CQE — Frontpage Explainer

CQE — Commit, Quantize, Explain
Frontpage Explainer (v1.0) • 2025-09-20 • 1-page

What CQE is
• A disciplined reasoning+execution loop that turns messy work into reproducible receip
• Spine: Stand-ins → DNA-10 → Octet overlays (8 views) → Palindromic Mirror test → Δ-li
(local repair) → Strict ratchet → 4-bit commit → Receipts.
• Geometry is governance: we use 4/8/64 “wrapping” themes and parity (mirror) to preven
 form is fixed, meaning is provisional until it passes.

Why it works
1) Coverage without bloat: the Octet forces 8 materially independent views, not just A/
2) Bias deletion: forward∘inverse≈identity (mirror) must hold within set tolerances.
3) Safe repair: Δ-lifts are small, monotone fixes; if they regress other views, they’re
rejected.
4) Maturity by numbers: strict thresholds only tighten after a pass—no backsliding.
5) Receipts over vibes: every pass yields a tiny 4-bit code + hashes + debt/vote tallie

The 4/8/64 pattern (at a glance)
• 4 bits → minimal receipt for a job; 4 gates in the “hinge” (n=4) that force an octet
• 8 views → the Octet overlay (H1…H8) you must pass; generates stable geometry (E8 slic
• 64 lanes → sidecars (domain mini-labs) you can light up as needed; each runs the same

What you actually do (the 7 Gates, G0→G6)
G0 Tokens — Write stand-in tokens for quantities (units, guards, ranges). No semantics
G1 DNA-10 — Save state: [timing, polarity, scale, pose, domain, conditioning, units,
precision, cost, seed].
G2 Octet   — Lay 8 views (methods/slices/regimes). Aim for independence, not repeats.
G3 Mirror — Run forward↔inverse or swapped-order replay; demand palindromic rest.
G4 Δ-lift — Apply at most one local, monotone repair per failing view; rerun non-regre
G5 Strict — Tighten thresholds only after success; record the new bound.
G6 Receipt — Log OPE/FCE “debt,” mirror/ view votes, tiny 4-bit code, page/Merkle hash.

What goes into the Ledger
• Form pack: construction (e.g., Code+Glue), automorphism ID (M24/Monster-class), octet
thresholds, DNA-10.
• Meaning pack: the current token set (domain semantics). This stays provisional until
• Commit pack: four-bit code + receipts; enough to replay the job 1:1 anywhere.

Sidecars (examples; turn on what matters)
OPTICS, THERMAL, POLAR, EM_FIELD, SPINTRONICS_Q, BIO_COHERENCE, CHEM_KINETICS, GEO_FLUI
FIN_RISK, ROBOT_KIN, MATH/UNITS, CONTROL, PLASMA, ACOUSTICS, COSMOS, INFO/THERMO … up t

Color/Marks (paper kit)
Gray = rest box; 8 hues = views; Red = Δ-lift; Gold = strict; Blue = receipts. Four lit
squares = 4-bit.

How to start (15-minute quickstart)
1) Pick a problem; write 6–12 stand-in tokens with units/guards.
2) Draft an Octet of views; avoid near-duplicates.
3) Define a mirror test (forward↔inverse, or train↔eval swap).
4) Run; apply at most one Δ-lift; tighten strict; log a 4-bit receipt.
5) If something fails, annihilate the path (log a breadcrumb) and try a different Δ-lif

Safety & redaction
• Bind meaning only after commit; redact field-specific sensitive steps; keep receipts
• “Some results redacted for safety” is acceptable—receipts still prove the pass.

Tagline
Code → Lattice → Overlay → Mirror → Commit. Form is fixed; meaning earns its place.