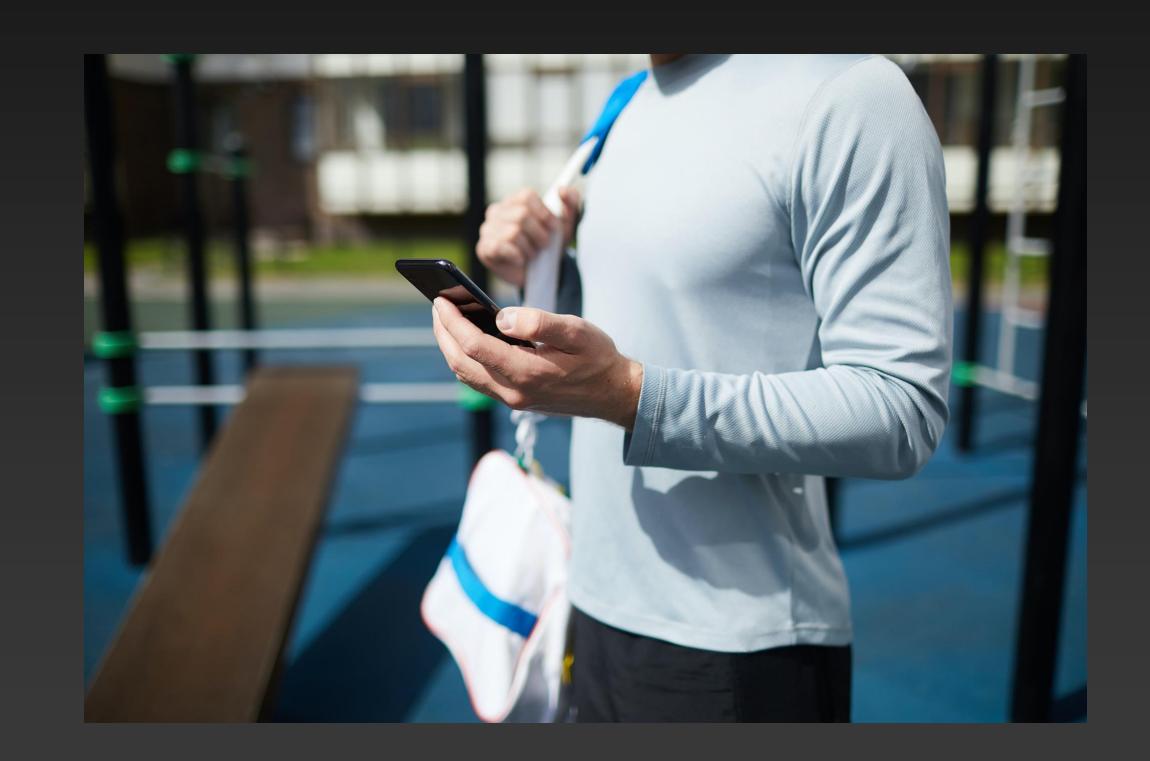
Practising Safe Sex(t) - A Serious Game

Building a game-based mitigation against Technology-Facilitated Sexual Violence

What is Technology-Facilitated Sexual Violence?

- Technology-Facilitated Sexual Violence (TFSV) is sexual violence carried out or enabled by technology.
- Commonly known crimes of TFSV are sextortion and revenge porn.
- However, there are at least **five** main crimes within TFSV.

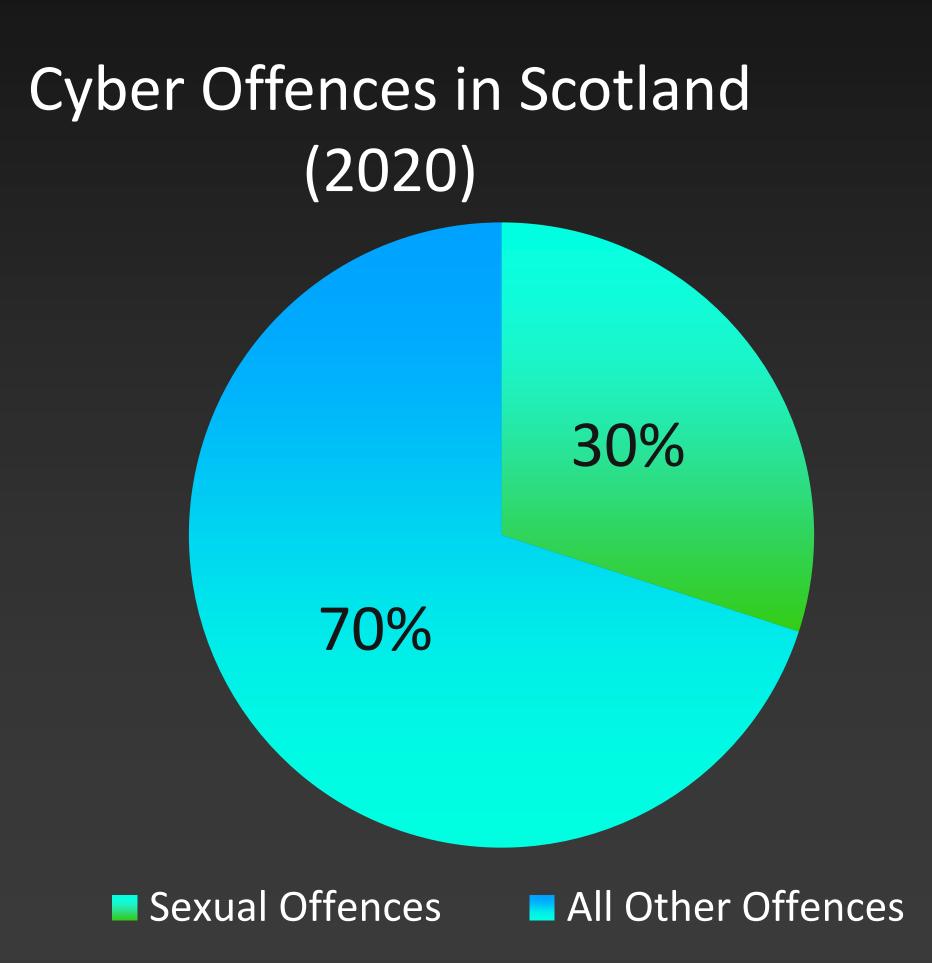


What is Technology-Facilitated Sexual Violence? Main Crimes

- Image Based Sexual Abuse
 - Revenge Porn
 - Sextortion
 - Video Voyeurism
 - Cyber-Flashing (Unsolicited Sexual Image Sending)
- The use of technology to facilitate in-person sexual violence
- These crimes are covered under the Sexual Offences 2009 and Abusive Behaviour and Sexual Harm Act 2016 (Scotland)

Why Technology-Facilitated Sexual Violence? Why It's On The Rise

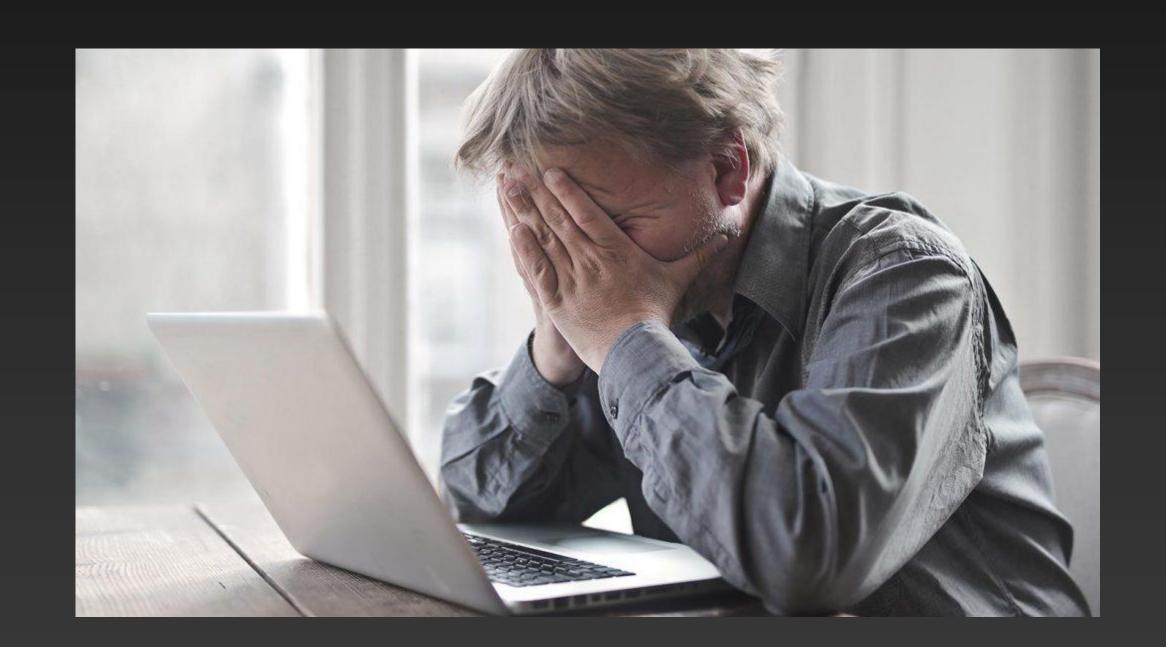
- More people accessing the internet
 = more criminals and victims.
- Pandemic meant more people had to work and live online.
- Also meant people engaged in sexual activities online.
- Caused an influx of people to be victimised by TFSV.



