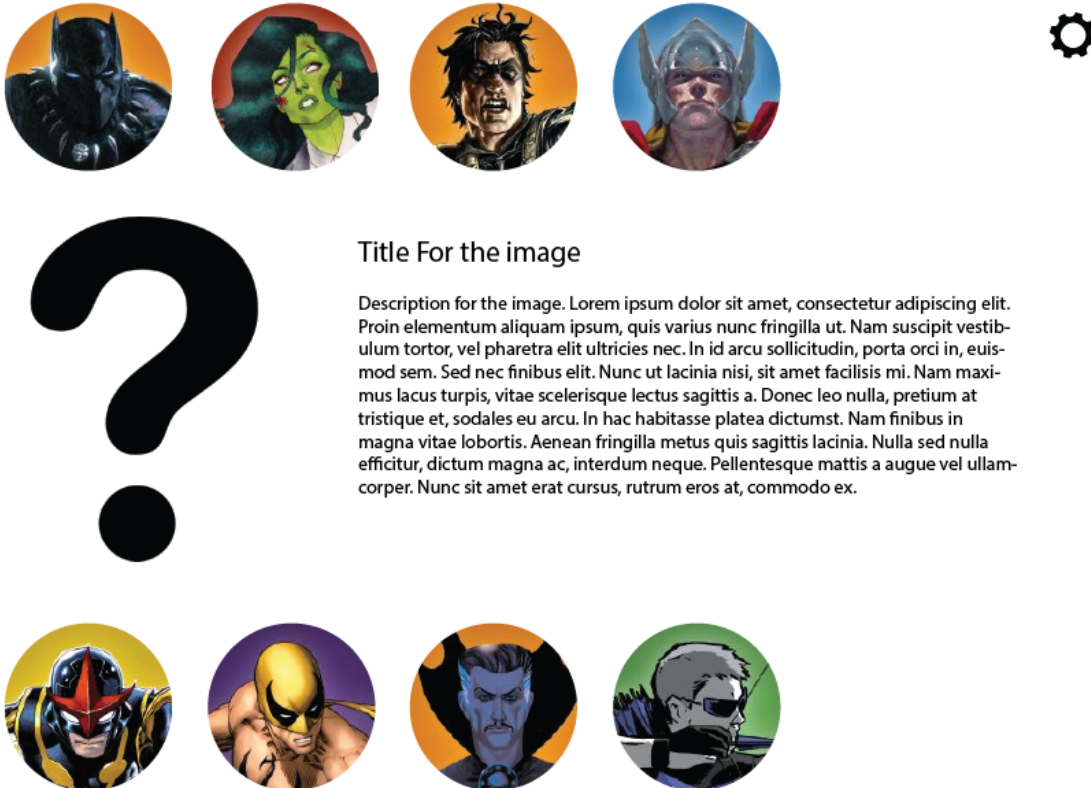


## Midterm Exam

NOTE: The marks breakdowns are not final. It COULD be scaled based on the class progress.

### Part 1: HTML/CSS Layout (see layout pdf)



Create the above layout with the following specs

- There are 3 sections, top, mid and bottom
- The top and bottom section has 4 images with circular border radius
- The images should have some scalable spacing between each other
- The top and bottom section takes up 25% of the viewport
- The height of the images is a scalable percentage of the top/bottom div
- The images should keep their ratio and not stretch or compress
- The middle section has a div on the left side with a background image of q.jpg
- The middle section has 2 divs after the background image div, one for the title and another one for the description.
- The middle section takes up 50% of the viewport
- The divs in the middle are all scalable percentages of the mid div
- On the top right corner is a gear png icon, and this icon will be fixed on the top right forever.
- The top and right values are at a distance of 10 pixels.
- The icon is not scalable and will stay as the same size no matter the resolution

## MARKS BREAKDOWN /10

- 3 different sections
- Accurate dimensions for top, mid, and bottom
- 4 scalable images at the top
- 4 scalable images at the bottom
- 3 scalable divs in the middle
- Gear icon at the top right using hard values
- Accurate dimensions for gear styles
- Scalable spacing between the images at the top and bottom
- Circular border radius for the images
- Accurate mid section representation

### Part 2: Javascript I (see pdf)



#### Black Panther

The Black Panther (T'Challa) is a fictional superhero appearing in American comic books published by Marvel Comics. Created by writer-editor Stan Lee and penciller and co-plotter Jack Kirby, he first appeared in *Fantastic Four* #52 (July 1966). He is the first black superhero in mainstream American comics, debuting years before such early African-American superheroes as Marvel Comics' the Falcon (1969) and Luke Cage (1972), and DC Comics' Green Lantern John Stewart (1971), Tyroc (1976), and Black Lightning (1977). The character is usually depicted as the king and protector of Wakanda, a fictional African nation. Chadwick Boseman portrays the Black Panther in *Captain America: Civil War* (2016) and is set to return in *Black Panther* (2018), both set in the Marvel Cinematic Universe.



