1. We will use this HTML:

<!DOCTYPE html>

<html>

<head>

<title>Flexbox Layout with Responsive Order</title>

<link rel="stylesheet" href="style.css">

</head>

<body>

<h1>Flexbox Layout with Responsive Order</h1>

<h2>Order (Changes on Resize)</h2>

<div>

<div>Item 1: Content about the first item.</div>

<div>Item 2: Content about the second item.</div>

</div>

<h2>Row and Column</h2>

<div>

<div>Item 1: Row item 1</div>

<div>Item 2: Row item 2</div>

<div>Item 3: Row item 3</div>

</div>

<div>

<div>Item 1: Column item 1</div>

<div>Item 2: Column item 2</div>

<div>Item 3: Column item 3</div>

</div>

<h2>Shrink and Grow</h2>

<div>

<div>Shrink: This item will shrink to fit the available space.</div>

<div>Grow: This item will grow to fill the available space.</div>

</div>

<h2>Image Gallery</h2>

<div>

<div><img src="https://picsum.photos/100" alt="Image 1"></div>

<div><img src="https://picsum.photos/100" alt="Image 2"></div>

<div><img src="https://picsum.photos/100" alt="Image 3"></div>

<div><img src="https://picsum.photos/100" alt="Image 4"></div>

</div>

</body>

</html>

1. Add classes to the HTML:

* **container:** This class is applied to the main divs that will hold flexbox items. It will be used to define the overall flexbox behavior for these containers.
* **item:** This class is applied to the individual elements within the flex containers. It will define the basic styling for these items.
* **row:** This class is applied to the div that should display its children in a row.
* **column:** This class is applied to the div that should display its children in a column.
* **shrink:** This class is applied to the item that should shrink more readily when space is limited.
* **grow:** This class is applied to the item that should grow more readily when space is available.
* **image-label:** This class is applied to the div that contains the "Image Gallery" heading.
* **image-gallery:** This class is applied to the div that holds the image items.
* **image-item:** This class is applied to each individual image within the gallery.

<!DOCTYPE html>

<html>

<head>

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<link rel="stylesheet" href="style.css">

</head>

<body>

<h1>Flexbox Layout with Responsive Order</h1>

<h2>Order (Changes on Resize)</h2>

<div **class="container"**>

<div **class="item"**>Item 1: Content about the first item.</div>

<div **class="item"**>Item 2: Content about the second item.</div>

</div>

<h2>Row and Column</h2>

<div **class="row"**>

<div **class="item"**>Item 1: Row item 1</div>

<div **class="item"**>Item 2: Row item 2</div>

<div **class="item"**>Item 3: Row item 3</div>

</div>

<div **class="column"**>

<div **class="item"**>Item 1: Column item 1</div>

<div **class="item"**>Item 2: Column item 2</div>

<div **class="item"**>Item 3: Column item 3</div>

</div>

<h2>Shrink and Grow</h2>

<div **class="container"**>

<div **class="item shrink"**>Shrink: This item will shrink to fit the available space.</div>

<div **class="item grow"**>Grow: This item will grow to fill the available space.</div>

</div>

<h2>Image Gallery</h2>

<div **class="image-label"**>

<h2>Image Gallery</h2>

<div **class="image-gallery"**>

<div **class="image-item"**><img src="https://picsum.photos/100" alt="Image 1"></div>

<div **class="image-item"**><img src="https://picsum.photos/100" alt="Image 2"></div>

<div **class="image-item"**><img src="https://picsum.photos/100" alt="Image 3"></div>

<div **class="image-item"**><img src="https://picsum.photos/100" alt="Image 4"></div>

</div>

</div>

</body>

</html>

1. Put the CSS for flexboxes in style.css

**Body:**

* + Set the default font for the entire page to a sans-serif font using font-family: sans-serif;.

**Container:**

* + Enable flexbox layout for elements with the "container" class using display: flex;.
  + Allow flex items to wrap onto multiple lines if necessary using flex-wrap: wrap;.
  + Distribute flex items evenly within the container with space between them using justify-content: space-around;.

**Image Item:**

* + Add a 10-pixel margin around each "image-item" using margin: 10px;.
  + Set initial width to 200 pixels, allow equal growth/shrink, and set a minimum width of 200 pixels using flex: 1 1 200px;.
  + Set a maximum width of 300 pixels for responsiveness using max-width: 300px;.
  + Make the image fill the entire width of its container using width: 100%; for images within "image-item" elements.
  + Maintain the image's aspect ratio using height: auto; for images within "image-item" elements.

**Item:**

* + Set the background color to light gray using background-color: #f0f0f0;.
  + Add a 10-pixel margin around each "item" using margin: 10px;.
  + Add 20 pixels of internal padding within each "item" using padding: 20px;.
  + Center the text content within each "item" using text-align: center;.
  + Make "item" elements flexible and allow them to take up equal space within their parent container using flex: 1;.

**Row and Column:**

* + Enable flexbox layout for elements with the "row" class using display: flex;.
  + Enable flexbox layout for elements with the "column" class using display: flex;.
  + Arrange the children of "column" elements vertically using flex-direction: column;.

**Shrink and Grow:**

* + Make elements with the "shrink" class more likely to shrink when space is limited using flex-shrink: 1;.
  + Make elements with the "grow" class more likely to grow when space is available using flex-grow: 2;.

**Image Gallery:**

* + Enable flexbox layout for elements with the "image-gallery" class using display: flex;.
  + Allow image items within the "image-gallery" to wrap onto multiple lines using flex-wrap: wrap;.
  + Center the image items horizontally within the "image-gallery" using justify-content: center;.
  + Add a 10-pixel margin around each "image-item" within the "image-gallery" using margin: 10px;.
  + Set a maximum width of 200 pixels for the images within "image-item" elements using max-width: 200px;.
  + Maintain the image's aspect ratio using height: auto; for images within "image-item" elements.

**Responsive Order:**

* + Apply the following styles only when the screen width is 768 pixels or larger:
    - Reverse the order of the first child item within elements with the "item" class using order: 2;.
    - Reverse the order of the second child item within elements with the "item" class using order: 1;.
  + Apply the following styles only when printing:
    - Hide the element with the "image-label" class using display: none !important;.

1. Save and test by resizing.