COVID, Code, and Competition!

Ben Drucker

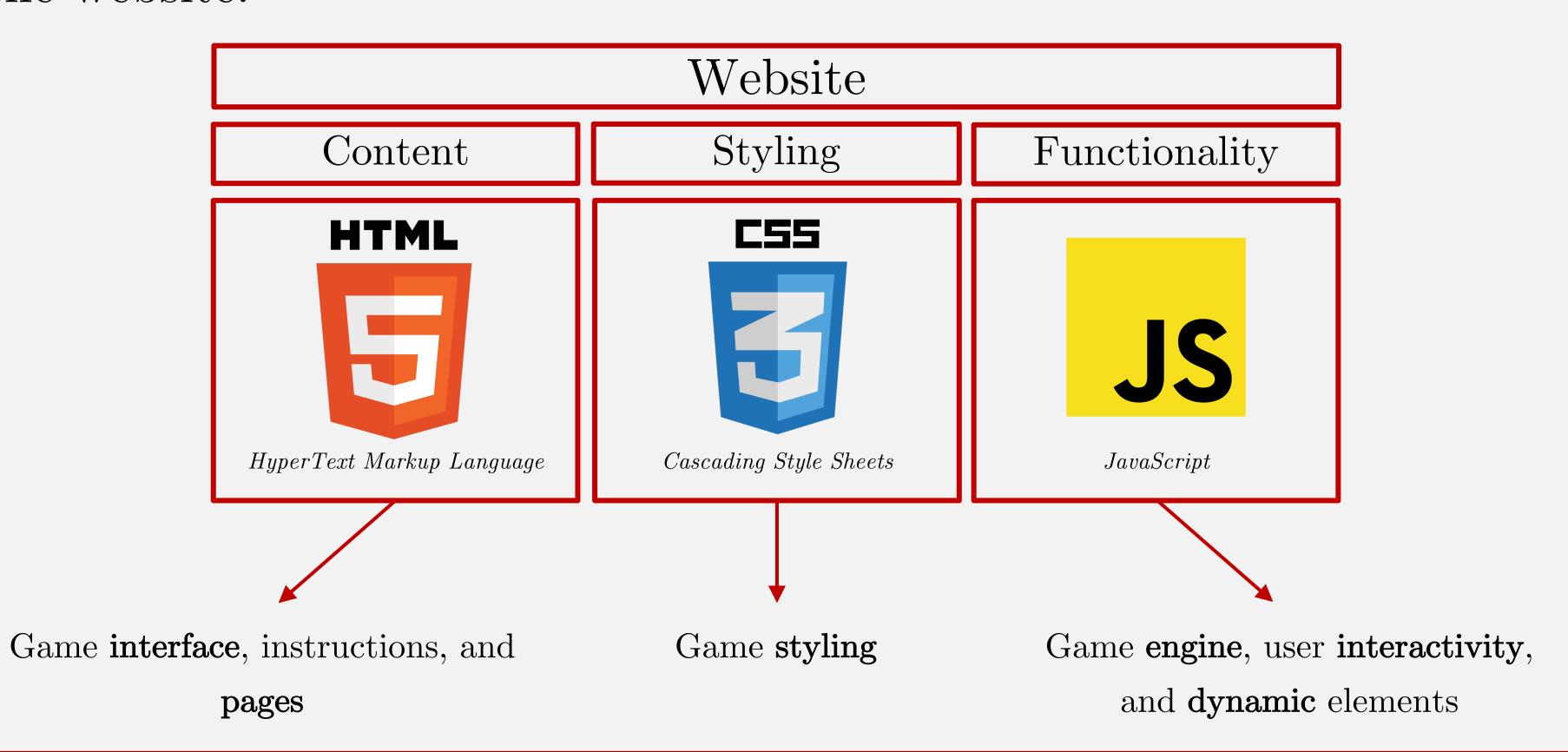
Problem and Objectives

- During the creation of this project, the COVID-19 pandemic was (and still is) a deadly scourge.
- Misinformation and lack of information continue to contribute to the pandemic's tenacity. We sought to bring understanding to prevention policies such as masking, distancing, shutdowns, and vaccines.
- We wanted to create something that would be accessible (i.e., crossplatform) and with which people would enjoy engaging.
- We designed a retro-aesthetic game titled "Mask-It or Casket!" (See image below.)