### Upon interaction your application will do the following

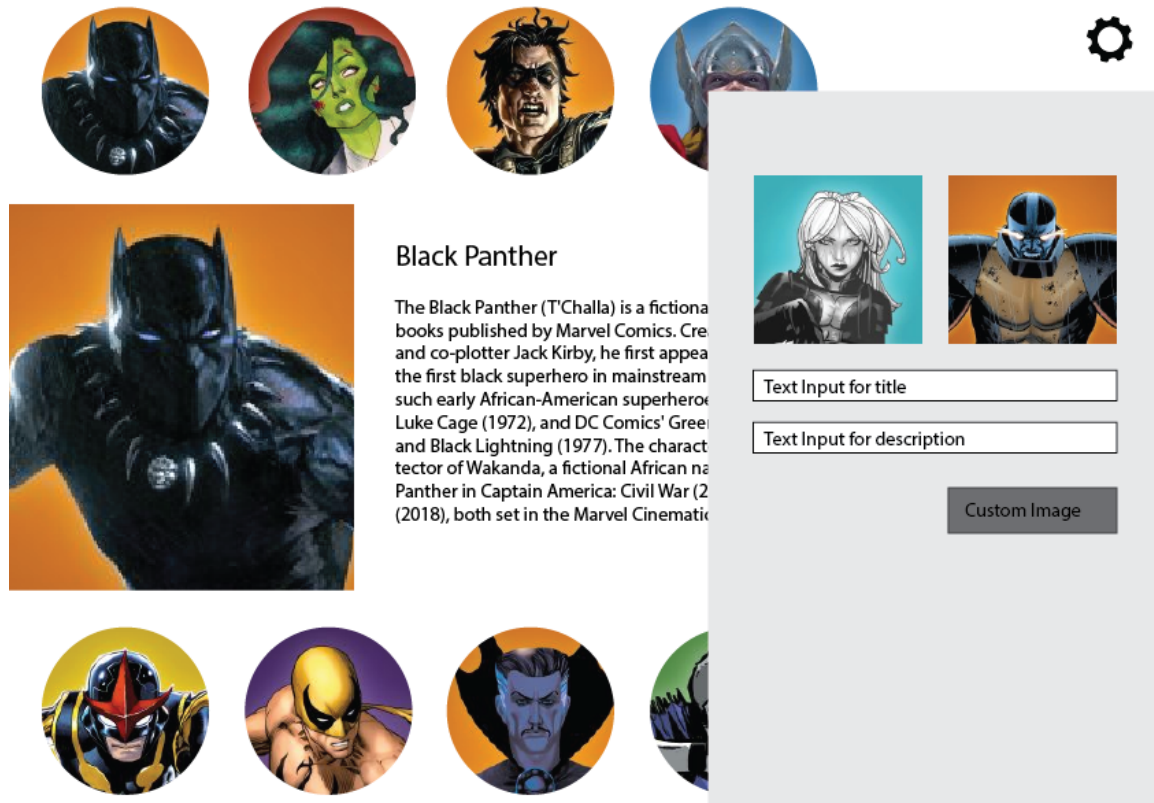
- When an image at the top or bottom is clicked the middle section changes
- The div with the background image will change its link to the image clicked on
- The background size will be covered and the position will be top center
- The title and description div will change to the title and description text based on the pdf provided.

### MARKS BREAKDOWN /4

- Image onclick changes background of mid div
- Image onclick changes the title and description
- Accurate title and description used for each character
- Accurate background image styles

### Part 3: Features

Have a div with the following layout ready



When the gear icon is clicked on

- Make it so that this div only comes out when the gear icon is clicked on
- You can either choose to do display none or have a negative right value
- The div has the 2 remaining character images, 2 text inputs and 1 button.

