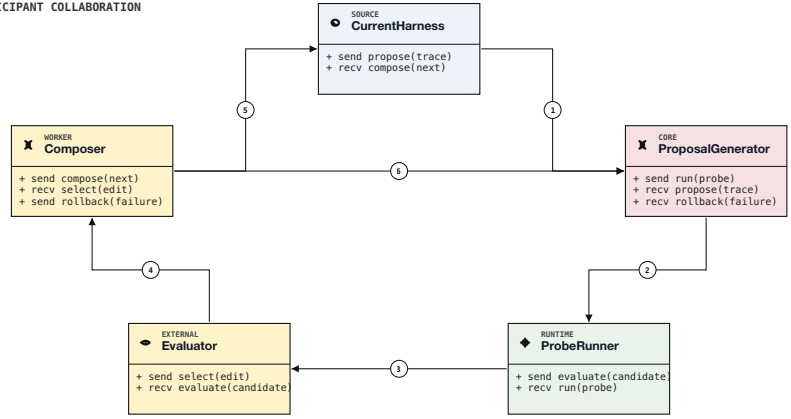
E02 Propose–Probe–Compose

Evolution · A² A3 · cycle role collaboration

Improve a harness using contrastive probes.

STRUCTURE · PARTICIPANT COLLABORATION



PATTERN INTERFACE

context

A base harness is available for improvement.

trigger

A proposal changes a bounded harness component and probes are executed.

structure

Proposal scope, task probes, evaluator, and composition operation.

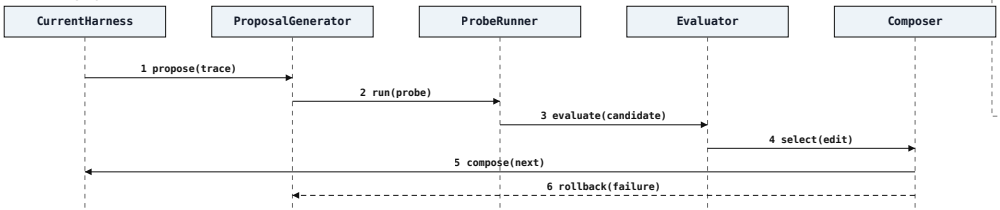
effect

Only evidence-supported edits are composed into the next harness.

CONTRACT ANNOTATIONS

requires	Harness components are addressable and probes use permitted data.
ensures	Candidate edits carry probe results and composition provenance.
invariant	Evaluation data cannot be silently repurposed as final test data.
violation	Failed probes, invalid edits, and conflicting changes remain uncomposed.

INTERACTION



MESSAGE TRACE `1 propose(trace) → 2 run(probe) → 3 evaluate(candidate) → 4 select(edit) → 5 compose(next) → 6 rollback(failure)`

Evidence: 6/41 repositories, 6/36 families; 6 trajectories (1 multi-checkpoint); exact audit: not sampled.

Variation: Contrastive probes, recursive improvement, and component-level editing.

Negative control: A one-shot prompt rewrite without probes is not E02.