GSAP Full Learning Roadmap

1■■ Basics – Core Methods

- `gsap.to()`
- `gsap.from()`
- `gsap.fromTo()`
- `gsap.set()` (instant set, no animation)
- ■ Skills: move, fade, scale, rotate, change colors

2■■ Animation Parameters

- `duration`
- `delay`
- `repeat` / `repeat:-1` (infinite loop)
- `yoyo`
- `stagger`
- `ease` (power, bounce, elastic, back, etc.)
- `transformOrigin`
- `backgroundColor`, `color`

3■■ Timelines

- `gsap.timeline()` → sequence animations
- `tl.to()`, `tl.from()`, `tl.fromTo()`
- Control: `pause()`, `play()`, `reverse()`, `seek()`

4■■ Easings (Motion Styles)

- Built-in: `power1`, `power2.inOut`, `back`, `bounce`, `elastic`
- CustomEase (make your own curve)

5■■ Staggers (Multiple Elements)

- Animate groups of elements with `stagger`
- `gsap.to('.box', {y:100, stagger:0.2})`

6■■ Scroll Animations (ScrollTrigger)

- Animate when elements enter the viewport
- Pin sections
- Parallax effects
- ■ Most used in modern websites

7■■ Advanced Controls

- `gsap.utils` (random(), selector(), wrap())
- Callbacks (`onStart`, `onComplete`)

- Labels in timelines
- `scrub` with ScrollTrigger

8■■ Plugins

- ScrollTrigger (most popular)
- MotionPath
- Flip
- Draggable
- TextPlugin

9■■ Real Projects

- Landing page hero animation
- Button hover & micro-interactions
- Scroll-triggered section reveals
- Complex storytelling animations