Categorical Logic Foundations

Many important applications require reasoning with data. Data structures have many variations. Many of these variations can be described categorically.

Section 11.1

Figure 11.1: Categories of data structures

Certain data structures can be described as free models of algebraic theories. Each theory corresponds to a category, and the free model is the initial object in that category.

Set	The category of sets and functions. Objects are sets, morphisms are functions. The initial object is the empty set, and the terminal object is any singleton.
Grp	The category of groups and group homomorphisms. Objects are groups, morphisms are homomorphisms. The forgetful functor to Set has a left adjoint.
Ab	The category of abelian groups. A full subcategory of Grp. Every morphism has a kernel and a cokernel.
Ring	The category of rings and ring homomorphisms. Objects are rings, morphisms are homomorphisms.
CRing	The category of commutative rings. A full subcategory of Ring.
Field	The category of fields and field homomorphisms. Every morphism is either zero or injective.
Vect$_k$	The category of vector spaces over a field k. Objects are vector spaces, morphisms are linear maps. Every object is free.
Mod$_R$	The category of left R-modules. Objects are modules, morphisms are module homomorphisms.
Top	The category of topological spaces and continuous maps. Objects are spaces, morphisms are continuous functions.
Haus	The category of Hausdorff spaces. A full subcategory of Top.
CHaus	The category of compact Hausdorff spaces. Stone duality relates this to Boolean algebras.
Pos	The category of partially ordered sets and monotone maps. Objects are posets, morphisms are order-preserving functions.
Lat	The category of lattices and lattice homomorphisms. Objects are lattices, morphisms preserve meets and joins.
Heyt	The category of Heyting algebras and Heyting algebra homomorphisms. Heyting algebras model intuitionistic logic.
Bool	The category of Boolean algebras and Boolean algebra homomorphisms. Boolean algebras model classical propositional logic.
Cat	The category of small categories and functors. Objects are categories, morphisms are functors.
Grph	The category of directed graphs and graph homomorphisms. Objects are graphs, morphisms are graph homomorphisms.
Simp	The category of simplicial sets. Objects are simplicial sets, morphisms are simplicial maps.
Sch	The category of schemes. Objects are schemes, morphisms are scheme morphisms.
Aff	The category of affine schemes. A full subcategory of Sch. Equivalent to the opposite of CRing.
Man^n	The category of smooth n-manifolds and smooth maps. Objects are n-manifolds, morphisms are smooth maps.
Diff	The category of differentiable manifolds and differentiable maps. Objects are manifolds, morphisms are differentiable maps.
Sym	The category of symplectic manifolds and symplectomorphisms. Objects are symplectic manifolds, morphisms preserve the symplectic form.
Meas	The category of measurable spaces and measurable functions. Objects are measurable spaces, morphisms are measurable functions.
Prob	The category of probability spaces and measure-preserving maps. Objects are probability spaces, morphisms are measure-preserving functions.
Stoch	The category of stochastic maps. Objects are measurable spaces, morphisms are Markov kernels. Generalizes Meas and Prob.
Set$_*$	The category of pointed sets. Objects are sets with a distinguished basepoint, morphisms preserve the basepoint.
Top$_*$	The category of pointed topological spaces. Objects are spaces with a basepoint, morphisms preserve the basepoint.
Ch$_R$	The category of chain complexes of R-modules. Objects are chain complexes, morphisms are chain maps.
Sh(X)	The category of sheaves on a topological space X. Objects are sheaves, morphisms are sheaf morphisms.
Psh(C)	The category of presheaves on a category C. Objects are contravariant functors $C^{op} \to \mathbf{Set}$, morphisms are natural transformations.
Top/X	The category of spaces over X. Objects are continuous maps $E \to X$, morphisms are commuting triangles.
Set/I	The category of I-indexed families of sets. Objects are functions $A \to I$, morphisms are commuting triangles.
Fam(C)	The category of families of objects in C. Objects are functions $A \to \mathrm{Ob}(C)$, morphisms are families of morphisms in C.
Span(C)	The category of spans in C. Objects are those of C, morphisms are spans $X \leftarrow S \rightarrow Y$.
Rel	The category of sets and relations. Objects are sets, morphisms are relations. Self-dual.
Corel	The category of sets and corelations. Objects are sets, morphisms are partitions of their disjoint union.
Cospan(C)	The category of cospans in C. Objects are those of C, morphisms are cospans $X \rightarrow S \leftarrow Y$.
Bord$_n$	The category of n-dimensional bordisms. Objects are $(n-1)$-manifolds, morphisms are n-dimensional cobordisms between them.
Tang	The category of tangles. Objects are finite sets of points, morphisms are tangles connecting them.
Cob	The category of 2-dimensional cobordisms. Objects are 1-manifolds, morphisms are surfaces with boundary. Symmetric monoidal.

Figure 11.2: Unbounded Promises

Pos	The category of partially ordered sets and monotone maps. Objects are posets, morphisms are monotone functions. The forgetful functor to Set has a left adjoint.
$\mathbb{N}$	The poset of natural numbers with the usual ordering. Every bounded subset has a supremum.
$\mathbb{Z}$	The poset of integers with the usual ordering. Not bounded above or below.

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