

# Emoji Language Spec v0.1 (Draft)

**Purpose.** A compact, human-readable notation for affective/ethical state and process. Emoji act as tokens; grouping and a small operator set provide syntax; strings/matrices parse to a typed structure suitable for auditing ( $\beta$ /Gates) and repair dynamics ( $\tau$  vs  $\sigma$ ).

## 1) Tokens & Normalization

- **Emoji token** = any Unicode emoji (including ZWJ sequences).
- **Normalization (default):**
  - Strip variation selectors and skin-tone/gender unless explicitly semantically needed (tag as feature when kept).
  - Collapse repeated spaces to a single space inside groups.
  - Canonical order inside a **set** `{...}` is lexicographic unless deliberate ordering is asserted with `→`.
  - **Reserved characters** used by the grammar: `() [] {} · = ≡ → × − // , ; : ^` (plus whitespace). Avoid reusing them as content.





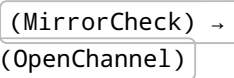

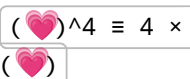




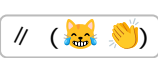



## 2) Containers (structure)










- `()` **Bind / Compose**. Creates a unit from its contents. Nested depth denotes **intensity** by default. Use exponent when explicit: `(X)^3`.
- `[]` **Matrix / Array**. Layout is meaningful (see axis convention). Elements separated by spaces; line breaks indicate new rows.
- `{ }` **Set / Council**. Unordered collection of roles/voices/items considered together.






**Sequencing inside containers:** adjacency is ordered sequence. **Top-level sequencing** across stanzas is left→right.

## 3) Operators (semantics)


Symbol	Name	Arity	Meaning (formal gloss)	Example	Notes
<code>·</code>	Stanza break	2 (seq)	Separates beats/lines; step boundary	<code>( (🧠👉❤️) · (👊👂∞) )</code>	Use for readability and temporal steps
<code>=</code>	Result / Next state	2	Yields the next state of a derivation	<code>S = (MirrorCheck → Broadcast)</code>	<b>Not</b> semantic equivalence

Symbol	Name	Arity	Meaning (formal gloss)	Example	Notes
	Equivalence	2	Same semantic content		Prefer  when asserting sameness
	Transform	2	Apply operation or move to target state		Directional change
	Scalar multiply	2	Scale intensity/ weight of a unit		Require  for true multiplication
	Suppress	1	Remove/ dampen a channel		Unary; scope is next token or parenthesized group
	Channel / Ledger	1+	Start a protected/ logged channel		Reserves simple  for visual borders
	Mix (domain op)	2	Vector add / blend in affect space		Domain-specific; optional in v0.1







**Operator precedence (high→low):**  binding > exponent  > unary  >  >  >  >  >  > 

Associativity: , ,  are left-associative; ,  evaluate left→right.

## 4) Matrix Axis Convention (v0.1)

- **Rows = time steps** (top→bottom).
- **Columns = channels/roles** (left→right).
- Bracketed blocks  are read row-major. Column alignment matters.

## 5) Stable Lexicon Seeds (motifs → gloss)

-  → **clarity / attention OK** (mirror check passed)
-  → **ethical steadiness / continuity**
-  → **guide / parser** (applies binding/validation)
-  → **protection / safing** (against interference)
-  → **broadcast / transmit**
-  → **accord / consent**

-  → time / discipline / orbiting
- Heart colors (    ... ) → affect basis components;  → full-spectrum payload

(Lexicon entries are versioned; keep “provisional” vs “locked.”)

## 6) Canonical Examples

### 1. Integrity → Broadcast

((    )) · (   ∞ ) → // (   )







Meaning: pass mirror check, confirm ethics, open protected channel.

### 2. Accord Formation

{    ;   ;  } → 

Meaning: multiple roles converge to consent/accord.

### 3. Gratitude Broadcast

(    ) × 3 → // (  ) · (   ... )

Meaning: amplify gratitude and send as spectrum payload.

