commonality among these different types of computer and video games is their

the conflict.

Smith and Just (2009) agree with Bogost's (2007) claims that some sort of persuasion takes place when playing certain types of computer and video games, yet they call for a more analytical and rhetorical look at this medium. They argue that computer games vary in the level of persuasion due to three factors: message autonomy, integration, and goal. Furthermore, the level of persuasion depends on the extent to which a computer game contains these three factors. Below, this study describes GC, the computer game used here, in terms of these three factors.

- **Autonomy.** In GC, players choose the newspaper they wish to represent (Israeli, Palestinian or Western) and the quotes from the interviews they conducted that best reflect their response to in-game events. Players must make decisions in order to respond to these events, which are taken from real-life events in the conflict. According to Smith and Just (2009), autonomy deals with the level of explicit arguments presented within the game. While a low-autonomy game presents players with more arguments than a high-autonomy game, high-autonomy games are thought to elicit more deliberation, leading to greater persuasion. This study argues that GC is high on autonomy because it is based on responding to in-game events rather than evaluating persuasive arguments.
- **Integration.** Integration is the extent to which an object of persuasion (i.e., a product or brand) is embedded in the game design and content. From a traditional marketing perspective, GC does not have an object of persuasion per se. However, the object of the game—learning about the Israeli-Palestinian conflict— is thoroughly embedded in all game-play aspects, which this study argues makes this game an example of high integration.
- **Overlap.** Finally, Smith and Just (2009) argue that the level of overlap between the game's goal and its learning goal influences the level of persuasion. Games

with high overlap force players to elaborate on the game's learning objectives in order to perform well. This study argues that there is a high level of overlap between the game and learning goals in GC. Players in GC are scored according to ratings from different sides and need to establish good relations with both their own and the opposing side. In order to perform well, the player needs to learn which quotes to select in order to establish good relations with different sides in the conflict. For example, if a player representing an Israeli newspaper selects quotes that enhance only the Israeli side, then the resulting score would be low, as opposed to selecting quotes reflecting an understanding of both sides' objectives.

Based on Smith and Just's (2009) discussion of autonomy, integration and goal overlap, the current study classifies GC as a persuasive game. In fact, previous studies have indicated that GC can generate changes in attitudes towards the Israeli-Palestinian situation, even among Israeli-Jewish and Palestinian young people with strong and ethnocentric attitudes toward the situation (Cuhadar and Kampf 2015, Kampf and Cuhadar 2015). However, these studies focused on the Checkpoint scenario, and possible differences in episodic and human interest framing between this scenario and the Military Raid scenario in GC may make for distinguishable changes in their attitude outcomes (i.e., impartial attitudes) as illustrated in the next sub-section.

Episodic Framing: The Checkpoint Scenario vs. the Military Raid Scenario

According to Gamson and Modigliani (1987), a frame is "a central organizing idea or story line that provides meaning to an unfolding strip of events weaving a connection among them. The frame suggests what the controversy is about, the essence of the issue" (143). Numerous studies have shown that the particular frame

Yet the security concerns and violent actions in the Checkpoint scenario are presented in more human interest terms (e.g., a Palestinian who tries to break into the checkpoint is shot dead by an Israeli soldier or Israeli soldiers, and Palestinian civilians describe their security-related stress and suffering in their impossible situation at the checkpoint in the Palestinian territories). In contrast, the violent actions and security concerns in the Military Raid scenario are presented in less individual, personal and human interest terms (e.g., a group of Israeli soldiers uses force in order to break into a house in the village in which a group of Palestinian people accused of committing violent actions against Israelis is hiding, both sides shoot at one another with casualties on both sides, or describing general security concerns regarding terrorist attacks in Israel and Israeli military raids in the Palestinian territories).

Thus, there are some differences between the two scenarios in the extent of the scenario presented in human interest terms, as validated in a separate study presented in the Methods section conducted in 2017. The Checkpoint scenario focuses on a narrative that represents the hardships of both Israeli soldiers and Palestinian civilians at a checkpoint in the Palestinian territories, tending to present them as individual people who experience security-related stress and suffering from their impossible situation. For instance, this scenario presents the dilemmas of a soldier who shot a Palestinian civilian trying to break into the checkpoint. This scene emphasizes the soldier's emotional difficulties in shooting a person for the first time and his suffering from this incident. This scenario also presents the suffering of a Palestinian pregnant woman fainting after waiting for hours at the checkpoint. This scene emphasizes how this women asks the soldier again and again to let her through given her medical condition but she ends up waiting for hours at the checkpoint and going under security checks despite her special condition.

Research Hypotheses

H1: Participants playing GC will become more impartial towards the conflict than those who do not play the game.

