

112 TP3: Proposal

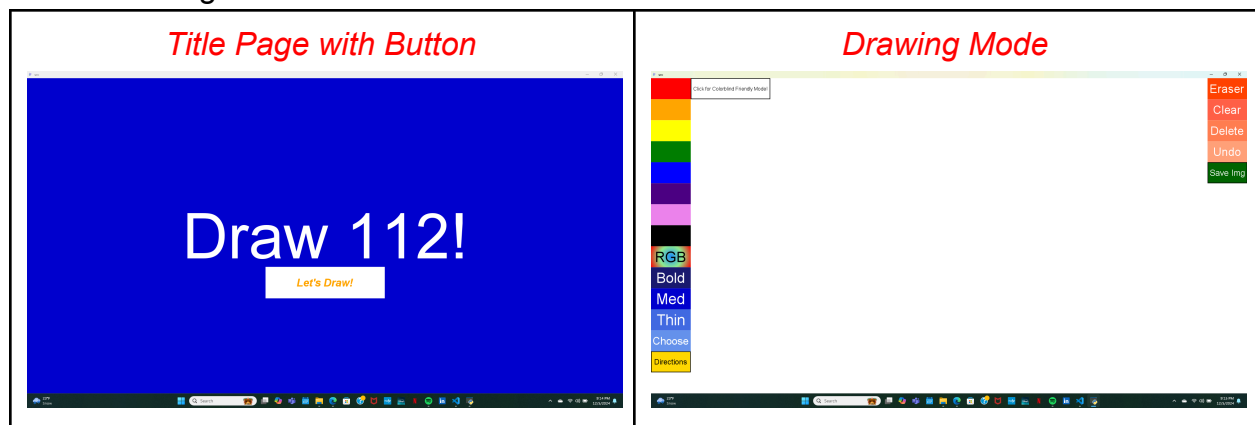
Project Title: Draw 112!

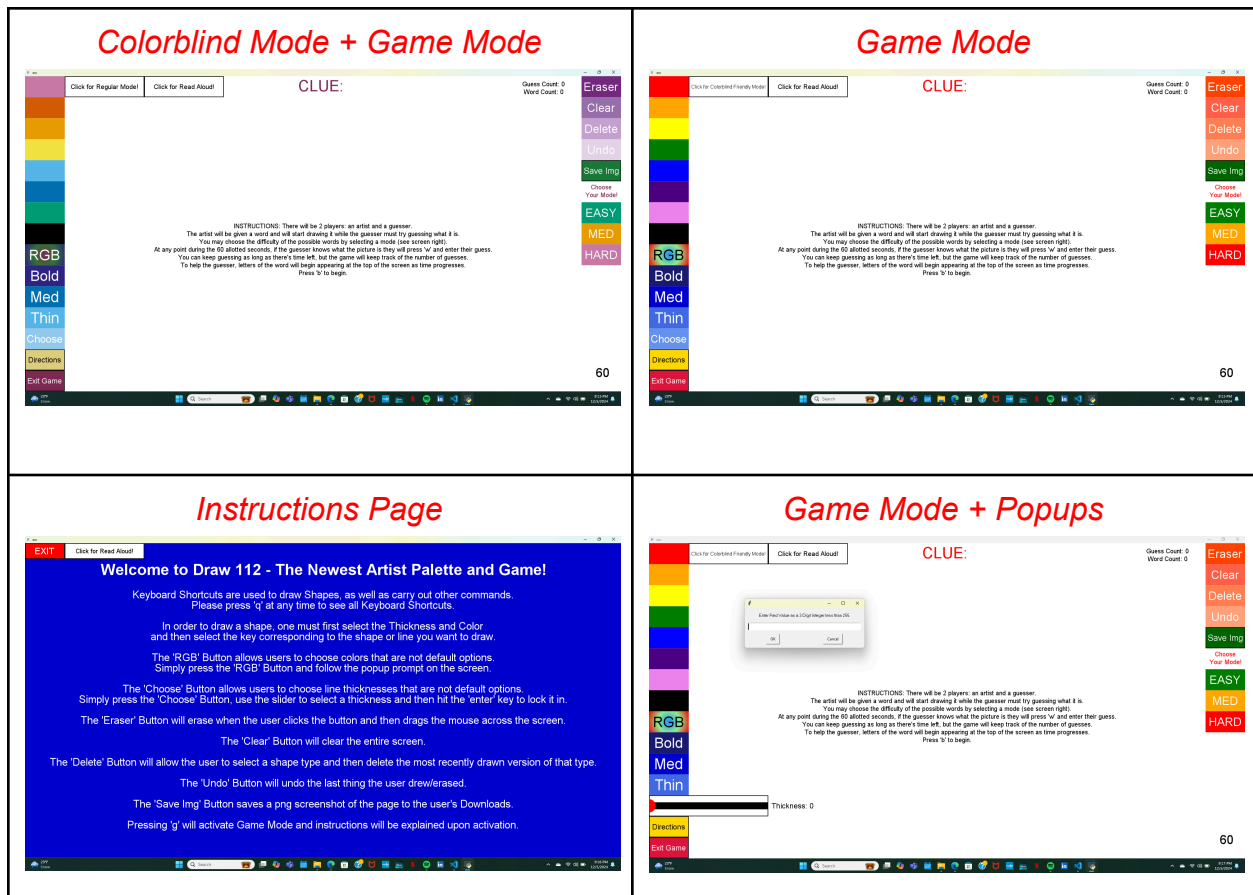
Project Description:

