schema.org

The Type Hierarchy

Here is the entire hierarchy in a single file.
Types that have multiple parents are expanded out only once and have an asterisk

DataType
- Boolean
- Date
- DateTime
- Number
  - Float
  - Integer
- Text
  - URL
- Time

Thing: additionalType, description, image, name, sameAs, url
- Class
- CreativeWork: about, accountablePerson, aggregateRating, alternativeHeadline, associatedMedia, audience, audio, author, award, awards, citation, comment, contentLocation, contentRating, contributor, copyrightHolder, copyrightYear, creator, dateCreated, dateModified, datePublished, discussionUrl, editor, educationalAlignment, educationalUse, encoding, encodings, genre, headline, inLanguage, interactionCount, interactivityType, isBasedOnUrl, isFamilyFriendly, keywords, learningResourceType, mentions, offers, provider, publisher, publishingPrinciples, review, reviews, sourceOrganization, text, thumbnailUrl, timeRequired, typicalAgeRange, version, video
  - Article: articleBody, articleSection, wordCount
    - BlogPosting
    - NewsArticle: dateline, printColumn, printEdition, printPage, printSection
    - ScholarlyArticle
      - MedicalScholarlyArticle: publicationType
    - TechArticle: dependencies, proficiencyLevel
      - APIReference: assembly, assemblyVersion, programmingModel, targetPlatform
  - Blog: blogPost, blogPosts
  - Book: bookEdition, bookFormat, illustrator, isbn, numberOfPages

Code: codeRepository, programmingLanguage, runtime, sampleType, targetProduct

Comment

DataCatalog: dataset

Dataset: catalog, distribution, spatial, temporal

Diet: dietFeatures, endorsers, expertConsiderations, overview, physiologicalBenefits, proprietaryName, risks

ExercisePlan: activityDuration, activityFrequency, additionalVariable, exerciseType, intensity, repetitions, restPeriods, workload

ItemList: itemListElement, itemListOrder

Map

MediaObject: associatedArticle, bitrate, contentSize, contentUrl, duration, embedUrl, encodesCreativeWork, encodingFormat, expires, height, interactionCount, offers, playerType, regionsAllowed, requiresSubscription, uploadDate, width

    AudioObject: transcript

    DataDownload

    ImageObject: caption, exifData, representativeOfPage, thumbnail

    MusicVideoObject

    VideoObject: caption, productionCompany, thumbnail, transcript, videoFrameSize, videoQuality

Movie: actor, actors, director, duration, musicBy, producer, productionCompany, trailer

MusicPlaylist: numTracks, track, tracks

    MusicAlbum: byArtist

MusicRecording: byArtist, duration, inAlbum, inPlaylist

Painting

Photograph

Recipe: cookingMethod, cookTime, ingredients, nutrition, prepTime, recipeCategory, recipeCuisine, recipeInstructions, recipeYield, totalTime

Review: itemReviewed, reviewBody, reviewRating

Sculpture

SoftwareApplication: applicationCategory, applicationSubCategory, applicationSuite, countriesNotSupported, countriesSupported, device, downloadUrl, featureList, fileFormat, fileSize, installUrl, memoryRequirements, operatingSystem, permissions, processorRequirements, releaseNotes, requirements, screenshot, softwareVersion, storageRequirements

    MobileApplication: carrierRequirements

    WebApplication: browserRequirements

TVEpisode: actor, actors, director, episodeNumber, musicBy, partOfSeason, partOfTVSeries, producer, productionCompany, trailer

TVSeason: endDate, episode, episodes, numberOfEpisodes, partOfTVSeries, seasonNumber, startDate, trailer

TVSeries: actor, actors, director, endDate, episode, episodes, musicBy, numberOfEpisodes, producer, productionCompany, season, seasons, startDate, trailer

WebPage: breadcrumb, isPartOf, lastReviewed, mainContentOfPage, primaryImageOfPage, relatedLink, reviewedBy, significantLink, significantLinks, specialty