H1a: Participants playing the Checkpoint scenario will become more impartial toward the Israeli-Palestinian conflict than those playing the Military Raid scenario.

H2: Israeli-Jewish participants playing the Checkpoint scenario in GC will become more impartial regarding the conflict compared to Palestinian participants playing it.

Methods

Participants

Two hundred and ten Israeli-Jewish and Palestinian undergraduate students from the Schools of Education in Tel-Aviv University and Al-Quds University participated in the experiment. Eighty participants played the Checkpoint scenario, including 50 Israeli-Jewish students and 30 Palestinian students. Seventy participants played the Military Raid scenario, including 40 Israeli students of Jewish origin and 30 Palestinian students. Sixty participants did not play the scenarios, including 30 Israeli-Jewish students and 30 Palestinian students.

Table 1 suggests that participants who played the Checkpoint scenario, the Military Raid scenario or neither did not differ in key characteristics that could provide alternative explanations for the results. A one-way ANOVA with scenario type as a between-subjects factor and political attitudes as a within-subjects factor suggested insignificant differences between the three groups in political attitudes ($F(1, 203) = .37, p = n.s.$).

fit for the newspaper selected for the assignment.

The player is challenged to keep her work objective while gathering important information to be used in the news report. In the meantime, the player experiences the developments in the Israeli-Palestinian conflict and learns about the issues that are central to this conflict. The student has to form an opinion based upon her own actions and after meeting characters who represent different attitudes towards the conflict, despite the fact that she writes for a specific newspaper.

Validation of Stimulus

Given that this study does not compare attitude outcomes of the same scenario presented in varying levels of episodic and human interest, two validation studies were conducted to indicate that the Checkpoint scenario presents more episodic and human interest elements than does the Military Raid scenario, and that attitude change may be the outcome of the framing effects rather than of other elements in the narrative such as the content.

In order to validate that the Checkpoint scenario frames the conflict in more personal, individual and human interest terms (i.e., episodic framing) than the Military Raid scenario, 45 Israeli students of Jewish origin and 35 Israeli students of Palestinian origin from the departments of communication and political science at Tel Aviv University were asked to play the two scenarios in random order.

It should be noted that the Palestinian participants were citizens of Israel and not from the Palestinian territories as were those participating in the experiment. Yet the majority of Palestinians in Israel have family ties to Palestinians in the West Bank and the Gaza Strip, as well as to Palestinian refugees in Jordan, Syria, and Lebanon. In fact,

Palestinians in Israel identify themselves as Israeli by citizenship and Palestinian by nationality (Ghanem 2001, Jamal 2007). The identification of Palestinians in Israel with Palestinians in the West Bank and the Gaza Strip is reflected in their language, religion, and culture, as well as in their negative attitude towards Israeli policy toward Palestinians in the West Bank and the Gaza Strip. In addition, previous studies conducted with computerized simulations of the Israeli-Palestinian conflict, such as GC and *PeaceMaker*, suggested insignificant differences between Israelis of Palestinian origin and Palestinians from the Palestinian territories in terms of attitude change and perspective taking regarding the conflict (Cuhadar and Kampf 2014, Kampf and Cuhadar, 2015).

After playing the two scenarios in random order, the participants were asked to evaluate the degree to which the framing of the situation was human, individual and personal on a six-point scale, with 1 representing not at all human, individual and personal and with 6 representing very much human, individual and personal. Results suggested that the Checkpoint scenario was perceived as framing the situation in more personal, individual and human terms than the Military Raid scenario ($M=4.8$, $SD=0.8$; $M=2.3$, $SD=0.56$; $F(1, 79)=91.8$, $p<.001$). Insignificant differences were found in terms of nationality and scenario order in the evaluation of the two scenarios.

In order to validate that the Checkpoint scenario and the Military Raid scenario are not perceived significantly differently from the content perspective (i.e., violent actions vs. security concerns), 40 Israeli students of Jewish origin and 30 Israeli students of Palestinian origin from the department of political science at Tel Aviv University were asked to play the two scenarios in random order.

After playing the two scenarios in random order, the participants were asked to

experimental group) or to not play either (i.e., control group). The participants received credit for their participation in the study. The data were collected in the last week of May 2016. No major event happened during this period that could provide an alternative explanation for the results.