Out of 14,130 crimes - 4,239 were sexual offences.

What is the impact of TFSV? Victim Impact

- Studies shown women and LGBTQ+ people are more likely to be victims.
- Men are victimised too, but more likely to be perpetrators.
- Victims may experience emotional and mental abuse, as well as physical abuse.
- Victims are also more likely to become depressed and suicidal.



What are the mitigations available? Legal Mitigations

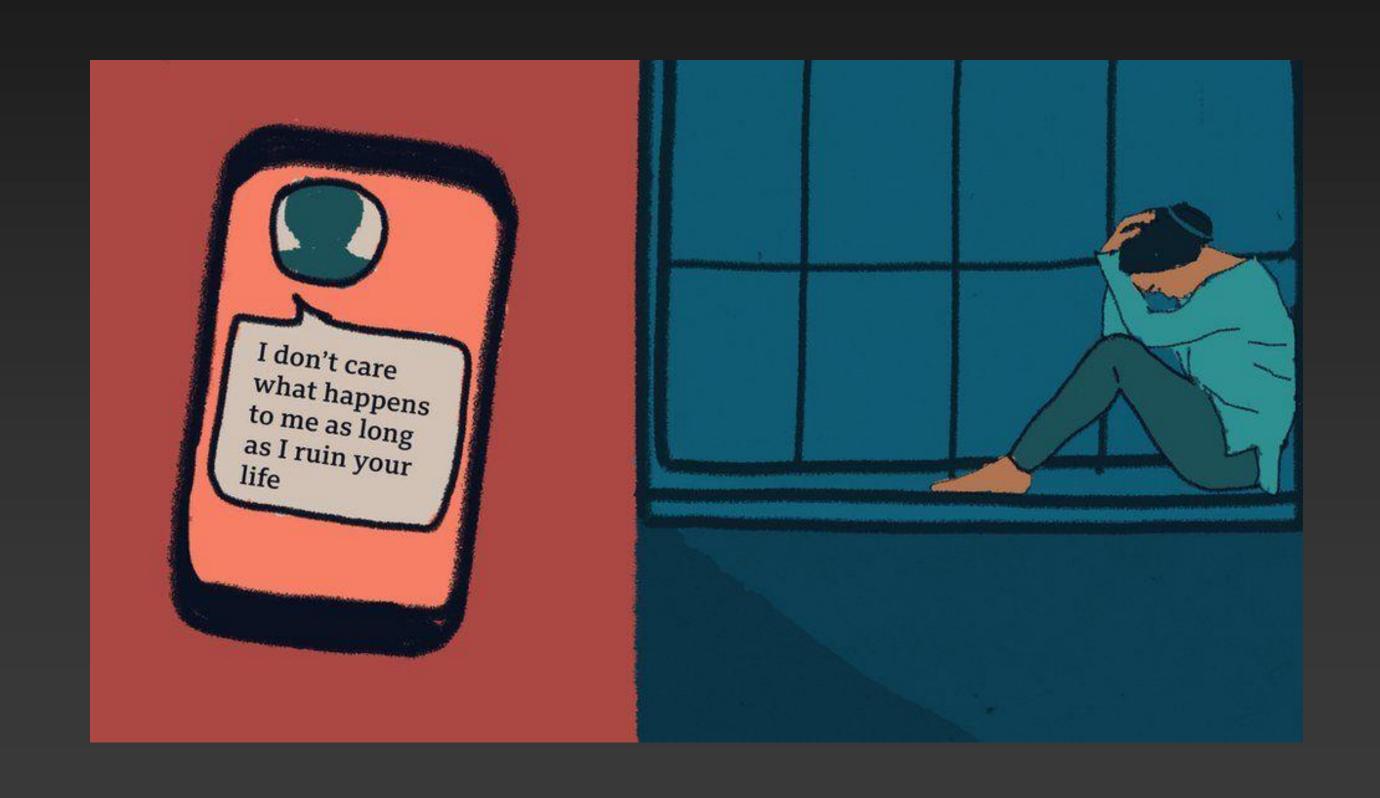
- The police are aware of the rise in TFSV.
- Current policing is **reactive** to TFSV.
- They aim to roll out 'proactive and preventative actions'.
- Recently released the 'Don't Be That Guy' campaign.
- Focuses on 18-24 year old men, which studies show are more likely to be perpetrators of TFSV.





What are the mitigations available? Specialist Mitigations

- Revenge Porn Helpline, Rape Crisis and SURVIVORSUK are all dedicated mitigations.
- Charities have admitted they do not have the training or support required.
- Specialist support is inaccessible online support is only available a few hours a day.



What are the mitigations available?

Social Media Mitigations

- Sites such as Facebook, Twitter and Pornhub have dedicated mitigations.
- Are also **reactive** rather than proactive.
- Involve digital fingerprinting and human reviews of reported images.
- Easily circumnavigated and bypassed.

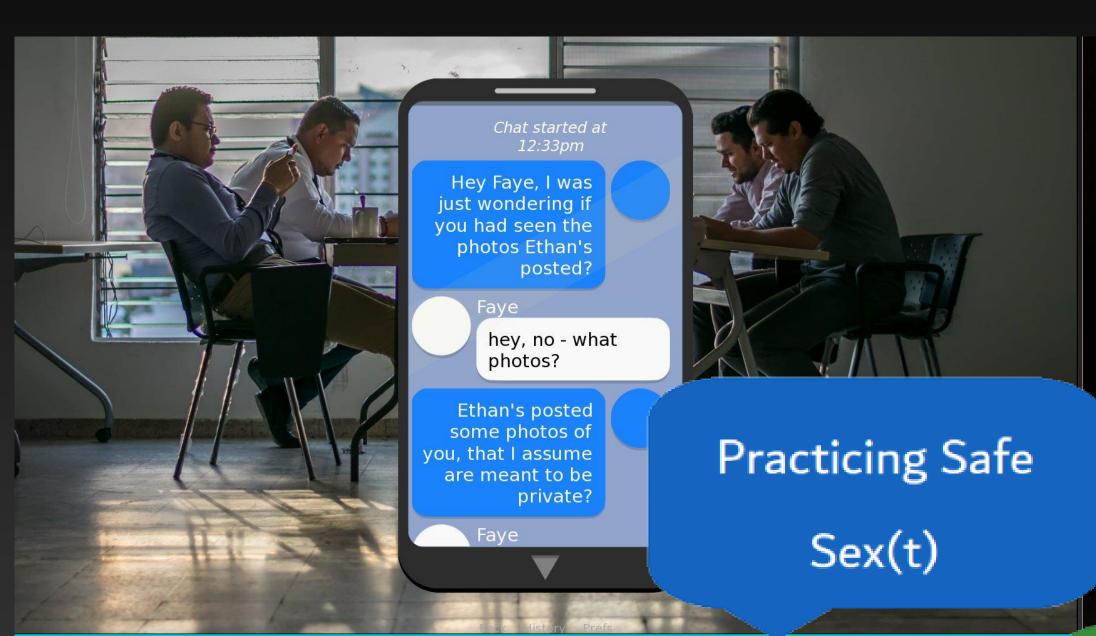


Why gamification? Using gamification to educate

- Serious games are built for education, rather than enjoyment.
- Intrinsic Motivation is key to gamification effectiveness.
- Autonomy, Mastery, Purpose.
- Prior research into gamification to educate is positive.

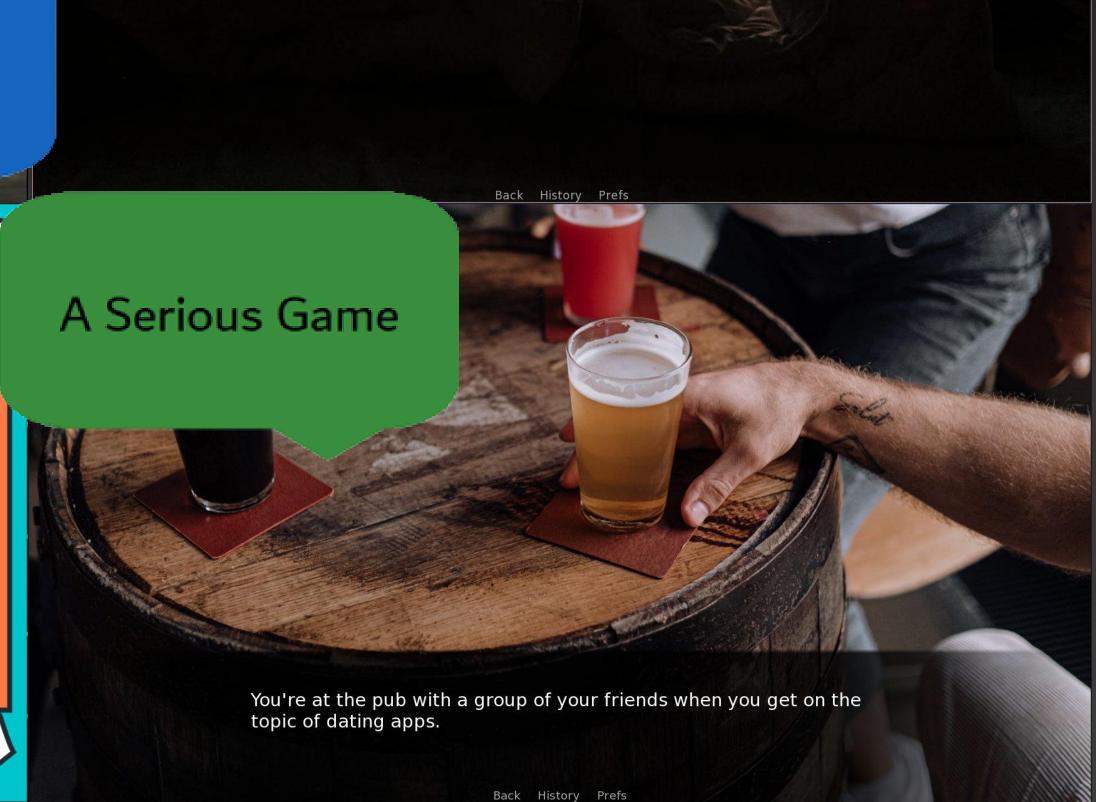


Project Artefact



TECHNOLOGY-FACILITATED SEXUAL VIOLENCE IS DEFINED AS SEXUAL VIOLENCE THAT IS CARRIED OUT OR AIDED USING TECHNOLOGY.