    AboutPage

    CheckoutPage

    CollectionPage

        ImageGallery

        VideoGallery

    ContactPage

ItemPage
MedicalWebPage: aspect
ProfilePage
SearchResultsPage
WebPageElement
SiteNavigationElement
Table
WPAdBlock
WPFooter
WPHeader
WPSideBar
Event: attendee, attendees, duration, endDate, location, offers, performer, performers, startDate,
subEvent, subEvents, superEvent
BusinessEvent
ChildrensEvent
ComedyEvent
DanceEvent
EducationEvent
Festival
FoodEvent
LiteraryEvent
MusicEvent
SaleEvent
SocialEvent
SportsEvent
TheaterEvent
UserInteraction
UserBlocks
UserCheckins
UserComments: commentText, commentTime, creator, discusses, replyToUrl
UserDownloads
UserLikes
UserPageVisits
UserPlays
UserPlusOnes
UserTweets
VisualArtsEvent
Intangible
AlignmentObject: alignmentType, educationalFramework, targetDescription, targetName,
targetUrl
Audience
EducationalAudience: educationalRole
MedicalAudience
PeopleAudience: healthCondition, suggestedGender, suggestedMaxAge,
suggestedMinAge
MedicalAudience[*]
ParentAudience: childMaxAge, childMinAge
Brand: logo

Demand: acceptedPaymentMethod, advanceBookingRequirement, availability, availabilityEnds,
    availabilityStarts, availableAtOrFrom, availableDeliveryMethod, businessFunction,
    deliveryLeadTime, eligibleCustomerType, eligibleDuration, eligibleQuantity, eligibleRegion,
    eligibleTransactionVolume, gtin13, gtin14, gtin8, includesObject, inventoryLevel,
    itemCondition, itemOffered, mpn, priceSpecification, seller, serialNumber, sku, validFrom,
    validThrough, warranty

Enumeration
        BookFormatType
        BusinessEntityType
        BusinessFunction
        DayOfWeek
        DeliveryMethod
                ParcelService
        ItemAvailability
        OfferItemCondition
        PaymentMethod
                CreditCard
        QualitativeValue: equal, greater, greaterOrEqual, lesser, lesserOrEqual, nonEqual,
            valueReference
        Specialty
                MedicalSpecialty
        WarrantyScope

JobPosting: baseSalary, benefits, datePosted, educationRequirements, employmentType,
    experienceRequirements, hiringOrganization, incentives, industry, jobLocation,
    occupationalCategory, qualifications, responsibilities, salaryCurrency, skills,
    specialCommitments, title, workHours

Language

Offer: acceptedPaymentMethod, addOn, advanceBookingRequirement, aggregateRating,
    availability, availabilityEnds, availabilityStarts, availableAtOrFrom, availableDeliveryMethod,
    businessFunction, category, deliveryLeadTime, eligibleCustomerType, eligibleDuration,
    eligibleQuantity, eligibleRegion, eligibleTransactionVolume, gtin13, gtin14, gtin8,
    includesObject, inventoryLevel, itemCondition, itemOffered, mpn, price, priceCurrency,
    priceSpecification, priceValidUntil, review, reviews, seller, serialNumber, sku, validFrom,
    validThrough, warranty
        AggregateOffer: highPrice, lowPrice, offerCount

Quantity
        Distance
        Duration
        Energy
        Mass

Rating: bestRating, ratingValue, worstRating
        AggregateRating: itemReviewed, ratingCount, reviewCount

StructuredValue
        ContactPoint: contactType, email, faxNumber, telephone
                PostalAddress: addressCountry, addressLocality, addressRegion, postalCode,
                    postOfficeBoxNumber, streetAddress
        GeoCoordinates: elevation, latitude, longitude
        GeoShape: box, circle, elevation, line, polygon

NutritionInformation: calories, carbohydrateContent, cholesterolContent, fatContent, fiberContent, proteinContent, saturatedFatContent, servingSize, sodiumContent, sugarContent, transFatContent, unsaturatedFatContent

OpeningHoursSpecification: closes, dayOfWeek, opens, validFrom, validThrough

OwnershipInfo: acquiredFrom, ownedFrom, ownedThrough, typeOfGood

PriceSpecification: eligibleQuantity, eligibleTransactionVolume, maxPrice, minPrice, price, priceCurrency, validFrom, validThrough, valueAddedTaxIncluded

DeliveryChargeSpecification: appliesToDeliveryMethod, eligibleRegion

PaymentChargeSpecification: appliesToDeliveryMethod, appliesToPaymentMethod

UnitPriceSpecification: billingIncrement, priceType, unitCode

QuantitativeValue: maxValue, minValue, unitCode, value, valueReference

TypeAndQuantityNode: amountOfThisGood, businessFunction, typeOfGood, unitCode

WarrantyPromise: durationOfWarranty, warrantyScope

MedicalEntity: alternateName, code, guideline, medicineSystem, recognizingAuthority, relevantSpecialty, study