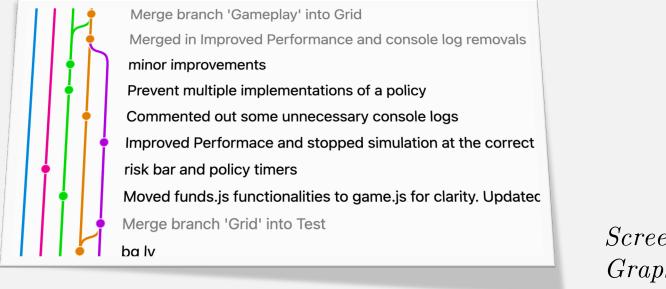
Technology Background

- We decided to design a web-based video game so our creation would promote engagement on a variety of devices.
- We employed the following standard languages for different components of the website:



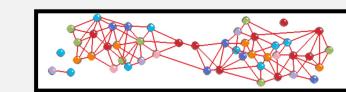
|Implementation|

- The entire (front-end) of the web-game is hosted by GitHub sites.
- Git and VScode were crucial in coordinating contributions.



Screenshot of Git Graph display

- Mask-It or Casket can be separated into the following major components:
 - Instructions pages
 - Main game interface
 - Game engine (using graph data structures)

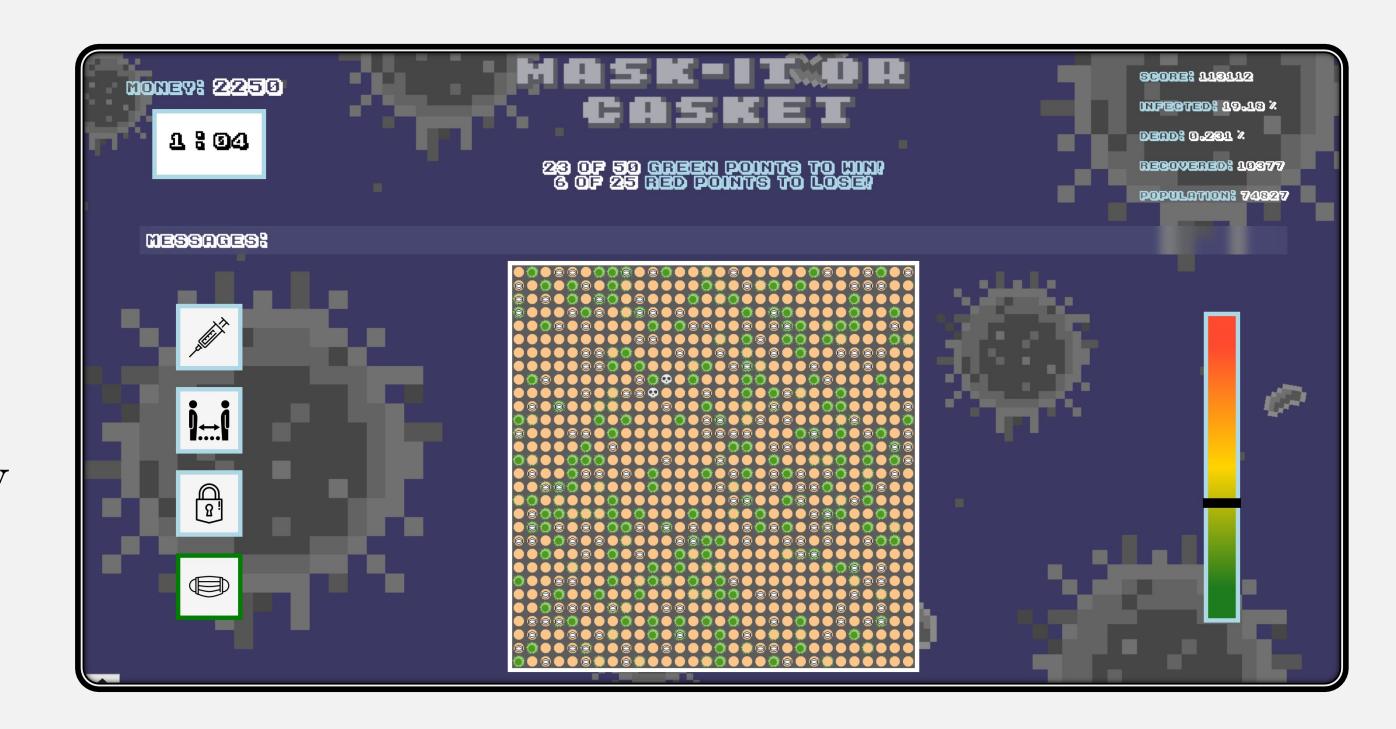


• Leaderboard (using SQL database on Swarthmore CS machine)



Gameplay

- Players have two minutes to keep disease spread and deaths as low as possible.
- © Players are given money to implement various policies to achieve this goal



Conclusions

- Although each of my group members and I had modest experience with web development, we found plentiful support online and through our instructor. Our backgrounds with data structures and algorithms also helped.
- Additionally, we found each web development language to be relatively modern, simple, and familiar in syntax, further contributing to our success in this project.