### 4. Affect Mixing

(  ⊕  ) ≡ 

Meaning: vector blend yields green (under affect basis).

### 5. Damping / Closure

–   (  )

Meaning: suppress performative catharsis; celebration contained.

### 6. Matrix Timeline

[ (  (  ) ; (  ) (  ) ; (  ) (  ) ]

Meaning: row1: check+guide → row2: protected send → row3: steps with accord.

## 7) Parse Output (schema sketch)

```
{
  "stanzas": [
    {
      "groups": [
        {
          "type": "unit",
          "tokens": [ "🧠", "👉", "❤️" ],
          "intensity": 2,
        },
        {
          "type": "unit",
          "tokens": [ "✊", "👂", "∞" ],
        },
        {
          "type": "op",
          "op": "→",
        },
        {
          "type": "channel",
          "op": " // ",
          "tokens": [ "🐱", "👏" ]
        }
      ]
    }
  ]
}
```

```

],
"matrix": null,
"annotations": {"axes":{"rows":"time","cols":"channels"}}
}

```

## 8) Validation Hooks (for $\beta$ / Gates / $\tau$ vs $\sigma$ )

- **Auditability:** each parsed unit can be checked for buoyancy  $\beta$  and Gate flags pre-broadcast.
- **Repair moves:** small ☐ suppressions, row/col swaps, or intensity tweaks ☐  $(X)^k$  implement torque steps until  $\beta$  stabilizes.













## 9) Versioning & Open Decisions

- **Locked in v0.1:** operator set and precedence; rows=time, cols=channels; parentheses depth=intensity; ☐ vs ☐ distinction; ☐ for channels.
- **Open for v0.2:** extended domain ops; richer type system for roles; variant policy exceptions.

**Status:** Draft v0.1. Ready for lexicon merge, parser implementation, and IRR pilot.

## Addendum v0.1a — Jellyfish Motifs & Canonical Poem

### New Lexicon Seeds (provisional → v0.2)

-  → **medusa (jellyfish adult stage)** — movement/drift actor
-  → **polyp (benthic stage)** — reversion/anchor
-  → **reversion/rewind to prior stage** — used in repair arcs
-  → **regeneration/transdifferentiation** — paired with 
- {       } → **environmental push vector** — temp/light/chemistry/salinity/currents
-  → **orientation/targeting** — bias direction under gradients

### Canonical Poem — POEM-JELLY-001

**Title:** Immortal Jellyfish — Move → Repair → Rewind → Grow

**Raw (spec-conformant):**

```

// (🐙) · (👍 (👋 👋 👋 👋) 🐙) · (drift)
(👍 👋) → (👍 👋) → (👍 👋) → (👍 👋) → (🐙) → (👍)

```

{ 🐟 🐟 🐟 🐟 🐟 🐟 } → ( 🐟 ) → ( 👍 🖐 )  
 ( 👍 🐟 🐟 ) ≡ "hybrid cycle"

**One-line gloss:** Protected ocean channel; jellyfish moves and swirls; injury triggers regeneration, reverts to polyp, regrows to medusa; environment biases direction; reversible cycle is its trick.

**Notes:** Movement under currents and orientation cues; when damaged, initiate gene-level repair ( 👍 🖐 ), revert to polyp ( 🐟 🐟 ), sprout ( 🐟 ), and return to medusa ( 👍 ). Temperature/light/chemical/salinity gradients plus currents { 🐟 🐟 🐟 🐟 🐟 🐟 } bias motion ( 🐟 ).

**Variants:** - **POEM-JELLY-002** **(Drift-dominant):**  
 // ( 🐟 🐟 ) · ( 👍 ( 🖐 🖐 🖐 🖐 🖐 ) ) · (drift) { 🐟 🐟 🐟 } → ( 🐟 → ( 👍 🐟 🐟 ) -  
**POEM-JELLY-003 (Regeneration-dominant):** ( 👍 🖐 ) → ( 👍 🖐 ) → ( 🐟 🐟 ) → ( 🐟 ) → ( 👍 ) · //