AnatomicalStructure: associatedPathophysiology, bodyLocation, connectedTo, diagram, function, partOfSystem, relatedCondition, relatedTherapy, subStructure

Bone

BrainStructure

Joint: biomechnicalClass, functionalClass, structuralClass

Ligament

Muscle: action, antagonist, bloodSupply, insertion, nerve, origin

Nerve: branch, nerveMotor, sensoryUnit, sourcedFrom

Vessel

Artery: arterialBranch, source, supplyTo

LymphaticVessel: originatesFrom, regionDrained, runsTo

Vein: drainsTo, regionDrained, tributary

AnatomicalSystem: associatedPathophysiology, comprisedOf, relatedCondition, relatedStructure, relatedTherapy

MedicalCause: causeOf

MedicalCondition: associatedAnatomy, cause, differentialDiagnosis, epidemiology, expectedPrognosis, naturalProgression, pathophysiology, possibleComplication, possibleTreatment, primaryPrevention, riskFactor, secondaryPrevention, signOrSymptom, stage, subtype, typicalTest

InfectiousDisease: infectiousAgent, infectiousAgentClass, transmissionMethod

MedicalContraindication

MedicalDevice: adverseOutcome, contraindication, indication, postOp, preOp, procedure, purpose, seriousAdverseOutcome

MedicalGuideline: evidenceLevel, evidenceOrigin, guidelineDate, guidelineSubject

MedicalGuidelineContraindication

MedicalGuidelineRecommendation: recommendationStrength

MedicalIndication

ApprovedIndication

PreventionIndication

TreatmentIndication

MedicalIntangible

DDxElement: diagnosis, distinguishingSign

DoseSchedule: doseUnit, doseValue, frequency, targetPopulation
        MaximumDoseSchedule
        RecommendedDoseSchedule
        ReportedDoseSchedule
DrugCost: applicableLocation, costCategory, costCurrency, costOrigin, costPerUnit, drugUnit
DrugLegalStatus: applicableLocation
DrugStrength: activeIngredient, availableIn, strengthUnit, strengthValue
MedicalCode: codeValue, codingSystem
MedicalConditionStage: stageAsNumber, subStageSuffix
MedicalEnumeration
        DrugCostCategory
        DrugPregnancyCategory
        DrugPrescriptionStatus
        InfectiousAgentClass
        MedicalAudience[*]
        MedicalDevicePurpose
        MedicalEvidenceLevel
        MedicalImagingTechnique
        MedicalObservationalStudyDesign
        MedicalProcedureType
        MedicalSpecialty[*]
        MedicalStudyStatus
        MedicalTrialDesign
        MedicineSystem
        PhysicalActivityCategory
        PhysicalExam
MedicalProcedure: followup, howPerformed, preparation, procedureType
        DiagnosticProcedure
        PalliativeProcedure
        TherapeuticProcedure
MedicalRiskEstimator: estimatesRiskOf, includedRiskFactor
        MedicalRiskCalculator
        MedicalRiskScore: algorithm
MedicalRiskFactor: increasesRiskOf
MedicalSignOrSymptom: cause, possibleTreatment
        MedicalSign: identifyingExam, identifyingTest
        MedicalSymptom
MedicalStudy: outcome, population, sponsor, status, studyLocation, studySubject
        MedicalObservationalStudy: studyDesign
        MedicalTrial: phase, trialDesign
MedicalTest: affectedBy, normalRange, signDetected, usedToDiagnose, usesDevice
        BloodTest
        DiagnosticProcedure[*]
        ImagingTest: imagingTechnique
        MedicalTestPanel: subTest
        PathologyTest: tissueSample

