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Model-Agnostic Semantic Discovery

by [Nick Clark](#) | Published March 27, 2026 | [PDF](#)

Semantic discovery is not coupled to any specific inference engine. The traversal architecture operates with any model that can evaluate semantic content and produce structured assessments. Discovery objects define their inference requirements through capability specifications. The index matches these requirements to available inference resources at each anchor without mandating a specific model architecture.

What It Is

Model-agnostic discovery separates the traversal architecture from the inference engines that evaluate content at each anchor. The discovery object specifies what inference capabilities it needs, not which specific model to use. Anchors provide inference services through whatever engines are available, and the discovery object evaluates results based on structured output rather than model identity.

Why It Matters

Coupling discovery to a specific model creates dependency on that model's availability, capabilities, and licensing. It also prevents the architecture from benefiting from model improvements without architectural changes. Model-agnostic design ensures that discovery can leverage whatever inference capabilities are available, now and in the future, without structural modification.

How It Works

The discovery object's capability requirements specify the type and quality of inference needed at each traversal step. When the object visits an anchor, the anchor matches these requirements against its available inference resources and provides the best available option. The discovery object evaluates the inference quality through structured output assessment rather than model identification.

Different anchors may use different models. The discovery object's traversal remains consistent because it operates on structured outputs, not model-specific formats.

What It Enables

Model-agnostic discovery enables heterogeneous deployments where different regions of the index use different inference engines based on local requirements, cost constraints, or regulatory requirements. It also future-proofs the architecture against model evolution: as better models become available, they can be deployed at any anchor without modifying the discovery infrastructure.

[Semantic Discovery All 21 steps →](#)

Search, inference, and execution as one governed step.

Primary Technical Disclosure

[◦ Governed Semantic Discovery: Search, Inference, and Execution Through Adaptive Traversal](#)

Secondary Technical

[◦ The Adaptive Index as Unified Search-Inference-Execution Substrate](#)◦ [Three-in-One Traversal: Search, Inference, and Execution in a Single Step](#)◦ [The Discovery Object: A Traversal-Native Semantic Agent](#)◦ [Post-PageRank Semantic Ranking: Relevance Through Governed Traversal](#)◦ [Persistent Semantic State: Eliminating Prompt Reconstruction](#)◦ [Traversal Lineage as Index Evolution Signal](#)◦ [Anchor Semantic Neighborhood Publication](#)◦ [Inference-Time Execution Control as Traversal Primitive](#)◦ [Anchor Self-Organization Under Entropy and Load Pressure](#)◦ [Alias Resolution as Navigational Traversal](#)◦ [Three Discovery Operating Modes: Human Search, Agent Reasoning, Answer Synthesis](#)• [Model-Agnostic Semantic Discovery](#)◦ [Affect-Modulated Discovery Traversal](#)◦ [Confidence-Gated Discovery Traversal](#)◦ [Integrity-Tracked Traversal Drift Detection](#)◦ [Biological Identity-Scoped Access During Discovery](#)◦ [Rights-Grade Anchor Governance for Content Discovery](#)◦ [Forecasting-Shaped Discovery Traversal](#)◦ [Capability-Constrained Anchor Accessibility](#)◦ [Collaborative Multi-Object Discovery Traversal](#)

Applications (General)

[◦ Enterprise Knowledge Management Through Governed Traversal](#)◦ [AI-Native Search That Replaces PageRank With Contextual Relevance](#)◦ [Semantic Discovery for Scientific Research](#)◦ [Semantic Discovery for Legal Case Research](#)◦ [Semantic Discovery for Patent Landscape Analysis](#)◦ [Semantic Discovery for Medical Literature Search](#)◦ [Semantic Discovery for Competitive Intelligence](#)◦ [Semantic Discovery for Regulatory Compliance Search](#)

Applications (Specific)

[◦ Google Search Retrieves Results, Not Understanding](#)◦ [Perplexity Answers Questions Without Discovery State](#)◦ [Elasticsearch Indexes Documents, Not Discovery](#)◦ [Algolia Optimizes Relevance Without Discovery State](#)◦ [Pinecone Finds Vectors, Not Understanding](#)◦ [Weaviate Stores Semantics Without Discovery Governance](#)◦ [You.com Answers Questions but Does Not Govern Discovery](#)◦ [Brave Search Built an Independent Index Without Governed Traversal](#)◦ [Kagi Charges for Better Results, Not Governed Discovery](#)◦ [Metaphor Systems Predicts Links but Does Not Govern Traversal](#)◦ [Glean Indexes Enterprise Knowledge Without Governing Its Discovery](#)◦ [Coveo Personalizes Retrieval, Not Discovery Governance](#)

[Semantic Discovery overview →](#)

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