

Project 1: A Time Travelling Portal

OBJECTIVE: Using Artificial Intelligence as a jumping-off-point, we will design then refine (using Adobe Illustrator) to create an artistic time portal.

How is this relevant? By using AI as a tool rather than a solution, you are learning to apply your own creativity to generate a product using the design process. You will ultimately create a marketable product/prototype. This design brief can easily become a unique portfolio-worthy project, which can ultimately help you get an internship or job. So take the design process seriously!

MATERIALS NEEDED:

A clock kit (available on Amazon in multi packs). Order in groups to save \$.

3mm (thickness) colored **acrylic** sheets. Also a great deal on Amazon, or through Canal Street Plastics in NYC (see links in the Announcement section of Blackboard).

UV Resin Glue and light (available for sharing in small groups). I can provide an additional UV light.

Paint and/or vinyl sticker cutouts (optional)

AI Art Generator apps (many are available for your phone, and most are free or have a free trial period). The free AI apps do make you watch an ad.

Access to Adobe Illustrator

IMPORTANT NOTES:

We will be submitting digital files (Adobe Illustrator) to the SCAD DigiLab in Fahm Hall. Cutting is free, but you must supply your own 3mm **acrylic** sheets. The only plastic the DigiLab will cut with the laser is acrylic (You may also use ¼" luan plywood, I can assist you with sourcing this).

Order your supplies ASAP.

I am available T/Th/F for digital tutoring and help before class, or by appointment. If this process is challenging for you, let's meet in the computer lab and figure it out together.

STEP 1: Create a list of words to use in a prompt. More specific is better!!! Once you feed the words into the AI Art Generator app of your choice, you can fine tune the image or regenerate the image. You might even add or

delete certain words so the art generator can produce something you like even more. Remember to take a screenshot of the images you like. Screenshots on a phone are free... take many!!!

EXAMPLE: "Close up iris in an eyeball with large pupil in the style of a linoleum block print, all inside a circle."
(Notice the number of descriptors, the idea of a circular yet radial form, and a specific desired style is given).

Here are a few more examples:



Style:

No Style

Prompt:

planets in a bird nest in the style of Kanagawa wave



Style:

No Style

Prompt:

100 butterflies landing on a circular target in a surreal fantasy land



Style:

No Style

Prompt:

100 butterflies landing on a circular target in a surreal fantasy land



Style:

No Style

Prompt:

planets in a bird nest in the style of Kanagawa wave

Fantastic words to include in your AI art generator prompt:

Aesthetic	Melodrama	Font	Color	Plywood
Angular	Merz	Foreground	Color Field paintings	Pointillism
Appropriation	Metaphysical	Form	Column	Polyethylene
Architecture	Minimalism	Formal	Combine	Portrait
Artifice	Mixed media	Found objects	Commission	Pose
Automatism	Model	Futurism	Complementary colors	Positive
Avant-garde	Modern	Gelatin silver print	Composition	Post-Impressionism
Background	Monochrome	Genre	Concentric	Postmodernism
Ball Bearing	Montage	Geometric	Conceptual art	Praxinoscope
Baroque	Mood	Gesture	Construct	Primary color
Batik	Motif	Gouache	Constructivism	Prime
Bauhaus	Multiple	Graphic	Contour	Primitive Art
Ben-Day dots	Mural	Graffiti	Cor-Ten steel	Print
Biomorphic	Muse	Hardboard	Costume	Profile
Black Maria	Narrative	Harlem Renaissance	Cropping	Prop
Brocade	Photo Negative	Hieroglyphics	Cubism	Propaganda
Brushwork	Neo-Impressionism	Horizon line	Cultural icon	Proportion
Built Environment	Neoclassical	Hue	Daguerreotype	Prototype
Byzantine Empire	Obelisk	Iconic	De Stijl (The Style)	PVC
Calligraphy	Old Master	Iconography	Decorative Arts	Rayograph
Caricature	Opaque	Idol	Design brief	Readymade
Cartes-de-visite	Organic	Impasto	Designer	Relics
Ceramics	Ornamentation	Impressionism	Die Brücke (the Bridge)	Renaissance
Chine collé	Paint	Improvisation	Diptych	Rendering
Choreography	Palette	In situ	Direct Cinema	Replica
Chromogenic color print	Palette knife	Inclined plane	Direct positive	Representation
Cinématographe	Panel	Industrial design	Documentary film	Rococo
Cinematographer	Panning	Information Age	Draftsman	Satire
City planner	Panorama	Installation	Drawing	Scale
Cityscape	Papier-collé	Institutional critique	Drypoint	Scene
Classicism	Papier-mâché	Intaglio	Ductile	School of Paris
Collage	Pastel	Interaction Design	Earthwork	Sculpture
Surreal	Pattern	Interior Design	École des Beaux-Arts	Secondary color
Cyberpunk style	Performance art	International Style	Elevation	Self-portrait
Steampunk Style	Photogram	Intertitle	Embroidery	Set-dresser
in the style of <u>artist</u>	Photograph	Jazz Age	Enlargement	Setting
Circular	Photogravure	Juxtaposition	Ephemera	Shade
Geometric	Photojournalism	Kinetic sculpture	Etching	Shape
hexagonal	Photomontage	Kinograph	Expression	Short
freeform fluids	Photostat	Kinetoscope	Expressionism	Shutter
chaos	Pictograph	Lacquer	Exquisite Corpse	Site-specific
swirling	Pictorialism	Landscape	Facade	Solvent
planetary	Picture Plane	Line	Fauvism	Sound effects
orbital	Pigment	Lithography	Feminist art	Sound-on-disc
cosmos	Plan	Magic lantern	Figurative	Sound-on-film
botanical vines	Plane	Malleable	Figure	Special effect
leaf arrangement	Plasticizer	Mandala	Film	Stain
bird nest	Plate	Manifesto	X-Ray	Stencil
eyeball iris	Pliable	Material	Abstract Expressionism	Street photography
fingerprint		Medium	Abstraction	Strobe
hamster wheel			Academic	Style
ocean wave in the style of kanagawa			Action painting	Stylized
cloudscape inside a sphere				Watercolor
butterflies surrounding a target				

