

1.1.1 — What “Pro-Level GSAP” Actually Means ?

(Skills checklist + what “good” looks like in real WordPress/Bricks projects)

Pro-level GSAP isn't about knowing every method; it's about delivering **motion that feels intentional, resilient, performant, and maintainable**—especially under real constraints: responsive layouts, CMS content changes, caching/minification plugins, popups, query loops, and client edits.

Below is a *practical* checklist you can use to self-assess and to guide what we'll build throughout the course.

1) Motion Design Fundamentals (You're animating meaning, not pixels) ??

A pro can explain *why* something moves—not just *how*.

1. Intent & hierarchy

1. You can articulate the purpose of each animation:
 1. *Guidance* (direct attention)
 2. *Feedback* (confirm an action)
 3. *Continuity* (connect states)
 4. *Delight* (brand personality—used sparingly)
2. You avoid “animation for animation's sake.” If it doesn't help, it goes.

2. Timing literacy

1. You intentionally choose durations (not random defaults).
2. You understand the “feel” difference between:
 1. Quick UI feedback (often ~0.12-0.25s)
 2. Content reveals (often ~0.4-0.9s)
 3. Storytelling sequences (often 1.2s+ total, composed of smaller beats)
3. You can *speed up or slow down* an entire experience consistently (tokens / global defaults).

3. Easing literacy

1. You know what easing communicates:
 1. *Ease out* = arrives gently (common for entrances)
 2. *Ease in* = leaves decisively (common for exits)

3. *Ease in-out* = smooth travel (common for continuous motion)
 2. You keep easing consistent across a site (design system approach).
 4. **Spatial consistency**
 1. Your distances match layout scale (e.g., cards move 12–24px, not 200px).
 2. You avoid moving elements so far they feel disconnected from where they came from.
 3. You consider directionality:
 1. Upward motion often reads as “lifting / appearing”
 2. Downward motion often reads as “dropping / dismissing”
 3. Horizontal motion can imply “navigation / progression”
-

2) GSAP Core Mastery (Fluent with the primitives) ?

A pro is fast because they deeply understand the foundational building blocks.

1. Tween fluency

1. You know when to use:
 1. `gsap.to()` (animate to a known end state)
 2. `gsap.from()` (reveal from an initial state without manually setting it in CSS)
 3. `gsap.fromTo()` (when you need exact start and end control)
2. You understand that `from()` can be tricky if something else sets the starting styles (CSS, inline styles, other scripts).

2. Property fluency

1. You prefer transforms and opacity for performance.
2. You know the difference between:
 1. `x/y` vs `translateX/translateY`
 2. `autoAlpha` vs `opacity`
 1. `autoAlpha` toggles visibility at `0` (often ideal for entrances/exits)
3. You recognize “expensive” properties (e.g., layout-triggering ones like `top/left/width/height`) and avoid them when possible.

3. Stagger fluency

1. You can stage lists of elements without writing loops manually.
2. You can produce different rhythms:
 1. Subtle (small stagger, gentle ease)
 2. Snappy (short duration, tighter stagger)
 3. Dramatic (longer stagger, stronger ease)

4. Callbacks & lifecycle

1. You use callbacks for *integration*:
 1. Toggling classes
 2. Updating ARIA states
 3. Enabling pointer events only after animation completes

2. You avoid heavy work in `onUpdate` that causes jank.
-

3) Timelines (The “pro multiplier”) ?

Pros default to timelines because they scale.

1. **Composition & readability**

1. You structure timelines so the sequence reads like a story.
2. You use labels and the position parameter to avoid “magic delays.”

2. **Control**

1. You can `play()`, `pause()`, `reverse()`, `restart()`, and set progress.
2. You can attach a timeline to UI state (menu open/close, modal in/out).

3. **Modularity**

1. You can write functions that **return timelines**:
 1. One function per component (hero, cards, nav, modal)
 2. No shared global selectors that accidentally target other sections
-

4) ScrollTrigger Competence (Real-world scroll without fragile hacks) ?

Scroll is where “toy demos” often break. Pros make it robust.

1. **Trigger calibration**

1. You understand `trigger`, `start`, `end`, `toggleActions`, `scrub`, and `pin`.
2. You use markers for calibration during dev—and remove/disable for production.

2. **Responsiveness**

1. You implement different scroll behaviors by viewport size using `ScrollTrigger.matchMedia()`.
2. You anticipate layout changes (fonts, images, accordions) and handle refresh correctly.

