**Responsive Art Gallery**

**Objective:**

Develop a responsive webpage representing an art gallery using HTML5 and CSS3.

**Step-by-Step Instructions:**

HTML:

1. **Setup Your HTML Structure:** Begin by setting up your HTML document structure. This includes your **<!DOCTYPE html>**, **<html>**, **<head>**, and **<body>** tags.
2. **Meta Tag:** Inside your **<head>** tag, insert the viewport meta tag with **width=device-width, initial-scale=1**. This is crucial for making your webpage responsive.
3. **Link CSS:** Still within your **<head>** tag, link your CSS file using the **<link>** tag.
4. **Create a Header:** Within the **<body>** tag, create a **<header>** element. This section is often used to house the webpage's title or logo.
5. **Add a Title:** Inside the **<header>** tag, add a **<h1>** tag. This will be the title of your art gallery.
6. **Add Main Section:** After the **<header>**, add a **<main>** element. This is where the main content of the webpage will be located.
7. **Add a Gallery Section:** Within the **<main>** tag, create a **<section>** with the class name "gallery". This will serve as your container for the gallery.
8. **Add Art Pieces:** Inside the gallery section, create six **<article>** elements with the class name "photo-card". These represent each piece of artwork.
9. **Add Art Details:** Within each "photo-card", add a **<h2>** tag for the art title, an **<img>** tag for the art image, a **<p>** tag with class "description" for the art description, and another **<p>** tag with class "date" for the art's creation date.

CSS:

1. **Style the Body:**
   * Target the **body** element.
   * Set the **background-color** property to **#f0f0f0**.
   * Set the **font-family** property to **"Roboto", sans-serif**.
2. **Style the Title:**
   * Target the **h1** element inside **header**.
   * Set the **text-align** property to **center**.
   * Set the **padding** property to **20px**.
   * Set the **background-color** property to **#333** and **color** property to **#fff**.
   * Set the **font-size** property to **2em** and **font-family** property to **"Roboto", sans-serif**.
   * Set the **letter-spacing** property to **2px** and **text-transform** property to **uppercase**.
3. **Style the Gallery:**
   * Target the **gallery** class.
   * Set the **max-width** property to **800px**, **margin** property to **0 auto**, **padding** property to **1rem**, and **border** property to **2px solid pink**.
4. **Style the Art Cards:**
   * Target the **photo-card** class.
   * Set the **background-color** property to **#fff**, **border** property to **1px solid #ddd**, **padding** property to **1rem**, and **margin-bottom** property to **1rem**.
5. **Style Images:**
   * Target the **img** element inside **photo-card** class.
   * Set the **max-width** property to **100%** and **height** property to **auto**.
6. **Implement Flexbox:**
   * Still targeting the **gallery** class.
   * Set the **display** property to **flex**, **flex-wrap** property to **wrap**, **gap** property to **1rem**, and **justify-content** property to **center**.
7. **Style the Art Cards Further:**
   * Still targeting the **photo-card** class.
   * Set the **flex** property to **1 0 200px** (flex-grow, flex-shrink, and flex-basis respectively), **text-align** property to **center**, and **transition** property to **transform 0.3s ease-in-out**.
8. **Create a Hover Effect:**
   * Target the **photo-card** class with the **:hover** pseudo-class.
   * Set the **transform** property to **scale(1.05)**.
9. **Style the Art Titles:**
   * Target the **h2** element inside **photo-card** class.
   * Set the **margin-bottom** property to **0.5rem**, **color** property to **#333**, and **font-size** property to **1.2rem**.
10. **Style the Art Descriptions:**
    * Target the **description** class.
    * Set the **font-size** property to **1rem**, **color** property to **#666**, and **margin** property to **0.5rem 0**.
11. **Style the Art Dates:**
    * Target the **date** class.
    * Set the **font-size** property to **0.8rem** and **color** property to **#999**.

After you're done writing your HTML and CSS, it's essential to validate your code. This ensures it's written correctly, following the web standards, and will work on all browsers as expected. Here are links to validate your HTML and CSS:

* [Validate your HTML](https://validator.w3.org/)
* [Validate your CSS](https://jigsaw.w3.org/css-validator/)

Once you've confirmed that your code is valid, compare your gallery with my example to ensure everything is working as expected:

* [View my example](https://6499af78861a9b063b21b9dc--elaborate-entremet-285d2b.netlify.app/)

**Submission:**

After completing the assignment, submit the HTML file, CSS file, and any images used for the project.