STEP 2: Get Creative!!!!

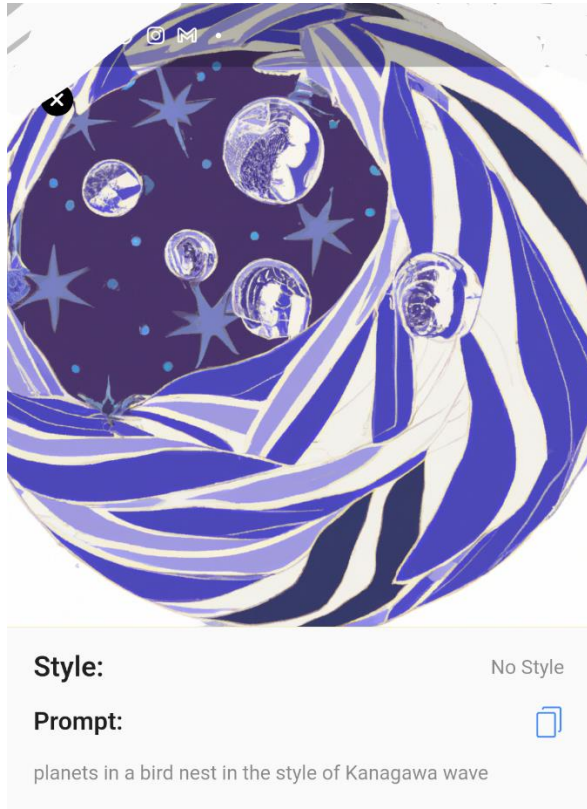
Now it's your JOB to use your creativity... you will need to interpret/convert your AI image into a 3+ layer design. Get inspired! What sections do you like, what sections do you wish to omit?

The goal is to BE INSPIRED by your AI image, NOT to duplicate it. This gives you creative freedom. We are using the AI image as a "jumping-off point"... so release yourself from the pressures of having to exactly duplicate the image you have created. That is not necessary, and not preferred.

What you SHOULD do: Figure out what sections you like. This is the Design Principle called Economy. Economy means to only keep what you need, and get rid of the rest.

Here is my example version of that process...

I liked this AI image the best:



Now (using Adobe Illustrator) I sketched the parts I definitely wanted to keep/embrace...



There are many ways you can get to this stage:

- 1- Adobe Illustrator Live Trace**
- 2- Adobe Illustrator Pen Tool**
- 3- ProCreate**
- 4- Photoshop**
- 5- By HAND!!!!**

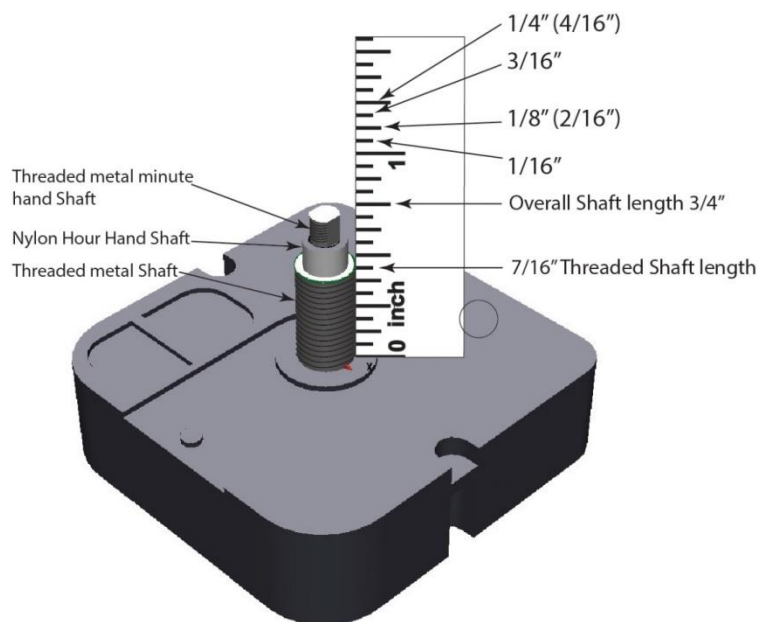
You are not limited to JUST one way. While sketches are amazing (and will be required for certain phases of our projects in this class), eventually you will need to digitize your ideas via Adobe Illustrator. The SCAD DigiLab has specific file requirements. Ultimately, your adjustments can be made by hand (using paper) and it might save you time/money as you progress towards your final digital design.