SEXUAL VIOLENCE CAN BE DEFINED BY CRIMES SUCH AS SEXUAL ASSAULT, RAPE, VOYEURISM AND SEXUAL COERCION UNDER THE SEXUAL OFFENCES ACT 2009.



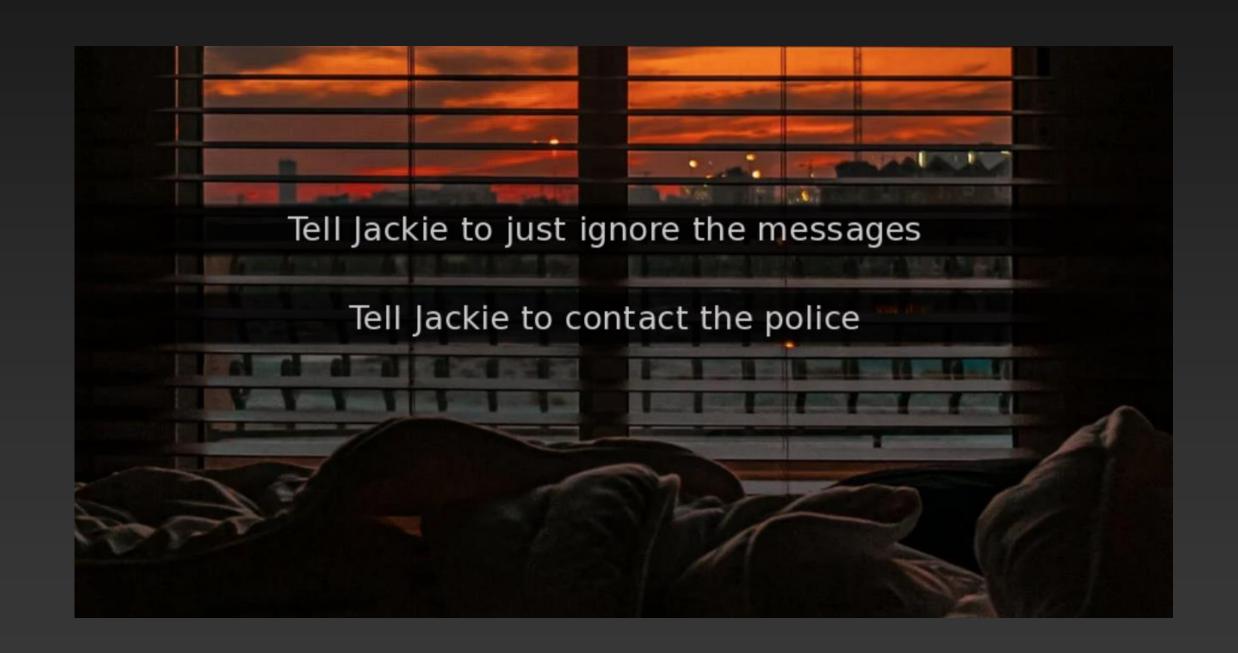
Tell Jackie to just ignore the messages

Tell Jackie to contact the police

WHAT IS TECHNOLOGY-FACILITATED SEXUAL VIOLENCE?

How does the game work? Visual Novels

- The game is a visual novel.
- Player makes choices that directly affect the character.
- Each choice will change the course of the story.
- For example, the player can report images, ignore them or contact the victim and let them know.



How does the game work?

How it was built

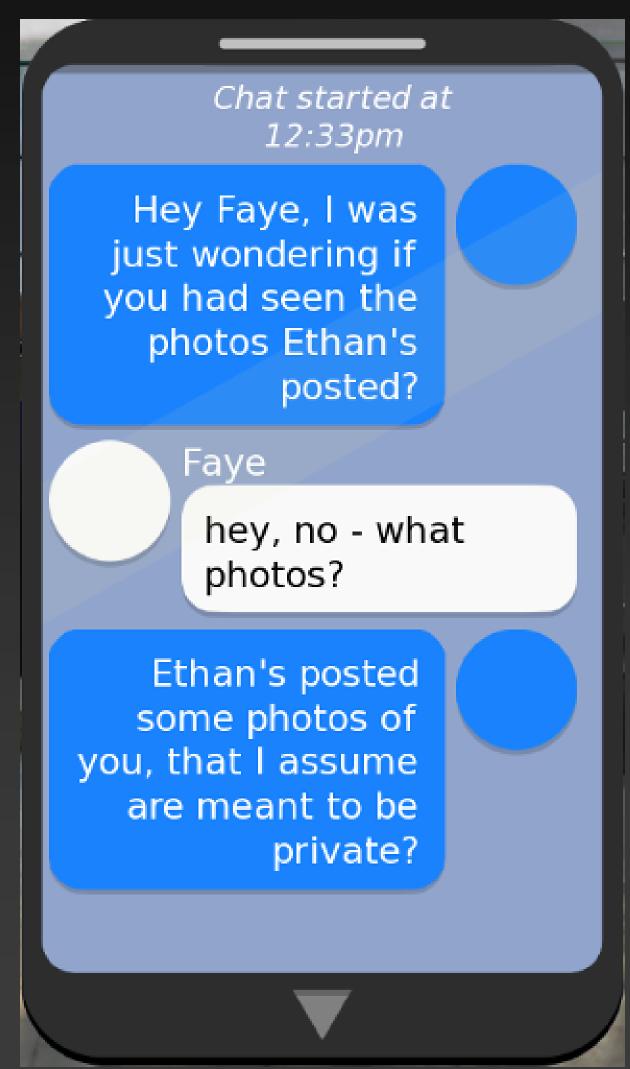
- Unity was considered, however learning curve was too steep.
- Ren'Py is a visual novel game engine.
- Uses python to code the game.
- Everything was coded by the researcher apart from the phone asset.