MedicalTherapy: adverseOutcome, contraindication, duplicateTherapy, indication,
     seriousAdverseOutcome
         DietarySupplement: activeIngredient, background, dosageForm, isProprietary,
             legalStatus, manufacturer, maximumIntake, mechanismOfAction,
             nonProprietaryName, recommendedIntake, safetyConsideration, targetPopulation
         Drug: activeIngredient, administrationRoute, alcoholWarning, availableStrength,
             breastfeedingWarning, clincalPharmacology, cost, dosageForm, doseSchedule,
             drugClass, foodWarning, interactingDrug, isAvailableGenerically, isProprietary,
             labelDetails, legalStatus, manufacturer, mechanismOfAction, nonProprietaryName,
             overdosage, pregnancyCategory, pregnancyWarning, prescribingInfo,
             prescriptionStatus, relatedDrug, warning
         DrugClass: drug
         LifestyleModification
             Diet[*]
             PhysicalActivity: associatedAnatomy, category, epidemiology, pathophysiology
                 ExercisePlan[*]
         PalliativeProcedure[*]
         PhysicalTherapy
         PsychologicalTreatment
         RadiationTherapy
         TherapeuticProcedure[*]
     SuperficialAnatomy: associatedPathophysiology, relatedAnatomy, relatedCondition,
         relatedTherapy, significance
Organization: address, aggregateRating, brand, contactPoint, contactPoints, duns, email, employee,
     employees, event, events, faxNumber, founder, founders, foundingDate, globalLocationNumber,
     hasPOS, interactionCount, isicV4, legalName, location, logo, makesOffer, member, members,
     naics, owns, review, reviews, seeks, taxID, telephone, vatID
     Corporation: tickerSymbol
     EducationalOrganization: alumni
         CollegeOrUniversity
         ElementarySchool
         HighSchool
         MiddleSchool
         Preschool
         School
     GovernmentOrganization
     LocalBusiness: branchOf, currenciesAccepted, openingHours, paymentAccepted, priceRange
         AnimalShelter
         AutomotiveBusiness
             AutoBodyShop
             AutoDealer
             AutoPartsStore
             AutoRental
             AutoRepair
             AutoWash
             GasStation
             MotorcycleDealer
             MotorcycleRepair
         ChildCare

DryCleaningOrLaundry
EmergencyService
    FireStation
    Hospital: availableService, medicalSpecialty
    PoliceStation
EmploymentAgency
EntertainmentBusiness
    AdultEntertainment
    AmusementPark
    ArtGallery
    Casino
    ComedyClub
    MovieTheater
    NightClub
FinancialService
    AccountingService
    AutomatedTeller
    BankOrCreditUnion
    InsuranceAgency
FoodEstablishment: acceptsReservations, menu, servesCuisine
    Bakery
    BarOrPub
    Brewery
    CafeOrCoffeeShop
    FastFoodRestaurant
    IceCreamShop
    Restaurant
    Winery
GovernmentOffice
    PostOffice
HealthAndBeautyBusiness
    BeautySalon
    DaySpa
    HairSalon
    HealthClub
    NailSalon
    TattooParlor
HomeAndConstructionBusiness
    Electrician
    GeneralContractor
    HVACBusiness
    HousePainter
    Locksmith
    MovingCompany
    Plumber
    RoofingContractor
InternetCafe
Library

LodgingBusiness
  BedAndBreakfast
  Hostel
  Hotel
  Motel
MedicalOrganization
  Dentist
  DiagnosticLab: availableTest
  Hospital*
  MedicalClinic: availableService, medicalSpecialty
  Optician
  Pharmacy
  Physician: availableService, hospitalAffiliation, medicalSpecialty
  VeterinaryCare
ProfessionalService
  AccountingService*
  Attorney
  Dentist*
  Electrician*
  GeneralContractor*
  HousePainter*
  Locksmith*
  Notary
  Plumber*
  RoofingContractor*
RadioStation
RealEstateAgent
RecyclingCenter
SelfStorage
ShoppingCenter
SportsActivityLocation
  BowlingAlley
  ExerciseGym
  GolfCourse
  HealthClub*
  PublicSwimmingPool
  SkiResort
  SportsClub
  StadiumOrArena
  TennisComplex
Store
  AutoPartsStore*
  BikeStore
  BookStore
  ClothingStore
  ComputerStore
  ConvenienceStore
  DepartmentStore