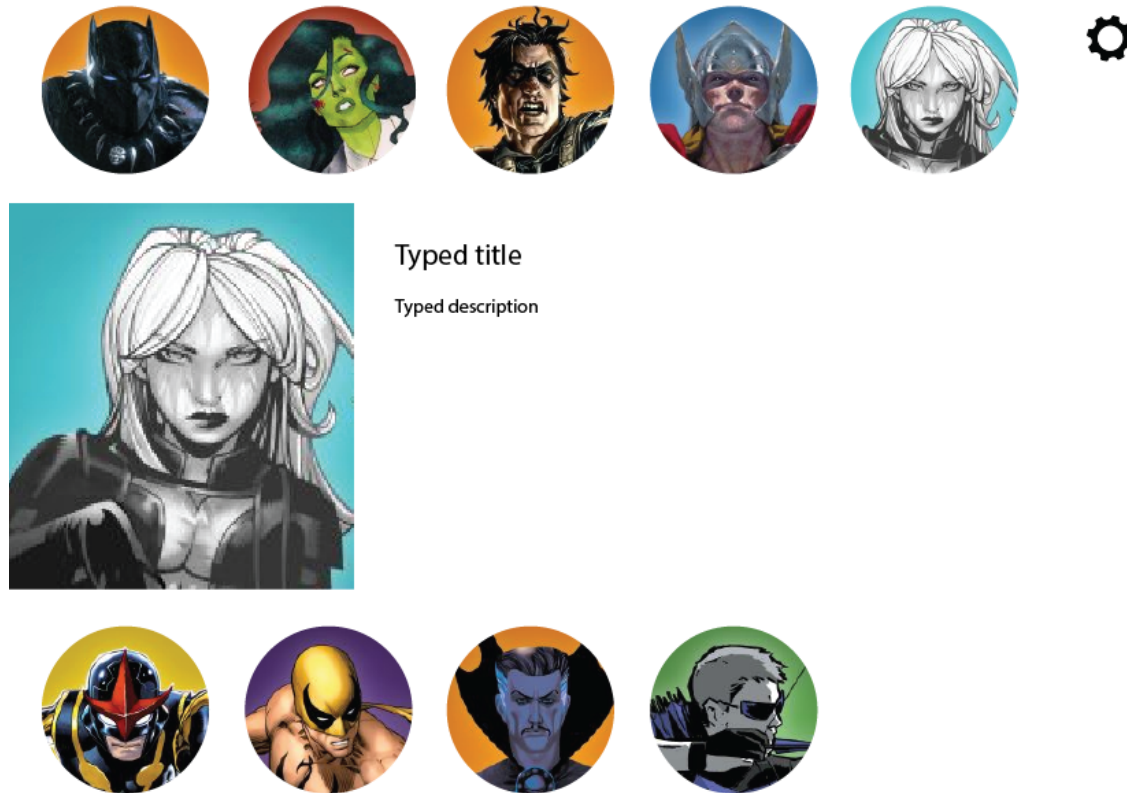
### MARKS BREAKDOWN /2

- Accurate div layout created
- Gear onclick displays the div

### Part 4: Javascript 2

Based on the above, you can type on both text inputs and click on one of the images.

When one of the images is clicked on, it creates a new character image icon on top or bottom. The menu then goes away. The mid section reflects on the image you clicked on and the text you typed





#### MARKS BREAKDOWN /3


- New character icon created on top/bottom div (not hidden, then shown, but element created)
- The menu leaves the screen
- The mid section contains data you typed in the div

#### Part 5: The Final Features

You'll notice that there's a custom image button to click on. When that button is clicked on, a new text input and button will show up. How you want to make that happen is up to you.




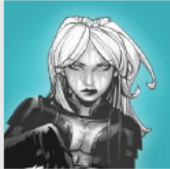





### Black Panther

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- The text input is for the user to type in a url link for a custom image.
- When the Add Custom button is clicked on, just like part 4, the image will be added but with a custom image based on the text input
- The character icon for this section will always be at the bottom
- Also all the added new image icons are clickable just like the previous 8. The interaction works exactly the same.

#### MARKS BREAKDOWN /3

- Custom Image button gives new text input and button
- New Add Custom button creates image icons and mid section like part 4, but with a custom image based on the text input
- New image icons are all clickable and the interaction is the same.

#### TOTAL /22

Submit your html/js/css files into the dropbox.