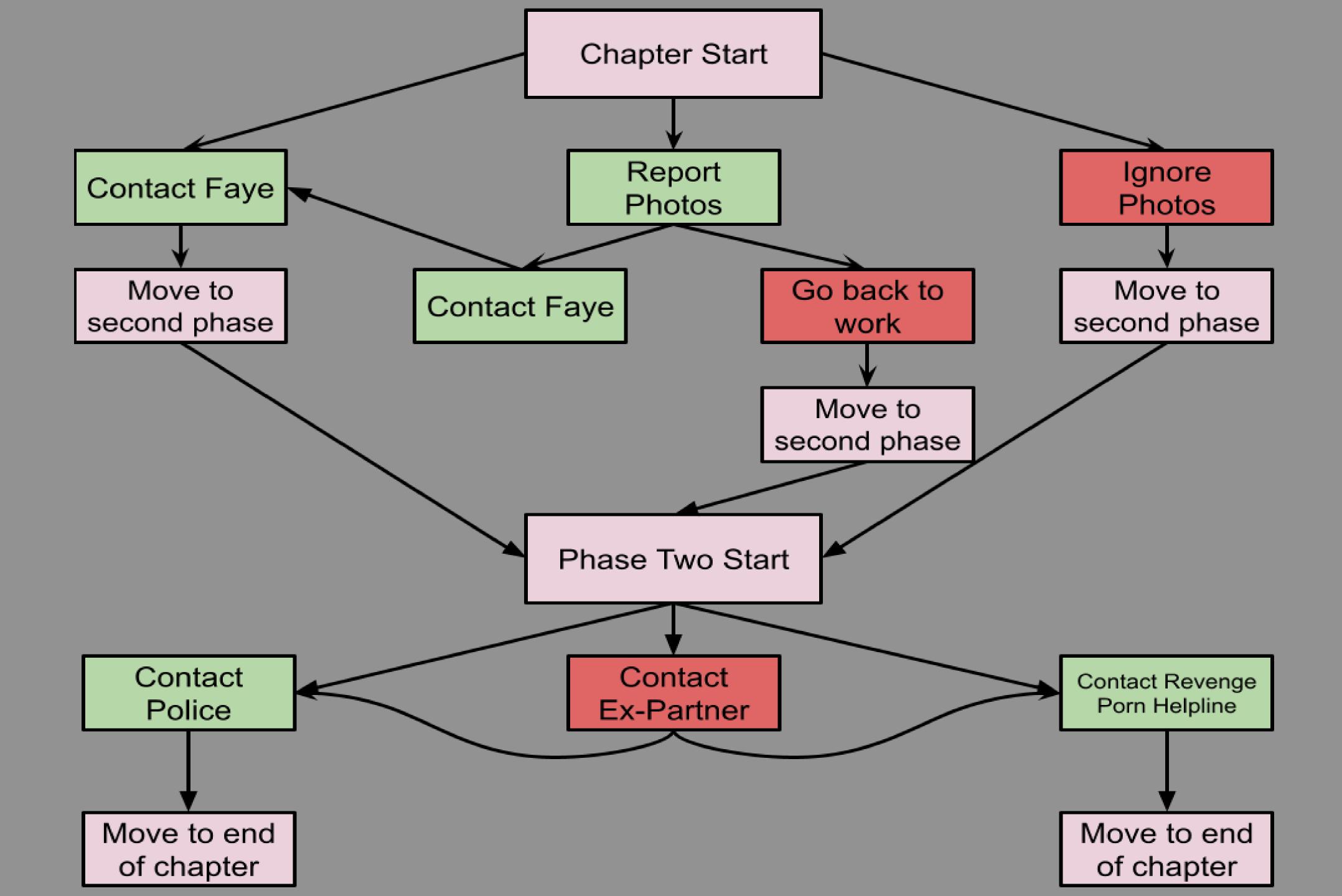


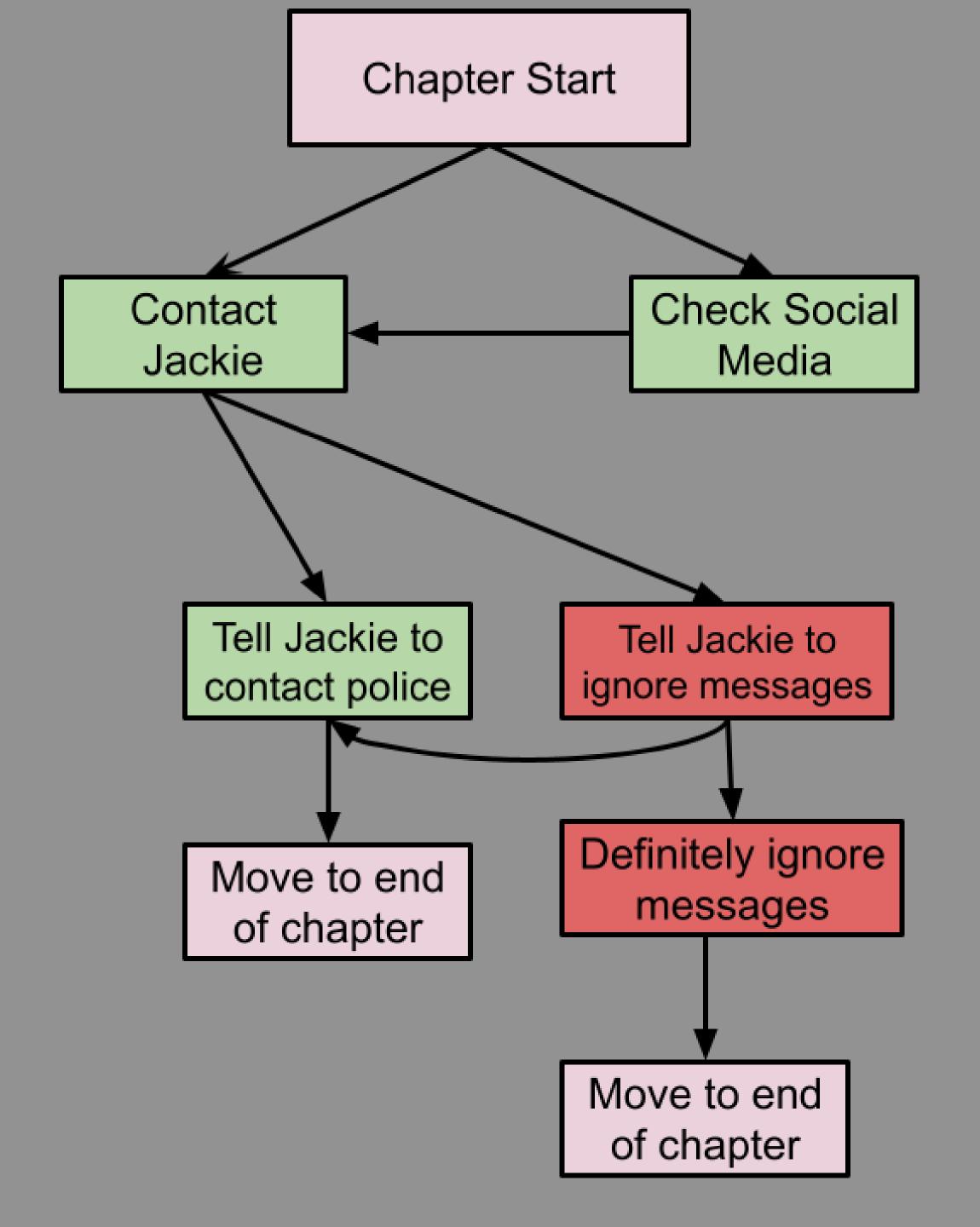


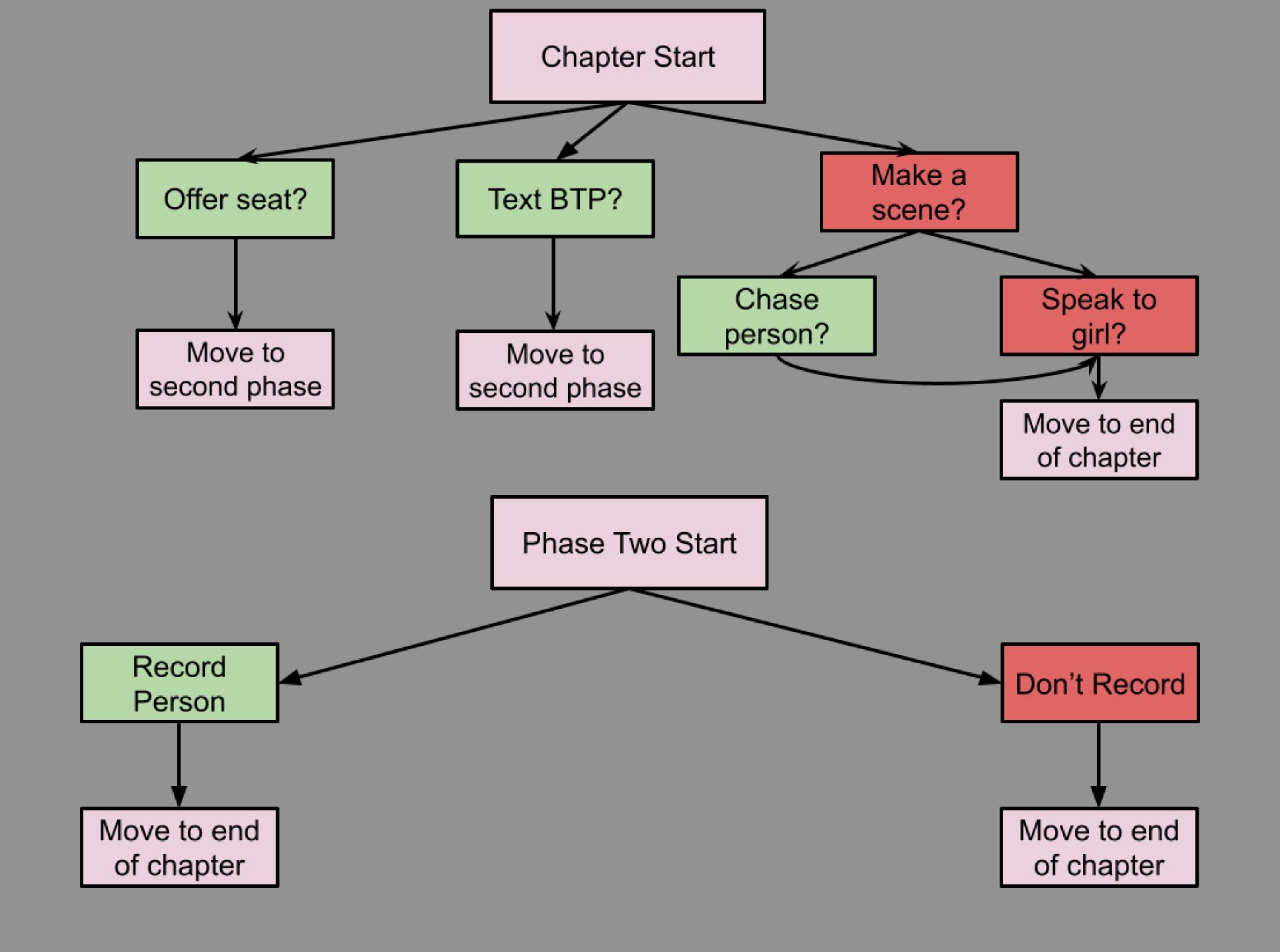
How does the game work? Chapters

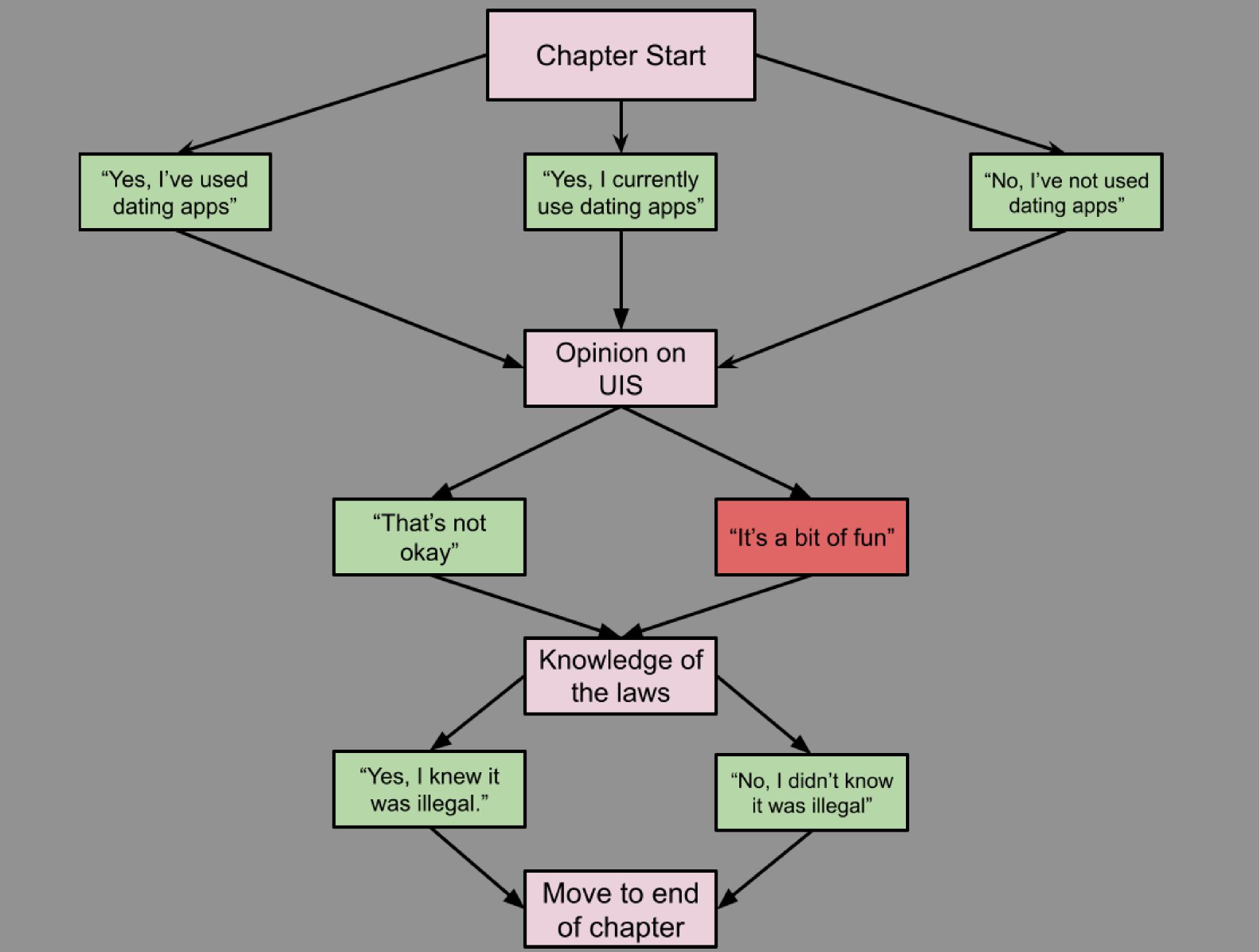
- Each chapter of the novel is based on a crime of TFSV.
- The chapters were designed from victims' own experiences.
- This was done to be more immersive and represent how victims will truly be feeling.

