This project is using Ren’py, a popular visual novel engine, as a tool to enhance the user’s understanding of climate change. Using digital storytelling, as emphasized by Chen and Chuang (2019), will offer an engaging way to present even complex topics like global warming through narrative-driven learning, fostering a much deeper connection to the content. By utilizing Ren’py, this project's main goals are to create an interactive, visually rich experience, allowing the user to explore climate science concepts, effects, and mitigation strategies in a simulated environment.

Climate change is the most if not one of the most pressing global challenges, driven by human activities that increase greenhouse gasses (GHG), as discussed by Al-Ghussain (2018). The interactive aspect of this project shall educate users on causes, impact, and solutions to climate change, aligning with Fawzy et al. (2020) findings on the importance of understanding strategies that are used to mitigate climate change. The user engages in scenarios reflecting real-world issues, such as radiative forcing and its role in global warming (Pincus et al. 2020) and the importance of stabilizing global temperatures (Hoegh-Guldberg el al., 2019).

Through choices, interactive dialogue, and some minigames, the user confronts these decision-making, and problem solving processes regarding environmental policies, as stated by Poortinga et al. (2019) on the role of individual perceptions in climate change. As the user progresses through the storyline, the visual novel presents research-based findings, using real data to find the significance of reducing CO₂ and CH4 emissions and adopting sustainable practices (Giannelos et al., 2024). Furthermore, the project uses Ren’py’s accessible design features to create meaningful experiences, highlighting its capacity to support education content, as demonstrated by Consalvo and Staines (2020) and Ciesla (2019).

This approach positions digital storytelling as a very powerful method to demystify complex scientific data, making it more accessible and engaging for the general public, disregarding everything, whether if the user is young or old, woman or man or else, have science background or not, making this project very interesting. As listed by Wardana (2020) that have utilize Ren’py in teaching for high schools, merging narrative structure with educational content on climate change, the project not only educate the user on what is climate change and global warming, but also encourages them to adopt a sustainable behaviors, reinforcing the human imperative to respond to climate change challenges (IPCC, 2022).

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