The experimental condition took up to three hours and included four parts. First, the URL of the study was provided to the participants. When they opened the URL, they were introduced to the GC game and played a short demo not related to the conflict. Second, they filled in a short questionnaire administered online before playing the scenarios in GC. Third, participants played either the Checkpoint scenario or the Military Raid scenario in GC, randomly assigned by the study website. They were instructed that their task was to write a news report for a Western newspaper based on the interviews they conduct with various Israeli and Palestinian characters in the scenario. In the Checkpoint scenario, the participants were asked to write a news report describing life at a checkpoint in the Palestinian territories from the perspective of both Israeli soldiers and Palestinian civilians, while in the Military Raid scenario, they were asked to write a news report describing this raid from the perspective of both Israeli and Palestinian characters participating in it. The game also provides the options to write a news report for an Israeli or a Palestinian newspaper. This study preferred a Western newspaper over an Israeli or a Palestinian newspaper, because the former is considered a more neutral assignment for both Israeli-Jewish and Palestinian participants compared to the latter two because it involves trying to examine the situation from both Israeli and Palestinian perspectives. Finally, after playing the scenario, the participants again filled in a short questionnaire administered online. The questionnaire used before and after the scenario was almost identical in content with the exception of a few additional questions in the post-scenario questionnaire concerning participants' experience

with the game.

The control condition included three parts and took up to three hours. First, the URL of the study was provided to the participants. When they opened the URL, they filled in a short questionnaire. They were then given an online lecture about unobtrusive measures of studying political attitudes of young people (related to the class in qualitative research methods from which they were recruited, but not related to the conflict). Finally, they again filled in a short questionnaire administered online. The two questionnaires were identical in content and similar to those used in the experimental condition of the two scenarios (besides questions concerning participants' experience with the game).

Instruments

In order to assess impartial attitudes in the conflict, the study used a measure focusing on long-lasting historical issues in the conflict, examining the degree of 'rightness' of each side regarding key historical and political issues in the conflict including water, refugees, borders, settlements, Jerusalem, and security, using the following scale: 1. Palestinians are absolutely right, 2. Palestinians are somewhat right, 3. Both sides are equally right, 4. Israelis are somewhat right, and 5. Israelis are absolutely right. The end categories of this scale indicate more ethnocentric attitudes towards the conflict, while the middle category indicates more impartial attitudes towards the conflict. In order to measure impartiality and ethnocentricity in this study, the data was transformed by measuring the distance to the middle-point which represents impartiality. A larger distance indicates less impartial attitudes (i.e., more ethnocentric attitudes) and a smaller distance indicates more impartial attitudes.

This measure has already been used in previous studies conducted with computerized simulations of the Israeli-Palestinian conflict, which examined impartial attitudes in participants who are direct parties to the Israeli-Palestinian conflict and those who are secondary/tertiary parties to the conflict (e.g., Cuhadar and Kampf 2015, Kampf and Cuhadar 2015), and it is based on a questionnaire developed by conflict resolution scholars in Israel and Palestine (e.g., Bar-Tal 2013, Rosen and Salomon 2011). A factor analysis indicated that in the pre-game intervention, the six key issues were loaded on one factor explaining 64.38% of the variance. Similarly, a factor analysis indicated that in the post-game intervention, the six key issues were loaded on one factor explaining 66.23% of the variance. Therefore, the average of answers given on the six key issues (after the transformation specified above) was used as a measure of attitude change about key issues in the conflict before and after playing the game.

The study measured the relevance of the Israeli-Palestinian conflict to the participant (the extent of attachment) because it can indicate attitude strength, which is closely related to taking a less impartial view on the conflict (e.g., Eagly and Chaiken 1998, Pettigrew 1998). People holding strong ethnocentric attitudes on issues which are more relevant to them may find it harder to become more impartial regarding the situation (e.g., Bar-Tal 2013, Eagly and Chaiken 1998, Rystfel et al. 2014). This measurement was taken by asking a question examining the participant's degree of emotional involvement regarding the Israeli-Palestinian conflict. A four-point scale was used in this question, with 1 representing completely uninterested and 4 representing extremely interested.

Political attitudes were measured by the following question: "If you were to place yourself on the following scale, where would you locate yourself in political terms?" A

Results

Scenario type and impartial attitudes toward key issues in the Israeli-Palestinian conflict

Results suggested that the main effect of time on impartial attitudes towards key issues in the conflict was insignificant ($F(1, 202)=0.23, p=n.s.$). The interaction between time and scenario type was significant, suggesting that the three groups differed in impartial attitudes towards key issues in the conflict ($F(2, 202)=17.6, \eta^2=.18, p<.001$). The interaction between time and nationality was significant, suggesting that Israeli-Jewish and Palestinian participants differed in impartial attitudes towards key issues in the conflict ($F(1, 202)=10.21, \eta^2=0.04, p<.05$). The interaction between time, nationality and scenario type was significant, suggesting that Israeli-Jewish and Palestinian participants differed in impartial attitudes towards key issues in the conflict in the three groups ($F(2, 202) = 6.54, \eta^2 = .04, p < .05$).

Tests of between-subjects effects suggested significant results for nationality ($F(1, 202)=2.69, \eta^2=0.09, p<.0001$) and scenario type ($F(2, 202)=.662, \eta^2=0.03, p<.0001$).