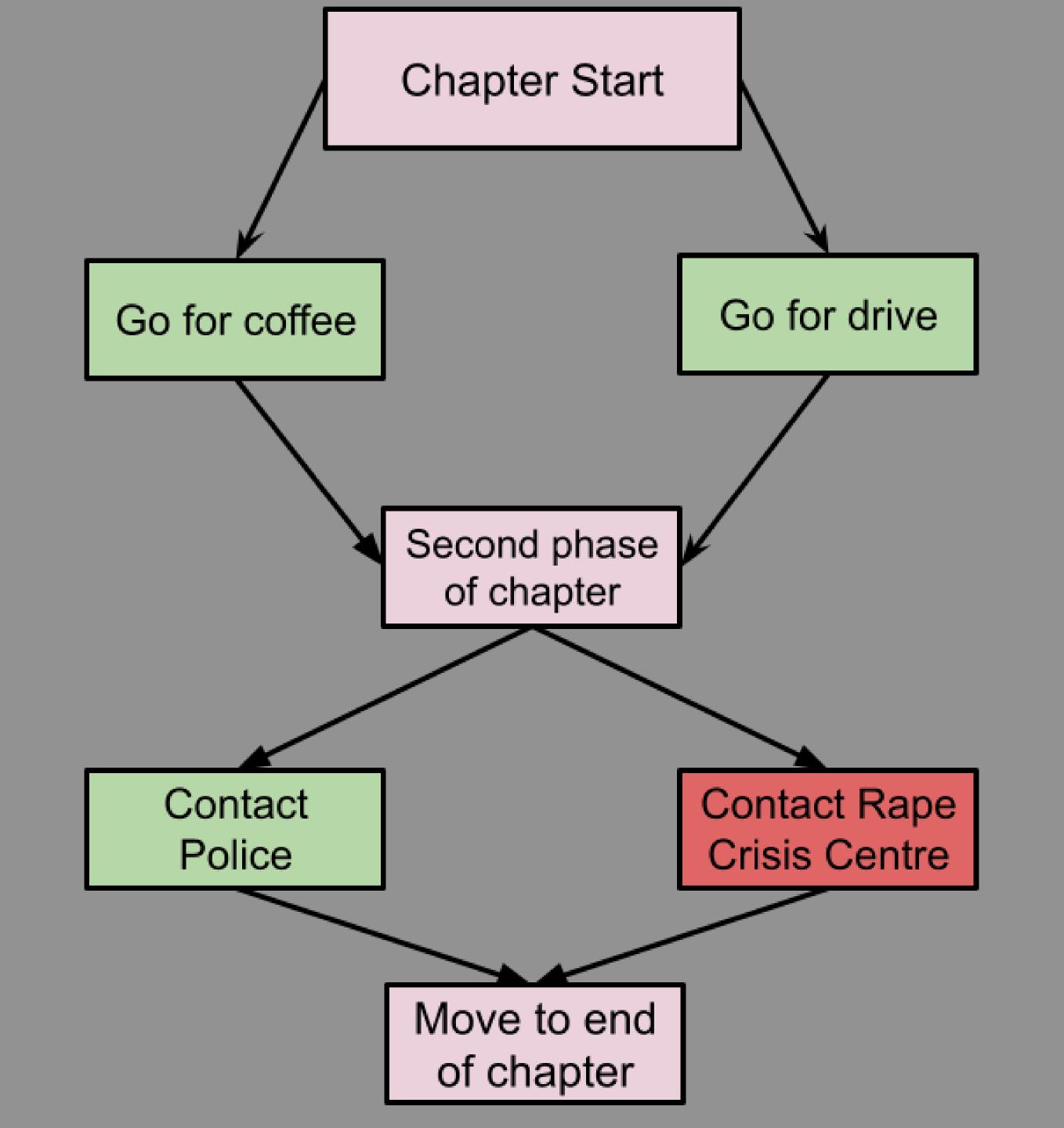






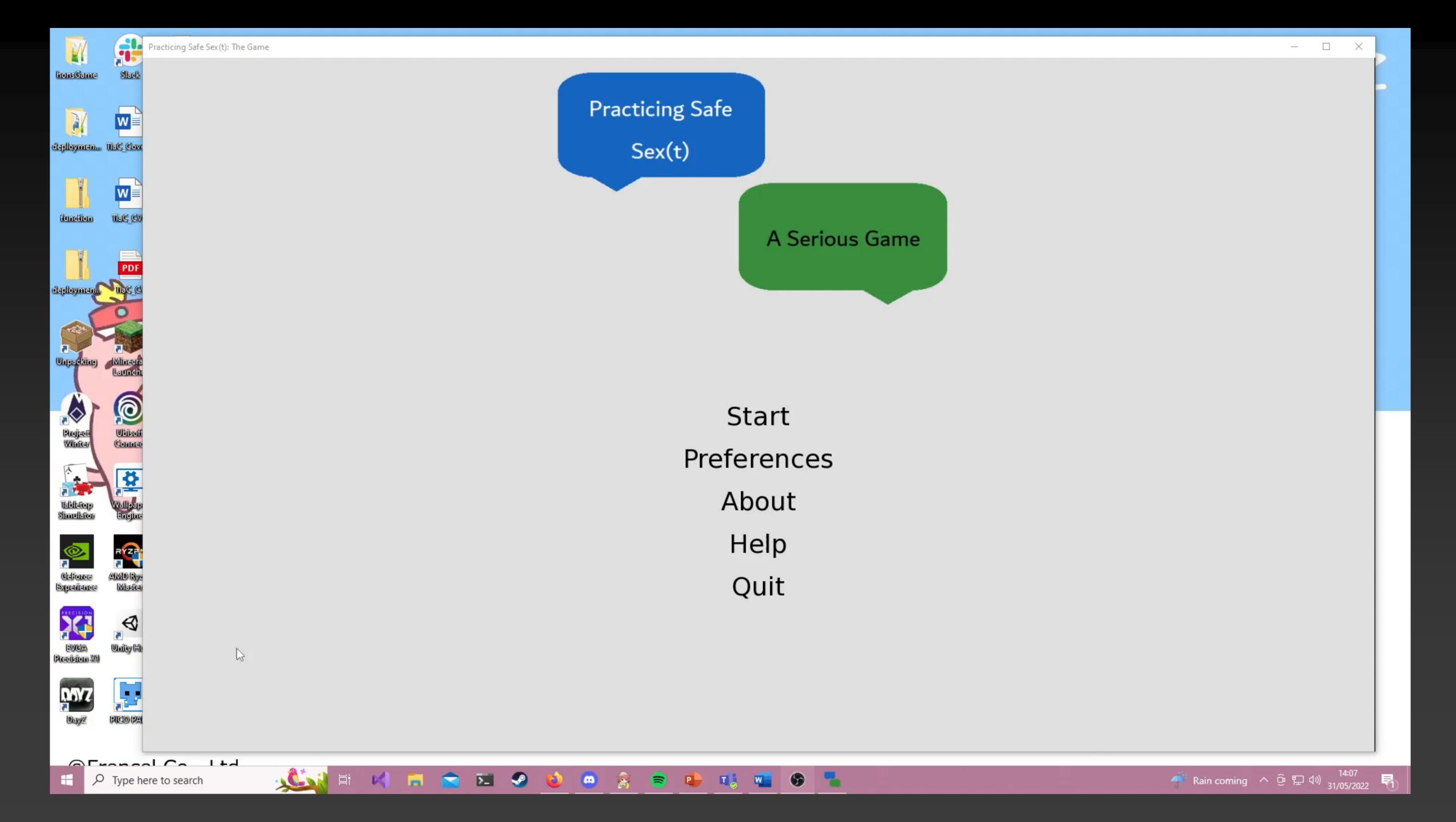






Demonstration of Game

Tutorial and Revenge Porn Chapter



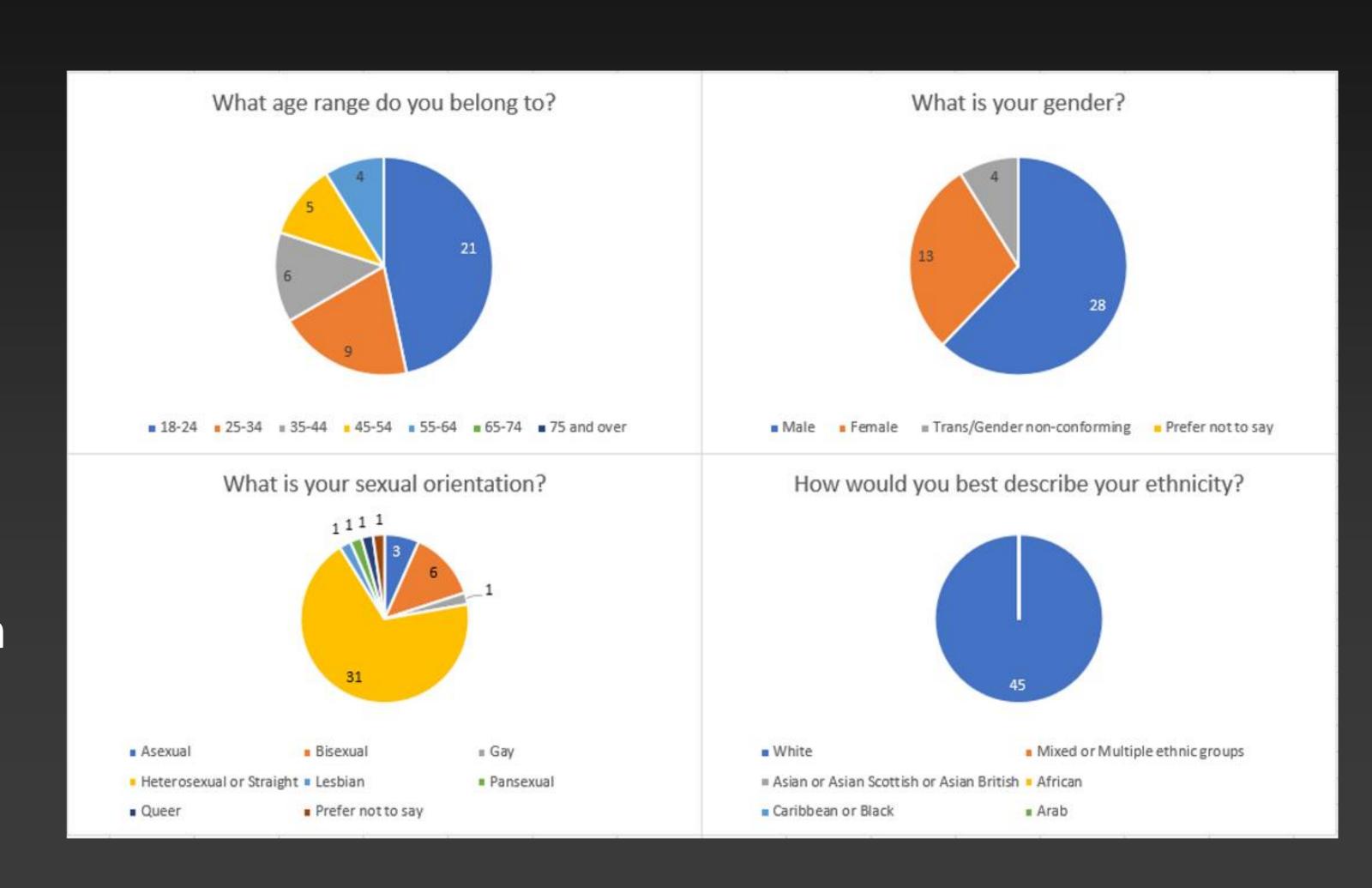
Evaluation

How was the game evaluated?

- Survey was created to evaluate game.
- Pre-game and Post-game questions.
- Demographic factors.
- Where to get help.
- How likely friends and family would be involved.
- Usability of game.
- Suitability of game and narrative.

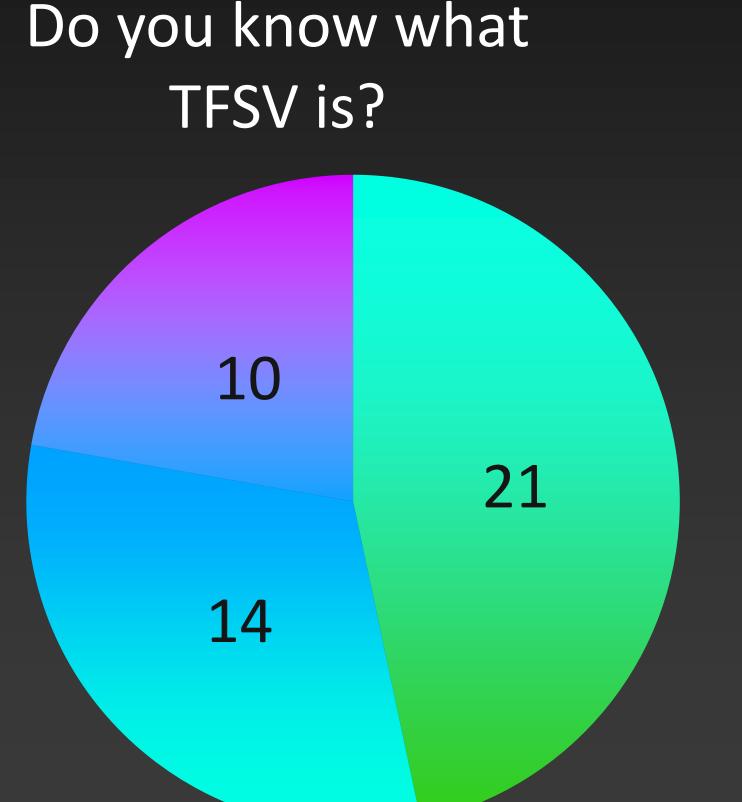
Was the game effective? Results of the Study

- Forty-five participants taken part.
- A wide range of people from all ages, genders and sexualities taken part.
- The main demographic represented was white, heterosexual males between the ages of 18-24.