There are two sides to this amazing drawing app: an artist's palette and a game! In drawing mode, the artist can freely draw by choosing from various color options, line thicknesses, and shapes. The shapes are created with keyboard shortcuts - 'r' for rectangle, 'c' for circle, 'p' for regular polygon, 'l' for line, and 's' for scribble mode. The user can also choose a color themselves if they choose to - they do this by clicking the 'RGB' button and then following the prompts in the console that ask for the red, green, and blue values in 3-digit numbers. The 'bold' button yields a shape with thick lines, 'med' will give medium lines, and 'thin' will give thin lines. There's also a button to choose the thickness using a slider. You draw shapes/lines by clicking the color and thickness mode and then using the key shortcuts to activate a shape/line.

Pressing 'g' will switch to game mode! There will be a screen with basic instructions, and you will press 'b' to begin the game. The artist will be given a word after the guesser is told to look away by the screen prompt. The artist will then be given a chance to guess what the artist is drawing - when the guesser thinks they know the word, they can press 'w' on the keyboard to activate guess mode, stopping the artist from drawing and temporarily pausing the timer. The guesser can then go to the console and type their guess - if correct, they win. If wrong, they get another chance or can exit guess mode. The guess counter will increment for each guess, and the word counter will increment when the right word is guessed. If the right word is guessed, the option is given to continue into a new round while keeping the current guess count and word count or exit game mode altogether.

Colorblindness Mode (changes app color scheme to colorblind-friendly color) and Read Aloud (text to speech on instructions) contribute to the bandwidth of the app - they are for the social good!





Similar Projects (2-5):

MS Paint - [Draw, Create, and Edit with Paint | Microsoft Windows:](#)

- I like how this app allows a large range of color selection
- I want to implement the paint bucket
- I like the wide range of available shapes
- I want to add an instructions panel to make sure my users know what to do

2D Cad By Alisha Patel (Term Project Gallery) -

<https://www.youtube.com/watch?v=MrCzH1FQ6NY&feature=youtu.be>

- I like the thickness options for drawing
- I like the eraser and various color options
- I like the simple user interface, which reduces the cluttered feel

scribbl.io

[skribbl - Free Multiplayer Drawing & Guessing Game](#)

- The gamified version of my drawing app will emulate this game
- I like how one person draws and another person guesses what is being drawn

Version Control/Backup Plan:

I have uploaded my code as a zipped file to Google Drive, which makes it accessible on any computer or device.



Tech List: None.