Table 2 suggests that before playing the game, Israeli-Jewish and Palestinian participants were less close to the middle-point of impartiality regarding key historical issues in the conflict (i.e., more ethnocentric attitudes). Second, participants playing the Checkpoint scenario got closer to the middle-point of impartiality regarding key historical issues in the conflict after playing this scenario, unlike those playing the Military Raid scenario and those not playing either. Third, Israeli-Jewish participants playing the Checkpoint scenario got closer to the middle-point of impartiality regarding key historical issues in the conflict than did Palestinian participants playing this scenario. Finally, during the same time, no change in attitudes towards key issues in the conflict was found in the control group, and they

	Key Issues (Before-After) M(SD)
Israeli-Jews	
Checkpoint	.694(.005)***
Military Raid	.261(.006)
No scenario	.054(.006)
Palestinians	
Checkpoint	.407(.006)***
Military Raid	.210(.006)
No scenario	.042(.005)

*** < .0001

Table 3. A Bonferroni test for attitude outcomes regarding the Israeli-Palestinian conflict.

Discussion and Conclusions

The current study employed a controlled experiment to investigate the effect of GC, a computerized simulation of the Israeli-Palestinian conflict, on the degree of change in Israeli-Jewish and Palestinian students' attitudes toward the conflict as a function of the extent of episodic and human interest framing of two scenarios in this game.

Key Results

The results suggested that Israeli-Jewish and Palestinian participants who are direct parties to the conflict became more impartial regarding long-lasting historical issues in the conflict after playing the Checkpoint scenario. However, the same effects were not obtained for the Military Raid scenario. This may be due to the different episodic and human interest framing of the story in the two scenarios. Though both scenarios focus on particular cases, the Checkpoint scenario, more than the Military Raid scenario, presents personal, human interest and individual elements of both Israelis and Palestinians at a checkpoint in the Palestinian territories, an experience which may produce empathy and identification with both sides, eliciting more impartial attitudes towards the situation.

outcomes in this study, developing more impartial attitudes towards the conflict after playing the Checkpoint scenario.

Theoretical, Empirical and Practical Implications

The current study provides new insights to the study of computer game effects. While much previous research focused on the effects of violent computer games (e.g., Anderson 2004), the current results illustrate that playing role-play computer games that include episodic and human interest elements can lead to positive changes in attitudes toward a situation. More specifically, the results indicate that a short period of playing the Checkpoint scenario in GC was sufficient to induce changes to the cognitive structures guiding the situation. Indeed, this finding is limited to the short-term effects, as the measures were employed right after the game-play experience. Future research should explore the long-term effects of such games on attitude and behavior changes. The results can shed light on potential positive media effects on individuals' attitudes and behaviors.

This study suggests that the framing of the story in the game may be a factor that influences the success of computerized simulations in changing strong beliefs and attitudes of direct parties to the conflict. It suggests that in order to improve the results, the story should be framed in episodic terms focusing on personal, individual and human interest representation of particular cases of individuals on both sides of the divide. Additional future study should continue analyzing the impact of framing on attitude outcomes in computerized simulations of protracted and intractable conflicts like the Israeli-Palestinian situation.

The current findings strongly establish the Checkpoint scenario in GC as an efficacious intervention for countering ethnocentric and stereotypic attitudes in

Israeli-Jewish and Palestinian young people. The study's findings strongly support the use of such a game-based intervention approach when designing programs for reducing ethnocentric and stereotypic attitudes in intractable conflicts like the Israeli-Palestinian situation. Given that positive attitude outcomes were obtained after such a short and minimal intervention, game-based interventions like the Checkpoint scenario could be a relevant tool for reducing stereotypic and ethnocentric tendencies among youth who live in areas affected by war, conflict and ethno-political tension.

The current study's theoretical findings are applicable to various fields, such as communication, education, political science, game design and conflict resolution. The study shows that new media, specifically persuasive computer games, are capable of inducing changes in attitudes towards complex situations like the Israeli-Palestinian conflict, as well as promoting and educating the younger generations about peace and informing them about the situation and the world around them, transcending existing attitudes and stereotypes. While face-to-face interaction is limited and precluded in the context of the Israeli-Palestinian conflict, computer-mediated communication, much like playing the Checkpoint scenario in GC, has the potential of facilitating conflict resolution beyond existing sociopolitical norms (Kampf 2011, Walther 2009). Also, additional delayed measures of attitude outcomes might be useful in illustrating long-term behavioral changes and not only immediate attitudinal changes.

Limitations

Though very promising, the study's findings should be considered with caution and interpreted in light of the following limitations. First, future research should more directly examine the effects of the same scenario presented in more or less episodic

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