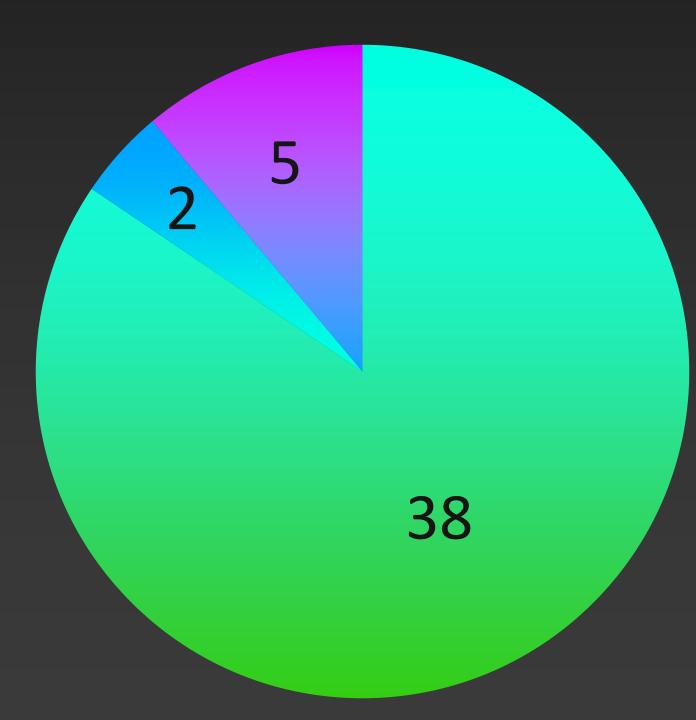


Results of the Study

- Before playing the game, only 21 participants knew of TFSV.
- After playing, all participants apart from 2, learned or maybe learned about TFSV.
- The 2 who answered no, already knew about TFSV

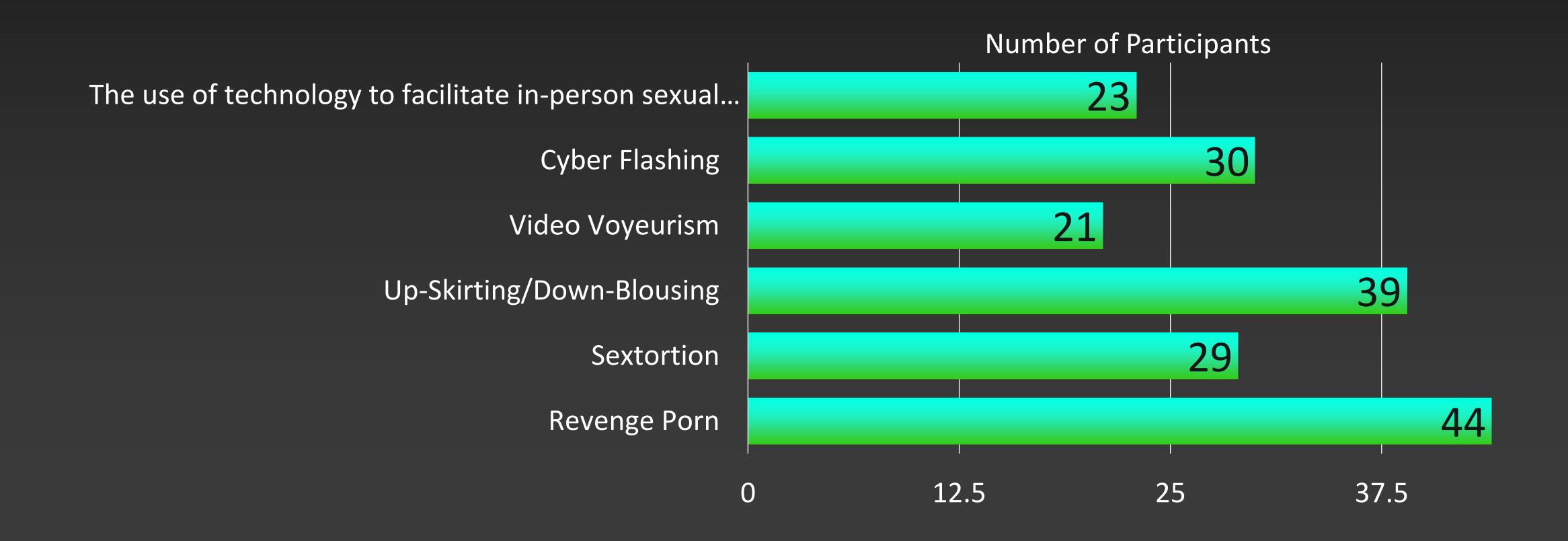


Do you feel like you learned about TFSV?



Results of Study

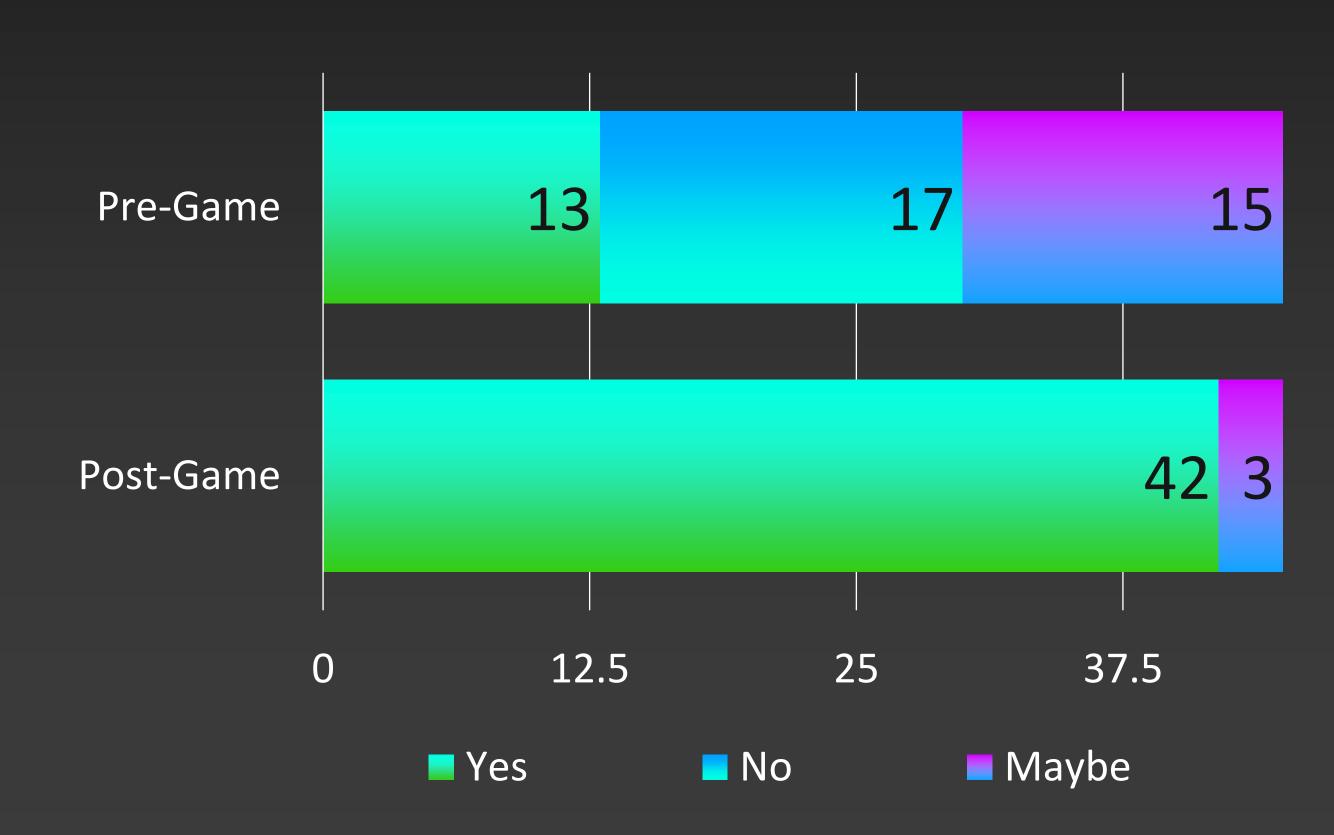
Do you know or have heard of any of the following TFSV crimes?



Results of the Study

- Before playing the game, only 13 participants knew where to get help for TFSV.
- After playing, nearly all participants apart knew where to get help.
- Only 3 felt they maybe knew where to get help for TFSV.

