

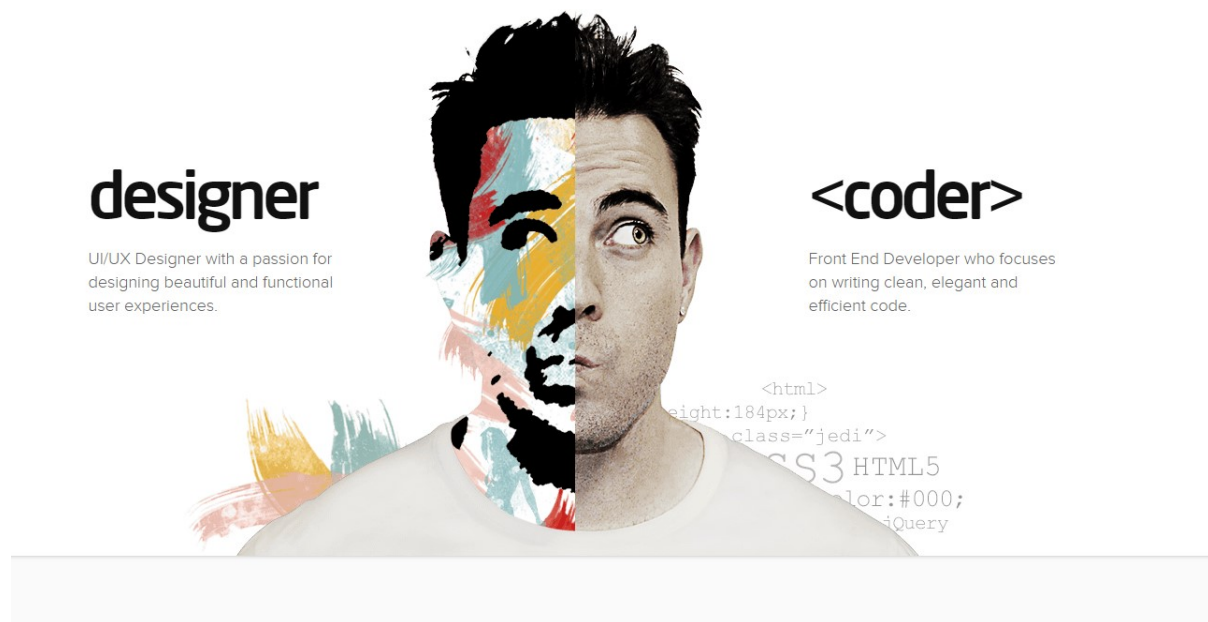
# 11055 – Programming for Design Assessment 1 (Documentation)

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## Programming Goals

Create a visual self-portrait using p5's JavaScript library.

I was inspired by this self portrait of Adham Dannaway's on his website. I wanted to achieve an abstract and literal self-portrait for my own image.

