Interactive class

```
hover:{class}
focus:{class}
active:{class}
group-hover:{class}
```

Eta always **prefix** + **className** format e hobe.

1. Hover (mouse er upor gele style change)

<div class="w-40 h-40 bg-blue-400 hover:bg-blue-600 hover:scale-110
transition"></div>

- Normally blue-400
- Hover korle blue-600 hobe + size barabe

2. Focus (input/select click korle)

```
<input
   type="text"
   class="border border-gray-400 focus:border-blue-500 focus:ring-2
focus:ring-blue-300 rounded p-2"
/>
```

- Normally gray border
- Focus korle blue border + ring

3. Active (button press korle)

```
<button class="bg-green-500 active:bg-green-700 px-4 py-2 rounded text-
white">
   Click Me
</button>
```

- Normally green-500
- Press kore dhore rakle green-700

4. Group Hover (parent hover hole child element change)

<div class="group w-40 h-40 bg-gray-200 hover:bg-gray-300 flex items-center justify-center rounded">

```
<span class="opacity-0 group-hover:opacity-100 text-black">Hello Ekra

(/span>
</div>
```

· Box er upor hover korle child text show hobe

5. Transition & Animation Combo

Interactive feel smooth korte hole always **transition** use koro:

```
<div class="w-40 h-40 bg-pink-400 hover:bg-pink-600 transition duration-300
ease-in-out"></div>
```



Link:https://tailwindcss.com/docs/columns

Column classes (Tailwind Grid / Flex)

Tailwind e bootstrap-er moto col- class nei, but **grid** ba **flexbox** dive column banaite hoy.

1. Grid System

2. Responsive Columns

- Mobile → 1 column
- Tablet (md) → 2 column
- Desktop (lg) → 4 column

Responsive Images

Tailwind e image responsive korte max-width + height auto use korte hoy.

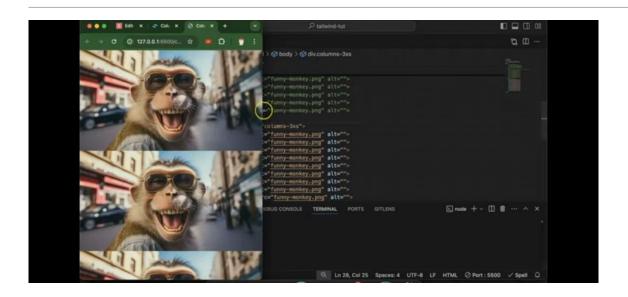
```
<img src="photo.jpg" class="max-w-full h-auto rounded-lg shadow-md" />
```

Eta screen chhoto hole image shrink hobe, but quality break hobena.

Example: Responsive Image Grid

```
<div class="grid grid-cols-1 sm:grid-cols-2 md:grid-cols-3 gap-6 p-4">
    <img src="photo1.jpg" class="max-w-full h-auto rounded-xl shadow-lg" />
  </div>
  <div>
    <img src="photo2.jpg" class="max-w-full h-auto rounded-xl shadow-lg" />
  </div>
  <div>
    <img src="photo3.jpg" class="max-w-full h-auto rounded-xl shadow-lg" />
  </div>
</div>
```

- **Mobile:** ek line e 1 image
- Tablet: ek line e 2 image
- Desktop: ek line e 3 image
- Images are fully responsive //>/>/>/



** Flexbox in Tailwind — Complete Guide

♦ 1. Enable Flex

```
<div class="flex"> ... </div>
```

Makes the container a **flexbox**.

2. Flex Direction

Controls whether items go **row/column**.

- flex-row → Default (left to right)
- flex-row-reverse → Right to left
- flex-col → Top to bottom
- flex-col-reverse → Bottom to top

3. Justify Content (Horizontal alignment)

```
<div class="flex justify-start">...</div> <!-- Left -->
<div class="flex justify-center">...</div> <!-- Center -->
<div class="flex justify-end">...</div> <!-- Right -->
<div class="flex justify-between">...</div><!-- Space between -->
<div class="flex justify-around">...</div> <!-- Space around -->
<div class="flex justify-evenly">...</div> <!-- Equal spacing -->
```

4. Align Items (Vertical alignment)

```
<div class="flex items-start">...</div> <!-- Top -->
<div class="flex items-center">...</div> <!-- Middle -->
<div class="flex items-end">...</div> <!-- Bottom -->
<div class="flex items-stretch">...</div> <!-- Stretch to fill -->
<div class="flex items-baseline">...</div><!-- Text baseline -->
```

5. Align Content (when wrapping on multiple rows)

```
<div class="flex flex-wrap content-start">...</div>
<div class="flex flex-wrap content-center">...</div>
```

```
<div class="flex flex-wrap content-end">...</div>
<div class="flex flex-wrap content-between">...</div>
<div class="flex flex-wrap content-around">...</div>
<div class="flex flex-wrap content-evenly">...</div>
```

♦ 6. Wrap & No-Wrap

- flex-wrap → Items go to the next line if space ends
- flex-nowrap → Items stay in one line (default)
- flex-wrap-reverse → Wraps to the top instead of bottom

♦ 7. Gap Between Items

```
<div class="flex gap-4">...</div>
```

(Instead of using margin hacks ∜⟩)

♦ 8. Flex Grow, Shrink, Basis

• Grow (expand):

```
<div class="flex-1">...</div> <!-- takes available space -->
<div class="grow">...</div> <!-- also grow -->
```

Don't grow:

```
<div class="grow-0">...</div>
```

Shrink:

```
<div class="shrink">...</div>
<div class="shrink-0">...</div> <!-- don't shrink -->
```

Flex Basis (initial size):

```
<div class="basis-1/2">...</div> <!-- 50% width -->
<div class="basis-1/3">...</div> <!-- 33% width -->
```

9. Order

Change item order.

```
<div class="order-1">Item 1</div>
<div class="order-2">Item 2</div>
<div class="order-last">Last Item</div>
```

Combine with responsive prefixes:

<div class="order-2 sm:order-1">Item</div>

♦ 10. Align Self (individual item control)

```
<div class="self-start">...</div>
<div class="self-center">...</div>
<div class="self-end">...</div>
<div class="self-stretch">...</div>
<div class="self-baseline">...</div></ti>
```

♦ 11. Flex Utilities (shorthand)

- flex-1 → flex: 1 1 0%
 flex-auto → flex: 1 1 auto
 flex-initial → flex: 0 1 auto
- flex-none → flex: none

♦ 12. Responsive Flex

Use breakpoints:

```
<div class="flex flex-col sm:flex-row md:justify-between lg:items-center">
    ...
</div>
```

Direction & alignment change with screen size.

Interview Ready Answers

Q: How do you center items with Tailwind Flex?

Use flex justify-center items-center.

Q: How do you wrap items to the next line?

Use flex flex-wrap.

Q: How do you reorder items for small screens?

Use order-{n} with responsive prefixes, like sm:order-1 md:order-2.

Q: What's the difference between justify-* and items-*?

justify-* = horizontal (main axis), items-* = vertical (cross axis).