



Project Name: CYOUbism

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Submission Links: Website: https://s2250677.edinburgh.domains/DWDWebsite1/

Video: https://media.ed.ac.uk/media/CYOUbism%20Alpha%20Sub

mission/1 mlhnvxqs



DESIGN MOTIVATIONS

According to an article published by the MoMA, "Cubism was the most influential art movement of the 20th century" (link).

However, in comparison to other 20th century art movements like surrealism and post-impressionism, Cubism had much less of an impact in general pop culture. And while everyone knows Pablo Picasso, what about the thousands of other Cubist artists?

Currently, almost no websites exist solely for the purpose of teaching about and sharing appreciation for Cubism. And the ones that *do* are very information-heavy. This website thus aims to fill that void and bring attention to the styles and history of this underappreciated art form in a fun, interactive way. It also aims to build an online community for people to share some Cubist creations of their own, in the hopes that the users will come to see the beauty in this style.





METHODOLOGY

We used a few different tools in the brainstorming process, including SharePoint, Miro, and Teams. We had research folders and moodboards dedicated to compiling ideas, as well as a wireframe on Miro outlining some of the site's pages, color palette, and other elements.

We tried to draw inspiration from existing pages on the internet, especially in how museums layed out information. However, most museum pages had a very sterile look to them, and didn't have the same bright style we wanted. So we ended up looking for other forms of inspiration instead — independent galleries, cosmetic sites, previous DWD websites, etc. Finally, all code is backed up on *Github*.





METHODOLOGY

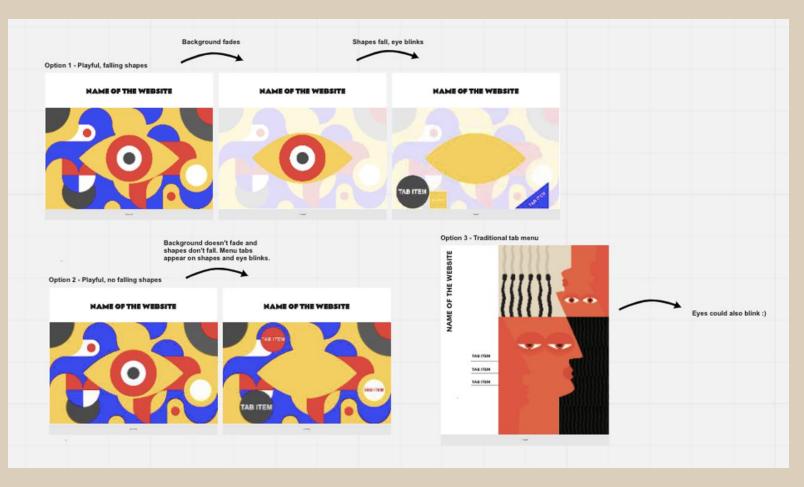


Figure 1: First mockup + brainstorming ideas





METHODOLOGY

Museum Sites	Other Sites
https://britishmuseum.withgoogle.com/	https://www.malikafavre.com/
https://artuk.org/	https://patchwork.stylehatch.co/
https://www.tate.org.uk/art/art-terms/c/cubism	https://modernart.net/artists/forrest-bess/cv
https://www.moma.org/learn/moma_learning/themes/cubism/	https://www.modernarthire.com/artists
https://www.guggenheim.org/artwork/movement/cubism	https://s2047075.edinburgh.domains/mall/
https://www.artsy.net/gene/cubism	https://s1897235.edinburgh.domains/beta/
Cubism-Specific Sites	Style Transfer
https://cubismsite.com/category/cubist-artists/	https://fast-style-transfer.spltech.co.uk/
	https://killscreen.com/previously/articles/web-app-picassofies- your-pictures-abstract-cubist-art/

Figure 2: Sites we looked at for inspiration





All aspects of our design and execution were reliant on two things:

- 1. We wanted our website to adhere to the Cubist style, so we adopted a sleek, modern look with bright colors and lots of 2D geometric shapes.
- 2. As our intended users are art lovers, curious students, and aspiring artists, we designed this site to be as usable and enjoyable as possible for all.

Instead of simply info-dumping onto the screen, we wanted our site to be more interactive. To that effect, we included two user-focused activities: an Algenerated Style Transfer tool, and a drag-and-drop Canvas tool. The former imports an existing *Tensorflow* model into the site, and the latter uses a custom HTML5 Konva canvas. Both are implemented with help methods to increase transparency and guide the user. We think that these features allows the user to engage with the styles and concepts of Cubism with a personalized touch, while still being immersive and fun.

In addition, we also have a section showcasing Cubist artwork and history with a gallery and short slideshow, but we did not want this to be the main focus of the site, as our main goal was to let people have hands-on engagement.





Currently, we have one database which stores artwork created by the user in the Canvas tool. The database has three fields, including the artist's name, the title of the piece, and the dataURL of the canvas image. This data is submitted via a form, and these creations will (eventually) be displayed on the site.

The site process flow and user experience design were done by Kate. The front page, animations, graphics, and logo were designed and adapted by Paulo. The code skeleton, style-transfer page, database management, and canvas tool were designed by Ciara.