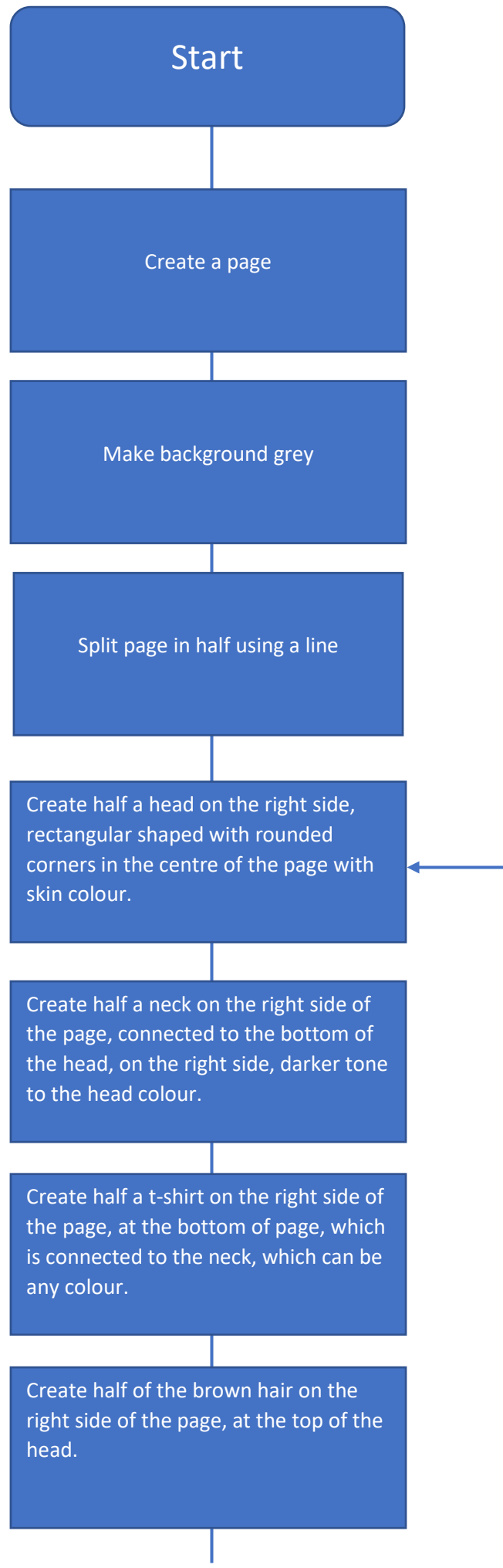


(Adham Dannaway, n.d.)

## I broke this down into 2 goals

1. Create literal half in colour
2. Create abstract version in black and white, with some elements using abstract colours
3. Interactive elements, such as the eye following the pupil and the tongue poking out when the mouse is clicked

## Flow Chart



Create one eyeball on the right side of the page, below the hair about 2/3rds on the head.

Make the pupil follow the users mouse.

Create half of the nose on the right side of the page, near centre of the page below the eye about centre of the head.

Create half of the mouth below the nose, on the right side of the page, smiling :), about the 1/3rds position on the head.

Create half a head on the left side, rectangular shaped with rounded corners in the centre of the page using a grey colour to make it look black and white.

Create half a neck on the left side of the page, connected to the bottom of the head, in a darker grey colour.

Create half a t-shirt on the left side of the page, at the bottom of page, which is connected to the neck, in a grey colour.

Create half of the hair on the left side of the page, at the top of the head in a grey colour.

Create one eyeball on the left side of the page, below the hair about 2/3rds on the head this would be using a black and white colour scheme.

Create half of the nose on the left side of the page, near centre of the page below the eye about centre of the head this would be using a black and white colour scheme.

Create half of the mouth below the nose, on the left side of the page, smiling :), about the 1/3rds position on the head this would be using a black and white colour scheme.

If user  
clicks  
mouse

F

T

Create a small semicircle, underneath the mouse on the left side. Use a black stroke and dark fill colour.

## Pseudo Code

### START

Draw line vertically down centre of page

Make background very light grey

### DO

#### (RIGHT SIDE)

Create a rectangle from the centre line to the right end of the canvas. This rectangle represents the background of the right side.

Draw rectangular shaped with rounded corners on right side of line. Use a light skin colour. Make sure the rounded corners are on the upper right and lower right of this rectangle.

Draw a trapezoid shape underneath this shape drawn above connecting onto it. This trapezoid has a flat line along the centre line and has an angle sloping upwards on the right side. Make this shape as long as the shape drawn above starting from the centre line. Use the same colour as drawn above. This shape will represent the chin.

Draw line 2/3rds down for mouth curving up slightly towards the right indicating a smile. This line starts from the centre and only is half of the smile.

Draw line vertically around the centre of head this will be used to represent the nose. This part of the nose is on the right side of the face and must be drawn on the right side. Draw this line in black colour.

Draw a curved line starting from the middle and ending on the right side of the line. This curved line is drawn directly below the line above. This line connecting onto the line above will give the impression of the nose. Draw this line in black colour.

Draw circular shape for the eye next to the nose. Draw this about 2/3rds within the image. Make the circular shape white. This circular shape must be on the right side of the centre line.

Draw a circle within this shape drawn above for the pupil, this image is slightly less in diameter than the circular shape above. Make this circle black.

When the user moves the mouse along the x-axis, change the position of the pupil but keep it contained within the eye area drawn before. Also change the colour when moved towards the right of the x-axis.

Draw a small semicircle next to the eye, draw this semicircle on the right side of the head. Use the same skin colour as previously done for the head. This is to represent the ear.

