artsy.io

• The overall idea for your project

• A website where multiple users can connect to and draw stuff on canvases in realtime

• The features you want to implement

- Drawing
 - Drawing will involve lines, squares, circles (can be expanded)
 - Can pick colors from a palette
- Ownership of canvas
 - Require a user to signup/login
 - Have 1 canvas per account that has saved state
 - Can spawn/move/clear canvas
 - Can allow/disallow others to draw on canvas
- 3D world
 - Simple 3D world where you can see players move around in real time and edit canvases in real time
 - Requires 1 camera per player
 - Requires 1 3D model (small robot?) per player
 - Requires player controls (move forward/back/up/down in floaty manner)
 - Perhaps a skybox for a nice background

• The technologies you think you'll need

- Express/passport for simple website login/signup
- Mongo for canvas state storage
- Three.js for 3D graphics

• A breakdown of features by milestone

- MS1: three.js basics
 - 3D world with camera controls
 - Spawning a canvas
 - Drawing lines on canvas
- MS2: express, passport, and mongo
 - Login/signup and ownership logic
 - Explore multiple users connecting in the world
 - Save state of canvas
- MS3: fine tuning
 - Model importing to show player in world
 - Add rest of drawing features
 - Add other drawing features