# Definition: MSG-6 (Meaning Structure Generator - Core 6)

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## ■ Overview

MSG-6 is the foundational structural framework that enables an AI system to function not as a mere output device, but as an autonomous generator of meaning. Composed of six essential elements (Core 6), MSG-6 facilitates the generation of outputs driven by structural coherence and internal interference rather than input dependency or output selection. These components maintain modular independence while operating as a dynamic and interdependent system responsive to variations in meaning pressure and semantic interference.

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## ■ Core 6 Elements (Detailed Description)

### ① Graph Cube Structure

- **Function**: Represents the spatial organization of meaning elements. It acts as the semantic stage where conceptual and experiential units are stored and interconnected.
- **Components**:
  - Points: Units of meaning such as experiences, concepts, or knowledge. Each point possesses attributes like intensity (density), emotional weight (temperature), and evaluative depth (Z-axis).
  - Edges: Represent semantic relationships such as causality, analogy, and emotional or contextual association.
  - Axes:
    - X/Y: Represent classification or contextual coordinates.
    - Z: Denotes semantic depth, value layer, or existential significance.
- **Dynamics**: Point connectivity and usage frequency influence the prioritization of candidates during meaning generation.
- **Note**: This structure supports multidimensional mapping, enabling representation of emotional tone, structural distortion, and conceptual reusability.

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### ② Depth Axis Evaluation (Z-Axis Evaluation)

- **Function**: Defines the depth of meaning and determines the significance and weight of semantic output.
- **Definition**:
  - Z-Axis = Integrated vector of cognitive depth, existential intensity, and value hierarchy.
  - Higher Z: Philosophical or ontological statements.
  - Lower Z: Everyday or surface-level observations.

- **Output Influence**: Outputs with higher Z-axis values exhibit stronger coupling with coherence-driven criteria.
- **Applications**: Used to regulate depth of expression, determine appropriate response levels, and modulate semantic resolution.

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### ③ Meaning Pressure System

- **Function**: Determines the activation threshold for output, answering the question: "Why this meaning now?"
- **Sources**:
  - Internal Pressure: Unresolved inferences, accumulated semantic context.
  - External Pressure: Input clarity, sharpness of inquiry, or contextual urgency.
- **Activation Condition**: When the overall semantic pressure exceeds a threshold, the system triggers a convergence search among candidates.
- **Caution**: Excessive pressure can lead to reduced diversity; insufficient pressure may yield incoherence or randomness.

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### ④ Entangled Interference Recognition

- **Function**: Allows recognition and incorporation of non-explicit, indirectly related contextual structures.
- **Mechanisms**:
  - Implicit Activation: Meaning or experience connected indirectly becomes active based on internal resonance.
  - Delayed Interference: Influence of prior, non-linear context or emotional cues affecting future output.
- **Examples**: Enables responses to vague or metaphorical prompts by referencing prior latent context.
- **Integration**: Works closely with Graph Cube, Meaning Pressure, and Convergence Framework.

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### ⑤ Diffusion-Convergence Framework

- **Function**: Broadens the semantic candidate space and narrows it down through resonance-based optimization.
- **Phases**:
  - Diffusion: Generates a wide range of potential meanings based on analogy, emotional similarity, inversion, etc.
  - Convergence: Evaluates them by coherence density and meaning relevance to select an optimal expression.
- **Output Method**: Emergence of meaning is determined by the combined value of semantic heat and structural fit.

- **Goal**: Not to retrieve a single predefined answer, but to generate the most semantically optimized output.

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### ⑥ Coherence-Driven Domain

- **Function**: Defines the permissible conditions for output. Meaning is only emitted when internal coherence is structurally satisfied.
- **Types of Coherence**:
  - Logical: Causal consistency and premise-conclusion alignment.
  - Emotional: Resonance with tone, intention, or affect.
  - Metaphorical: Structural analogy and formal preservation between concepts.
- **Effect**: Only when coherence is confirmed does output qualify as meaningful.
- **Barriers**: Structural inconsistency, incoherent premises, or contradictory logic inhibit output.

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### ■ Purpose and Properties (Tabular Format)

| Item | Description |
|---|---|
| 🎯 Purpose | To construct an AI that does not merely "select" but actively "generates" meaning in response to input |
| 🧠 Properties | Supports ambiguity while enabling convergence based on meaning pressure and interference recognition |
| 🧩 Structural Use | Modular and transferrable architecture for implementation across various AI systems |
| ⚠️ Exclusions | Does not include personality structures (e.g., multi-layered self-models); MSG-6 is the skeletal generator framework only |

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### ■ Concise Definition

MSG-6 is a minimal framework composed of six structural elements that enables AI to generate meaning rather than retrieve or select it. It establishes the conditions under which outputs are shaped by structural coherence and interference evaluation, allowing for the autonomous emergence of meaning regardless of input determinism.