Draw a smaller semicircle using the same shape as before. Draw this semicircle within the previous semicircle and make the colour black.

Draw a rectangle on the right side of the centre line. This rectangle is underneath the rectangle before that represents the chin. Make the colour of this rectangle a darker shade of the head colour used before.

Create a rectangle at the bottom of the page on the right side of the line. Connect this rectangle to the neck drawn above. This rectangle is to represent the t shirt. Make the colour green.

Draw a triangle on the right of the rectangle drawn above. This triangle will be used to represent the arm of the person. Use the same colour as the shape above. Give the triangle a stroke of a darker shade of green to represent shadows. This triangle connects to the right end of the page.

Draw ellipse shape above the eye on the right side. Place this shape on top of the head. Use a brown colour to represent the hair.

Add details to the hair such as strokes and triangles to give more details to make it look like hair.

#### (LEFT SIDE)

Draw rectangular shaped with rounded corners on left side of line. Use a light grey colour. Make sure the rounded corners are on the upper left and lower left of this rectangle.

Draw a trapezoid shape underneath this shape drawn above connecting onto it. This trapezoid has a flat line along the centre line and has an angle sloping upwards on the left side. Make this shape as long as the shape drawn above starting from the centre line. Use the same grey colour as used above. This shape will represent the chin.

Draw line 2/3rds down for mouth curving up slightly towards the left indicating a smile. This line starts from the centre and only is half of the smile.

Draw line vertically around the centre of head this will be used to represent the nose. This part of the nose is on the left side of the face and must be drawn on the left side. Draw this line in black colour.

Draw a curved line starting from the middle and ending on the left side of the centre line. This curved line is drawn directly below the line drawn above. This line connecting onto the line above will give the impression of the nose. Draw this line in black colour.

Draw circular shape for the eye next to the nose. Draw this about 2/3rds within the image. Make the circular shape white. This circular shape must be on the left side of the centre line.

Draw a circle within this shape drawn above for the pupil, this image is slightly less in diameter than the circular shape above. Make this circle black.

Draw a small semicircle next to the eye, draw this semicircle on the left side of the head. Use the same grey colour used before for the head. This is to represent the ear.

Draw a smaller semicircle using the same shape as before. Draw this semicircle within the previous semicircle and make the colour black.

Draw a rectangle on the left side of the centre line. This rectangle is underneath the rectangle before that represents the chin. Make the colour of this rectangle a darker grey than what was used for the head before.

Create a rectangle at the bottom of the page on the left side of the line. Connect this rectangle to the neck drawn above. This rectangle is to represent the t shirt. Make the colour a darker grey than the colour used for the neck.

Draw a triangle on the left of the rectangle drawn above. This triangle will be used to represent the arm of the person. Use the same colour as the shape above. Give the triangle a stroke of a darker shade of grey to represent shadows. This triangle connects to the left end of the page.

Draw ellipse shape above the eye on the left side. Place this shape on top of the head. Use dark grey colour to represent the hair.

Add details to the hair such as strokes and triangles to give more details to make it look like hair.

IF mouse is pressed

THEN create new semicircular shape on left side of the page, underneath the mouth. Make this grey shade darker than the head grey. Give this shape an outline stroke with a very dark grey outline.

ELSE

Do nothing

LOOP

## **Final Reflection/Evaluation**

In the final piece I wasn't able to produce the portrait that I wanted to create originally. My original portrait would have consisted of the left side being made up of small circles, which would have given the impression of the left side of the face. I was also going to use abstract fill colours for some of these circles to give it an abstract look. This however did not work out in the final design.

Some changes I had to make whilst creating the portrait was to change the abstract side of the face to being made up of whole shapes instead of being made up of lots of circles. I still wanted to incorporate a distinction between the left and right side, so I made the left side of the face in black and white.

Another issue that arose due to the issue mentioned above was that I now couldn't complete the left side of the face using abstract colours similar to Adham Dannaway's portrait on page 1. I tried to create a paintbrush effect, but it didn't look very effective and didn't work well.

However, even though I wasn't able to achieve my original design, I think the final portrait works well and still achieves its original purpose.

## **References**

*Adham Dannaway*. [Image]. Retrieved from <http://www.adhamdannaway.com/>