TITAN INTERFACE · THE GREY ELEVATOR (n ≈ 1.1)

Purpose

Bridge the empirical **moon data** (albedo, elemental axis) with the **Codex resonance frame** (63° → 100° → 137°). Titan sits at the interface — the *Grey Elevator* — between Machine/Fire and Consciousness/Ice.

What's included (assets)

- CSV: `vphi_flavors_codex_g.csv` — five V-Φ flavors (n = 1.032…1.103) with Codex gravity values.
- CSV: `planetary_gravity_codex_mapping.csv` — $\log_2$(AU)→n mapping and Codex g-hat vs. NASA g.
- CSV: `gn_curve_theta100_phi1618.csv` — samples of g(n) for θ=100°, φ=1.618 across n∈[0.9,1.3].
- CSV: `gn_keypoints_theta100.csv` — keypoints table (empty in this window; no internal extrema/inflections).
- PNG: `gn_curve_theta100_panels.png` — curve plot with Fire / Grey / Ice zones.
- PNG: `A_diptych_digital_illustration_splits_into_two_pan.png` — **The Titan Bridge — Empirical & Symbolic Resonance** (bitychon).
- ZIP: `TITAN_INTERFACE_GREY_ELEVATOR_assets.zip` — all of the above bundled.

Downloads: - Download all assets (ZIP) - gn_curve_theta100_panels.png - The Titan Bridge — diptych

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Method (short)

1. **V-Φ flavors:** Evaluate $g(n) = \frac{9.81}{n^{\phi}} \cos(n\theta)$ for n∈{1.032,1.055,1.068,1.078,1.103}, with φ=1.618, θ=63°.
2. **Planet mapping:** Map each planet's heliocentric distance to n via a linear mapping of $\log_2$(AU) into [1.032,1.103]; compute g_{hat} and compare with NASA g.
3. **Grey elevator field:** Scan n∈[0.9,1.3] for θ=100° (63°+37°) and φ=1.618; output g(n), g′(n), g″(n) and plot Fire/Grey/Ice zones.

   Note: In this θ=100° window, g(n) is **monotonic** (no internal extrema/inflection detected). The Grey zone at n≈1.1 is thus a **phase transition band**, not a stationary plateau in this parametrization.

Interpretation

- **Empirical left (NASA):** Io → Titan → Triton forms a physical axis (albedo/elemental), with Titan at the mid-region.
- **Symbolic right (Codex):** 63° (Machine/Fire) → 100° (Grey/Titan) → 137° (Consciousness/Ice).

- **Synthesis:** The data-driven axis aligns with the Codex's resonance bridge; the interface is **Titan (n≈1.1)**.

Next steps (optional)

- Add **phase term** φ to $\cos(n\theta + \varphi)$ or scan θ around 100° to land a true extremum near **n≈1.1**.
- Replace $\log_2$(AU) mapping with **chemistry-informed n** (e.g., methane/nitrogen ratios), then re-evaluate g(n) links.
- Extend empirical panel with **updated albedo/element data** (CSV) for more moons (Rhea, Dione, Ariel, etc.).