ElectronicsStore
Florist
FurnitureStore
GardenStore
GroceryStore
HardwareStore
HobbyShop
HomeGoodsStore
JewelryStore
LiquorStore
MensClothingStore
MobilePhoneStore
MovieRentalStore
MusicStore
OfficeEquipmentStore
OutletStore
PawnShop
PetStore
ShoeStore
SportingGoodsStore
TireShop
ToyStore
WholesaleStore
TelevisionStation
TouristInformationCenter
TravelAgency
NGO
PerformingGroup
DanceGroup
MusicGroup: album, albums, musicGroupMember, track, tracks
TheaterGroup
SportsTeam
Person: additionalName, address, affiliation, alumniOf, award, awards, birthDate, brand, children, colleague, colleagues, contactPoint, contactPoints, deathDate, duns, email, familyName, faxNumber, follows, gender, givenName, globalLocationNumber, hasPOS, homeLocation, honorificPrefix, honorificSuffix, interactionCount, isicV4, jobTitle, knows, makesOffer, memberOf, naics, nationality, owns, parent, parents, performerIn, relatedTo, seeks, sibling, siblings, spouse, taxID, telephone, vatID, workLocation, worksFor
Place: address, aggregateRating, containedIn, event, events, faxNumber, geo, globalLocationNumber, interactionCount, isicV4, logo, map, maps, openingHoursSpecification, photo, photos, review, reviews, telephone
AdministrativeArea
City
Country
State
CivicStructure: openingHours
Airport
Aquarium
Beach
BusStation

- BusStop
- Campground
- Cemetery
- Crematorium
- EventVenue
- FireStation[*]
- GovernmentBuilding
    - CityHall
    - Courthouse
    - DefenceEstablishment
    - Embassy
    - LegislativeBuilding
- Hospital[*]
- MovieTheater[*]
- Museum
- MusicVenue
- Park
- ParkingFacility
- PerformingArtsTheater
- PlaceOfWorship
    - BuddhistTemple
    - CatholicChurch
    - Church
    - HinduTemple
    - Mosque
    - Synagogue
- Playground
- PoliceStation[*]
- RVPark
- StadiumOrArena[*]
- SubwayStation
- TaxiStand
- TrainStation
- Zoo
- Landform
    - BodyOfWater
        - Canal
        - LakeBodyOfWater
        - OceanBodyOfWater
        - Pond
        - Reservoir
        - RiverBodyOfWater
        - SeaBodyOfWater
        - Waterfall
    - Continent
    - Mountain
    - Volcano
- LandmarksOrHistoricalBuildings

LocalBusiness[*]
- AnimalShelter
- AutomotiveBusiness
  - AutoBodyShop
  - AutoDealer
  - AutoPartsStore[*]
  - AutoRental
  - AutoRepair
  - AutoWash
  - GasStation
  - MotorcycleDealer
  - MotorcycleRepair
- ChildCare
- DryCleaningOrLaundry
- EmergencyService
  - FireStation[*]
  - Hospital[*]
  - PoliceStation[*]
- EmploymentAgency
- EntertainmentBusiness
  - AdultEntertainment
  - AmusementPark
  - ArtGallery
  - Casino
  - ComedyClub
  - MovieTheater[*]
  - NightClub
- FinancialService
  - AccountingService[*]
  - AutomatedTeller
  - BankOrCreditUnion
  - InsuranceAgency
- FoodEstablishment
  - Bakery
  - BarOrPub
  - Brewery
  - CafeOrCoffeeShop
  - FastFoodRestaurant
  - IceCreamShop
  - Restaurant
  - Winery
- GovernmentOffice
  - PostOffice
- HealthAndBeautyBusiness
  - BeautySalon
  - DaySpa
  - HairSalon
  - HealthClub[*]

HealthClub*
PublicSwimmingPool
SkiResort
SportsClub
StadiumOrArena*
TennisComplex
Store
AutoPartsStore*
BikeStore
BookStore
ClothingStore
ComputerStore
ConvenienceStore
DepartmentStore
ElectronicsStore
Florist
FurnitureStore
GardenStore
GroceryStore
HardwareStore
HobbyShop
HomeGoodsStore
JewelryStore
LiquorStore
MensClothingStore
MobilePhoneStore
MovieRentalStore
MusicStore
OfficeEquipmentStore
OutletStore
PawnShop
PetStore
ShoeStore
SportingGoodsStore
TireShop
ToyStore
WholesaleStore
TelevisionStation
TouristInformationCenter
TravelAgency
Residence
ApartmentComplex
GatedResidenceCommunity
SingleFamilyResidence
TouristAttraction
Product: aggregateRating, audience, brand, color, depth, gtin13, gtin14, gtin8, height,
isAccessoryOrSparePartFor, isConsumableFor, isRelatedTo, isSimilarTo, itemCondition, logo,
manufacturer, model, mpn, offers, productID, releaseDate, review, reviews, sku, weight, width
IndividualProduct: serialNumber

ProductModel: isVariantOf, predecessorOf, successorOf
SomeProducts: inventoryLevel
Property: domainIncludes, rangeIncludes

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