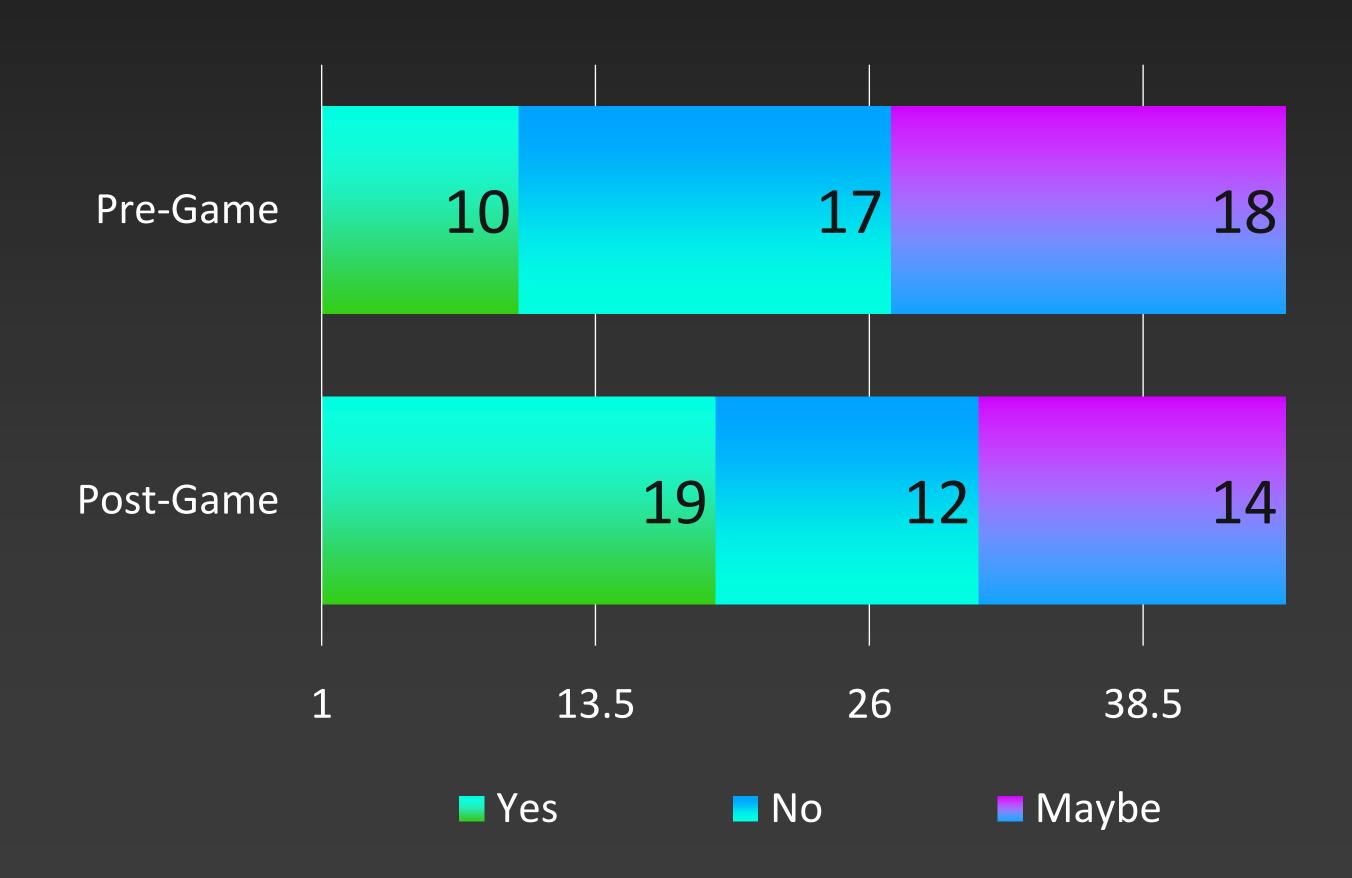
Do you know where/who you would reach out to if you were a victim of TFSV?



Results of the Study

- Most participants would not approach family about TFSV.
- Reasons cited were embarrassment and fear of victim blaming.

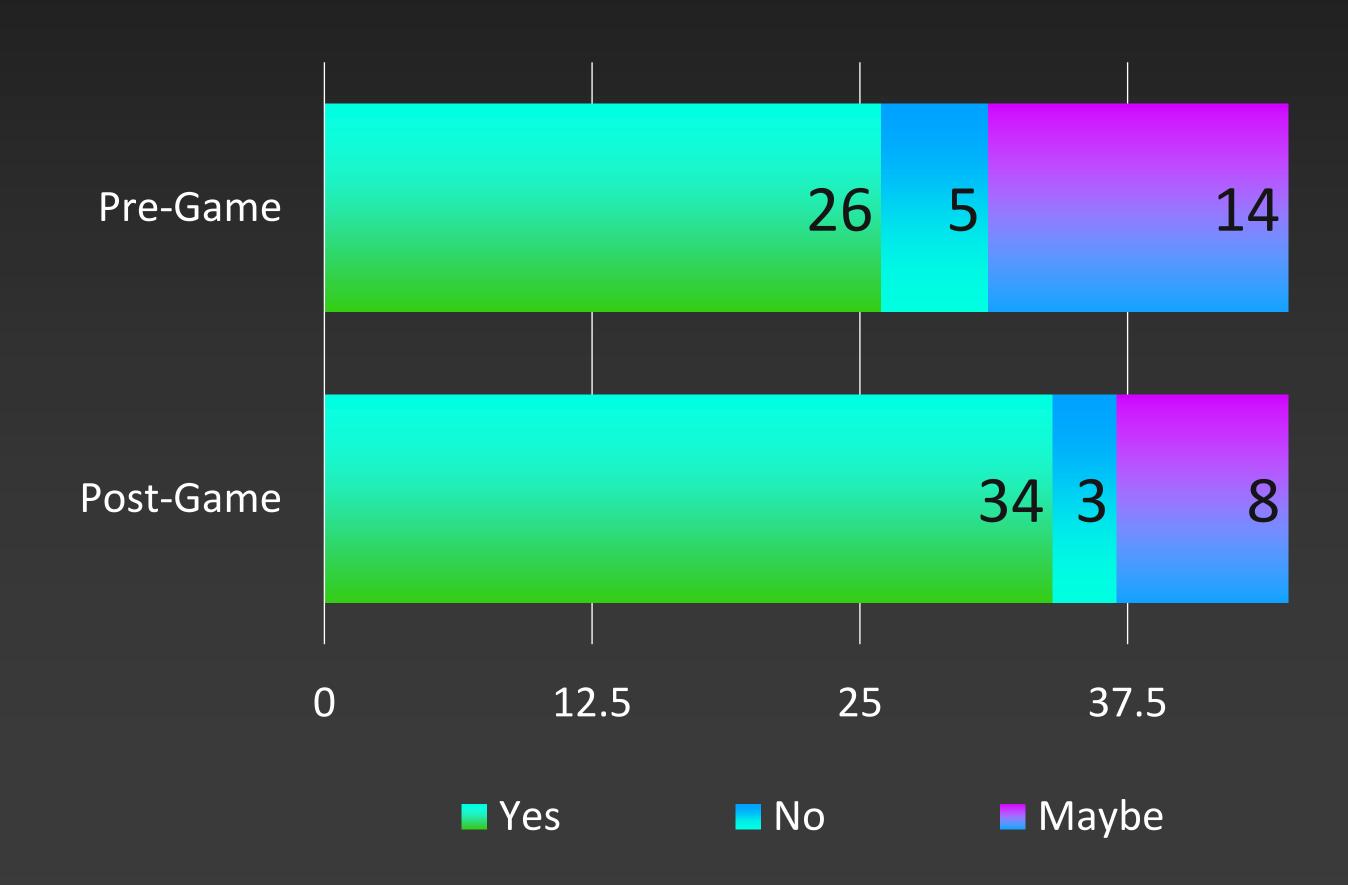
Comparison of likelihood to approach a family member about TFSV



Results of the Study

- Most participants would or would maybe approach friends about TFSV.
- Reasons cited for not asking friends was fear of judgment and bullying.

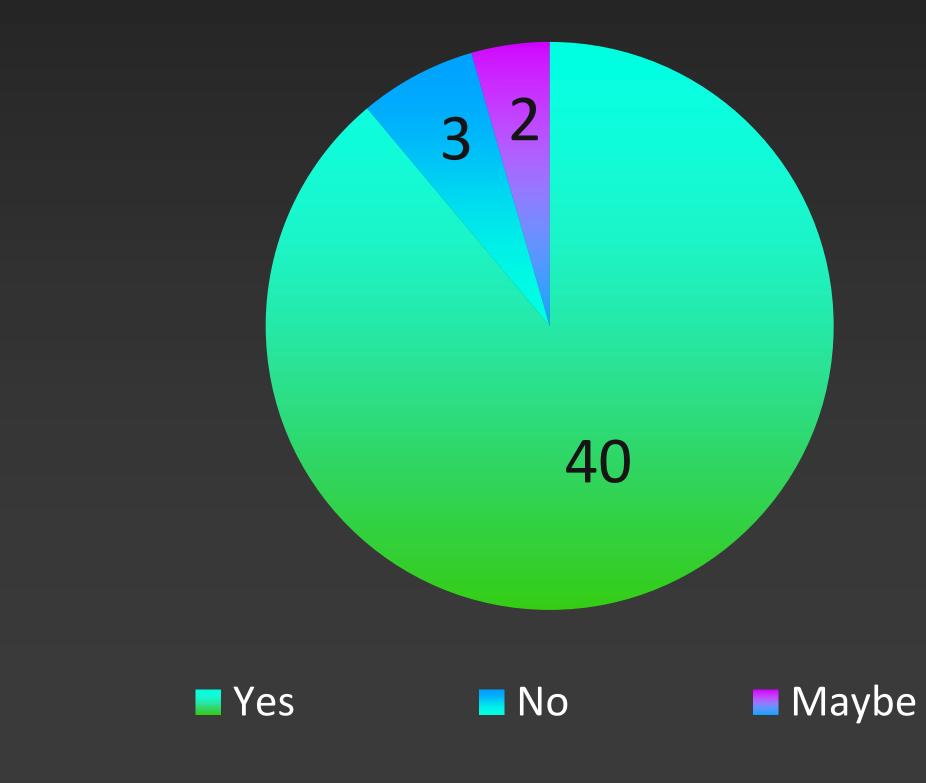
Comparison of likelihood to approach a friend about TFSV



Results of the Study

- The game was considered usable.
- The vast majority of participants felt the game was effective as a mitigation.
- They cited that the story was believable, immersive and easy to understand.

Did you feel the narrative was suitable for educating people about TFSV?



Questions?

Thank you for listening.