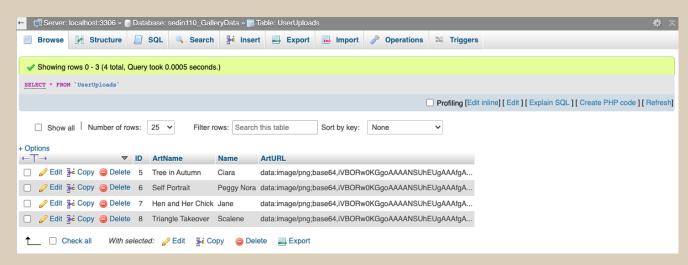








Figure 3: Style Transfer in action

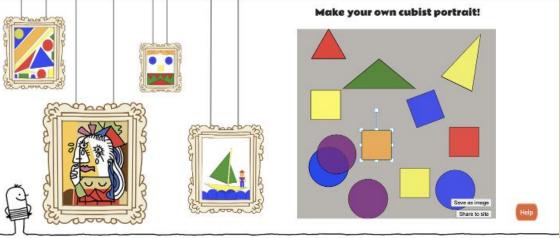


Figure 4: Canvas Tool in action













Figures 1-3: Development of logo ideas for the website

Figure 4: Logo chosen for the Alpha version of the website

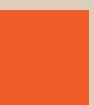




Color palette:



Hex: #EF4726 R 239 G 71 B 38



Hex: #F15B2A R 241 G 91 B 42



Hex: #302E2F R 48 G 46 B 47



Hex: #DBCEBA R 219 G 206 B 186

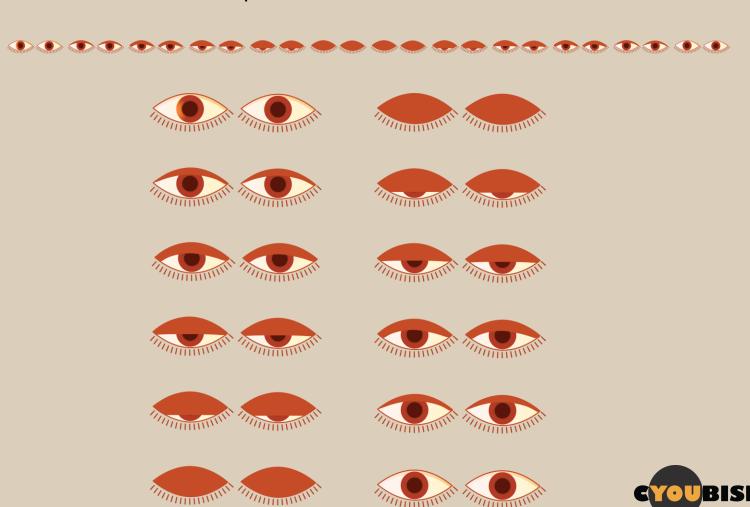


Hex: #EBA740 R 235 G 147 B 64





Eye Animation Frame Development





SPECIAL CONSIDERATIONS

- Please use Chrome or Safari to get the best experience with our site.
 The style-transfer tool is not compatible with Firefox.
- Please have your browser at full size (not full screen). Our website is not good at resizing content.
- If the Style Transfer Tool isn't working after 4 minutes, try clearing your browser cache, reloading the page, or using a different browser.





BETA DEVELOPMENTS

- 1. Refine existing designs, especially Style Transfer page and Community Page
- 2. Additional features and design ideas
 - a. Login information? So users can view their past creations easily
 - b. Sort gallery by features (Color? Artist nationality?) for easy navigation
 - c. Add indication that style transfer is running (loading bar?) to increase visibility of system status
- 3. Efficiency (potentially)
 - a. Our style transfer model loads very slowly. We can look into making this faster
- 4. Scalability (potentially)
 - a. Our website does not currently respond well to different browser sizes and mobile sites





AKNOWLEDGEMENTS

- Konva code examples, and documentation (link)
- Interactive Slideshow (link)
- Fast Style Transfer (for AI Style Transfer model) (link)
 - For converting Tensorflow to Tensorflow.js (<u>link</u>)
- ArtUK
 - o https://artuk.org/discover/artworks/hafen-la-ciotat-191538/view_as/grid/search/keyword:cubism-licence:1cc/page/1
 - o https://artuk.org/discover/artworks/still-life-205532/view_as/grid/search/keyword:cubism-licence:1cc/page/1
 - https://artuk.org/discover/artworks/the-gardener-vallier-le-jardinier-vallier-117722/view as/grid/search/licence:1cc--actor:cezanne-paul-18391906/page/1
- Met Museum
 - o https://www.metmuseum.org/art/collection/search/488486
 - o https://www.metmuseum.org/art/collection/search/485555?showOnly=openAccess&ft=cubism&offset=0&rpp=40&pos=8
- Wikimedia
 - o https://commons.wikimedia.org/wiki/File:Philip Absolon. Cassie Thinking About Cubism.jpg
 - o https://commons.wikimedia.org/wiki/File:Portrait of a German Officer, Marsden Hartley.jpg
 - o https://commons.wikimedia.org/wiki/File:Louis Marcoussis Composition cubiste au portrait 1926.jpg
 - o https://commons.wikimedia.org/wiki/File:%27Tapestries of Desire%27 150x130 cm, Oil on Belgian linen by Hennie Niemann jnr 2019,.jpg
 - https://commons.wikimedia.org/wiki/File:Roger-de-La-Fresnaye Sitting Man.jpg
 - o https://commons.wikimedia.org/wiki/File:Juan_Gris_- Portrait_of_Pablo_Picasso_- Google_Art_Project.jpg
 - o https://commons.wikimedia.org/wiki/File:Louis Marcoussis Composition cubiste au portrait 1926.jpg
- iStock Photo
 - o Board: https://www.istockphoto.com/collaboration/boards/7-mk1T0GrEOtsolTxAhTDA
- Help button (link)
- Popup form (link)
- Homepage animation (<u>link</u>)
- Isotope/Masonry code examples and documentation (link)
- Designers of the FFF-Simple Example—couldn't have done it without you!

