

Title:

How to Use the EL-1 English Emotional Lexicon

1. Purpose of EL-1

EL-1 provides a structured, computationally grounded mapping between natural-language emotional terms and the CEF's facet architecture. It enables:

- linguistic analysis
- affective computing
- psychological assessment
- knowledge-graph integration
- cross-disciplinary research

Each term is mapped to exactly one facet, ensuring clarity and preventing conceptual drift.

2. Structure of Each Lexicon Entry

Each entry in EL-1 includes:

A. Term

The English emotional word (noun form).

B. symbolicRepresentation

A sequence of functional powers (e.g., *withdrawal* → *inhibition* → *evaluation*). This expresses the term's structural emotional signature.

C. vectorRepresentation

A 10-dimensional normalized vector corresponding to the CEF's core operators. This enables computational comparison, clustering, and modeling.

D. mapsToFacet

The single facet (out of 50) that the term belongs to. This is the backbone of EL-1's semantic alignment.

E. Metadata (optional)

- valence
- arousal
- notes

These do not affect structural identity.

3. How to Interpret the Lexicon

Facet Mapping

The facet is the *primary* structural anchor.
All other fields support or refine this mapping.

Symbolic Representation

Use this when analyzing meaning, narrative structure, or emotional function.

Vector Representation

Use this for:

- machine learning
- clustering
- similarity analysis
- embeddings
- computational modeling

Historical Versions

These show how EL-1 evolved and support reproducibility.

4. How to Use EL-1 in Practice

A. Research

- categorize emotional terms
- compare emotional vocabularies
- analyze emotional narratives

- study emotional development or dysregulation

B. Affective Computing

- map text to emotional states
- build emotion-aware models
- integrate with NLP pipelines
- generate emotional embeddings

C. Knowledge Graphs

- instantiate LexicalEntry nodes
- attach facet mappings
- enrich emotional ontologies

D. Psychological Applications

- build assessment tools
- analyze client narratives
- identify emotional patterns

5. Relationship to the CEF Canon

EL-1 is part of the semantic layer of the CEF and depends on:

- TS-6 (facet architecture)
- TS-11 (facet definitions)
- TS-18 → TS-21 (computational layer)

It is fully integrated into the CEF Knowledge Graph.

6. Versioning

This bundle includes:

- **v1.0** — canonical 500-term lexicon
- **v0.1 → v0.4** — historical development versions

Only v1.0 should be used for research and applications.