Once you have your design planned, figure out if you need to move the parts around so that you can get a better use of your plastic. In Industrial Design, it is important to arrange garments/patterns so that the best use of material is found. This is also important with jewelry, fashion, furniture, architectural layouts, costume planning, and more.

Your layout may be determined by the shapes needed, but it's also possible that you need a specific layout due to the position of the holes being cut (designing for the negative space rather than the positive space).

Once you have a good idea of your file, it's time to refine your layers. Many people need to see the color options available to them so that they can progress towards a final design idea. If that's the case for you, be sure to at least have several colors of acrylic sheets on hand. You might decide to order a multi-pack online with a friend so you all have many colors to choose from.

You will also need to plan for the size of the clock kit. These little kits are nearly identical. The threaded shaft that your acrylic needs to fit over is a diameter measurement. Refer to your exact kit to ensure you have made appropriate plans in Adobe Illustrator, you can create an exact circle that is any dimension. I suggest creating one that is barely larger than your kit's diameter". I will use $17/32$ " for my example. The rest of the dimensions listed online are as follows:



So, to recap the initial goals:

- 1- Order materials
- 2- Download any AI app and start figuring out a prompt
- 3- Take screenshots of your best prompts and see if you can figure out how to translate that idea into 2-4 layers of color/acrylic.
- 4- Make 10+ thumbnails for next class

STEP 3: Take a photo of your favorite Thumbnail sketch.

After taking that photo, email it to yourself. Open the email and download the image to the computer you're working on.

Open Adobe Illustrator. Create a new file. The size will be determined using the plastic dimensions you have ordered. This will allow you to design within that size constraint. You can always Edit the Artboards after you create the file (changing the dimensions later on).

File > Place > Download (select your image from the downloaded files).

Once your image is open, select the image using the top arrow in your tool bar (Selection Tool).

Now go to the top menu bar.

Object > Image Trace > Make and Expand

This will allow you to have Illustrator trace around the image you have provided. You will need to go back with your Selection Tool or Direct Selection Tool (right below it) and make the inside of the shapes no-fill (transparent), and keep the outlines black.

Edit as necessary, so that you create a Time Telling Device that matches your thumbnail sketch plan. Are there some areas of this design that need to be a different color of acrylic? You'll need to plan for a different file submission for each acrylic color you choose. This means making a DIFFERENT LAYER in your Adobe Illustrator file.

You might make many layers, so you can lock/unlock, or make the layers visible or invisible. You might also enjoy the idea of applying paint to the acrylic, or sanding the acrylic surface so you can get a cloudy effect (post-processing is easy and fast... these goals can be achieved after the parts are cut by the laser cutter).

FOR A FULL TUTORIAL, see these recorded Zoom links in Blackboard (in the Project 1 folder).

<https://vimeo.com/1069417629/8290d0b6c7?share=copy>

<https://vimeo.com/1070876778/e319a215d3>

These tutorial videos help explain how to go from the planning to the execution/construction phase. In class, I will demonstrate how to adhere the clock parts using UV Resin glue, making sure craftsmanship is a top priority.

Project Due Date:

Both the digital presentation and physical model are due CLASS #7.

This project will count as 20% of your final grade.

Here is an example of the same clock design, in 3 different color ways:



GRADING OPPORTUNITIES FOR THIS ASSIGNMENT:

Points possible	Category
20	Create the AI Image using text prompts
20	Convert AI Image to Adobe Illustrator
10	Submit the correct file format to DigiLab
10	Parts successfully cut out of acrylic (you present a pile of parts at critique)
10	Show us the process images (PDF or PowerPoint): writing prompt, AI image, photo of laser file, photo of pile of parts, final image of fully assembled clock)
10	Craftsmanship and clean aesthetic
10	Unique and original design with clock motor in place and functional.
10	Two or more colors of acrylic used, and layered
+2	Slot joinery used successfully

102 POINTS POSSIBLE