3. **Performance**

1. You batch repeated elements rather than creating a heavy trigger per item when needed.
 2. You avoid massive scrubbed transforms on huge images unless you’ve tested mobile.
-

5) WordPress + Bricks Integration (Where pros quietly win) ?

In WP/Bricks, “it works on my machine” isn’t enough.

1. **Script loading discipline**

1. You know where code should live:
 1. Global vs page vs template vs component
2. You avoid loading the same GSAP init multiple times through templates/popups.

2. **Targeting strategy**

1. You use stable selectors:
 1. Classes and `data-*` attributes (often best)
 2. Avoid brittle auto-generated IDs or deeply nested selectors
2. You scope animations per component instance:
 1. If a section repeats, each instance animates independently.

3. **Dynamic DOM awareness**

1. You handle:
 1. Bricks popups/off-canvas that mount/unmount
 2. Query loops (unknown item count)
 3. AJAX-ish content changes (where applicable)
2. You defend against missing elements (no console errors on pages where a component doesn’t exist).

4. **Compatibility with caching/minification**

1. You know how to debug when:
 1. Scripts are deferred
 2. Order changes
 3. Minifiers rewrite or bundle unexpectedly

6) Maintainability (Code you can ship and revisit) ?

Pros are trusted because their work stays stable over time.

1. **Consistent patterns**

1. You have a repeatable component pattern:
 1. Find root element
 2. Query children within root
 3. Create timeline/tweens
 4. Return cleanup function (when applicable)

2. **Configuration & “motion tokens”**

1. You define shared constants for:
 1. Durations (fast/medium/slow)
 2. Eases (standard set)
 3. Distances (small/medium/large)
 2. You can adjust the entire site's "feel" centrally without editing 40 tweens.
 3. **Naming and documentation**
 1. Your code reads like intent, not like a puzzle.
 2. You leave notes where Bricks/WP behavior is non-obvious.
-

7) Accessibility & UX Responsibility ?

This is non-negotiable at a pro level.

1. **Reduced motion**
 1. You respect `prefers-reduced-motion`:
 1. Provide alternative behavior (fade only, shorter motion, or none)
 2. Don't punish users with broken layouts if animations are disabled
 2. **Keyboard & focus**
 1. You don't animate in a way that traps or loses focus.
 2. For modals/menus, you synchronize:
 1. Visual state
 2. ARIA state
 3. Focus management
 3. **Avoiding "harmful" motion**
 1. You avoid aggressive parallax and excessive scrub on large sections unless there's a strong reason.
 2. You consider readability for text animations (no over-kinetic type).
-

8) Performance Engineering (Smooth on real devices) ??

Pros test on the devices clients actually have.

1. **Performance intuition**
 1. You understand the rough cost stack:
 1. Layout (often expensive)
 2. Paint (can be expensive)
 3. Composite (usually best-case)
 2. You choose properties and strategies that land you in "composite" territory (transforms/opacity).

2. Profiling

1. You can use DevTools to:
 1. Spot long frames
 2. Identify layout thrashing
 3. Confirm smoothness during scroll

3. Cleanup

1. You kill timelines and ScrollTriggers when they shouldn't persist.
 2. You avoid duplicate instances after page builder edits, partial reloads, or popup reopens.
-

9) A Quick Self-Assessment (Score yourself) ?

Rate each item **0-2**:

1. Design intent

1. I can explain the purpose of each animation.

2. Tween fundamentals

1. I confidently use `to/from/fromTo`, easing, stagger, callbacks.

3. Timelines

1. I structure sequences with labels/positioning (not delay hacks).

4. ScrollTrigger

1. I can build responsive, calibrated triggers and debug them.

5. Bricks/WP integration

1. My selectors are stable, scoped, and my scripts don't duplicate.

6. Accessibility

1. I respect reduced motion and keyboard/focus needs.

7. Performance

1. I can profile, optimize, and keep things smooth on mobile.

8. Maintainability

1. My code is modular, reusable, and documented.

Interpretation

1. **0-6**: You can build effects, but they may be fragile or inconsistent.
 2. **7-11**: You're functional; pro habits are emerging.
 3. **12-16**: You're operating professionally—now refine style, systems, and speed.
-

Revision #1

Created 2026-04-19 18:02:15 UTC by art10m

Updated 2026-04-19 18:09:47 UTC by art10m