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Home S

Schemas

Documentation

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 Bo

Boolean

Date

DateTime

Number

Float

Integer

Text

URL

Time

Thing: additionalType, description, image, name, url

CreativeWork: about, accountablePerson, aggregateRating, alternativeHeadline, associatedMedia, audience, audio, author, award, awards, comment, contentLocation, contentRating, contributor, copyrightHolder, copyrightYear, creator, dateCreated, dateModified, datePublished, discussionUrl, editor, encoding, encodings, genre, headline, inLanguage, interactionCount, isFamilyFriendly, keywords, mentions, offers, provider, publisher, publishingPrinciples, review, reviews, sourceOrganization, text, thumbnailUrl, version, video

Article: articleBody, articleSection, wordCount

BlogPosting

NewsArticle: dateline, printColumn, printEdition, printPage, printSection

ScholarlyArticle

MedicalScholarlyArticle: citation, publicationType

Blog: blogPost, blogPosts

Book: bookEdition, bookFormat, illustrator, isbn, numberOfPages

Comment

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

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

Audience

MedicalAudience

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,

 $price,\ price Currency,\ valid From,\ valid Through,\ value Added Tax Included$

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

 $\underline{\textbf{Anatomical Structure}}: associated Pathophysiology, body Location, connected To, diagram,$

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,

 $signOr Symptom,\ stage,\ subtype,\ typical Test$

 ${\bf Infectious Disease:}\ infectious Agent,\ infectious Agent Class,\ transmission Method$

MedicalContraindication

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

purpose, seriousAdverseOutcome

MedicalGuideline: evidenceLevel, evidenceOrigin, guidelineDate, guidelineSubject

MedicalGuidelineContraindication

MedicalGuidelineRecommendation: recommendationStrength

MedicalIndication

Approved Indication

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

DrugPregnancy Category

DrugPrescriptionStatus

InfectiousAgentClass

MedicalAudience[®]

MedicalDevicePurpose

MedicalEvidenceLevel

MedicalImagingTechnique

Medical Observational Study Design

MedicalProcedureType

Medical Specialty "

MedicalStudyStatus

MedicalTrialDesign

MedicineSystem

PhysicalActivityCategory

PhysicalExam

MedicalProcedure: followup, howPerformed, preparation, procedureType

DiagnosticProcedure

PalliativeProcedure

TherapeuticProcedure

MedicalRiskEstimator: estimatesRiskOf, includedRiskFactor

Medical Risk Calculator

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
             Diagnostic Procedure 2
             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** Home And Construction BusinessElectrician GeneralContractor **HVACBusiness** HousePainter

```
Locksmith
       MovingCompany
       Plumber
       RoofingContractor
InternetCafe
Library
LodgingBusiness
       BedAndBreak fast\\
       Hostel
       Hotel
       Motel
MedicalOrganization
       Dentist
       DiagnosticLab: availableTest
       Hospital<sup>*</sup>
       MedicalClinic: availableService, medicalSpecialty
       Optician
       Pharmacy
       Physician: availableService, hospitalAffiliation, medicalSpecialty
       VeterinaryCare
ProfessionalService
       AccountingService <sup>®</sup>
       Attorney
       Dentist<sup>*</sup>
       Electrician<sup>®</sup>
       GeneralContractor*
       HousePainter<sup>1</sup>
       Locksmith
       Notary
       Plumber
       RoofingContractor <sup>®</sup>
RadioStation
RealEstateAgent
RecyclingCenter
SelfStorage
ShoppingCenter
SportsActivityLocation
       BowlingAlley
       ExerciseGym
       GolfCourse
       HealthClub<sup>®</sup>
       PublicSwimmingPool
       SkiResort
       SportsClub
       StadiumOrArena
       TennisComplex
Store
       AutoPartsStore<sup>*</sup>
       BikeStore
       BookStore
       ClothingStore
```

ComputerStore

ConvenienceStore

DepartmentStore

ElectronicsStore

Florist

FurnitureStore

GardenStore

GroceryStore

HardwareStore

HobbyShop

Home Goods Store

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 <sup>1</sup>
       GovernmentBuilding
              CityHall
              Courthouse
              DefenceEstablishment
              Embassy
              LegislativeBuilding
       Hospital<sup>*</sup>
       MovieTheater<sup>*</sup>
       Museum
       MusicVenue
       Park
       ParkingFacility
       Performing Arts Theater \\
       PlaceOfWorship
              Buddhist Temple\\
              CatholicChurch
              Church
              HinduTemple
              Mosque
              Synagogue
       Playground
       PoliceStation*
       RVPark
       StadiumOrArena<sup>*</sup>
       SubwayStation
       TaxiStand
       TrainStation
       Zoo
Landform
       BodyOfWater
              Canal
              LakeBodyOfWater
              OceanBodyOfWater
              Pond
              Reservoir
              RiverBodyOfWater
              SeaBodyOfWater
              Waterfall
       Continent
       Mountain
       Volcano
Land marks Or Historical Buildings\\
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 AccountingService³ AutomatedTeller Bank Or Credit UnionInsuranceAgency FoodEstablishment **Bakery** BarOrPub **Brewery** CafeOrCoffeeShop FastFoodRestaurant IceCreamShop Restaurant Winery GovernmentOffice **PostOffice** HealthAndBeautyBusiness BeautySalon DaySpa HairSalon HealthClub^{*} NailSalon **TattooParlor** Home And Construction BusinessElectrician **

11 sur 13 25/11/2012 05:53

GeneralContractor*

HVACBusiness HousePainter^{*} Locksmith^{*} MovingCompany Plumber* RoofingContractor* InternetCafe Library LodgingBusiness BedAndBreakfast Hostel Hotel Motel MedicalOrganization Dentist* Diagnostic LabHospital^{*} MedicalClinic Optician Pharmacy Physician VeterinaryCare ProfessionalService AccountingService * Attorney Dentist Electrician* GeneralContractor* HousePainter¹ Locksmith³ **Notary** Plumber^{*} RoofingContractor* RadioStation RealEstateAgent RecyclingCenter SelfStorage ShoppingCenter SportsActivityLocation BowlingAlley ExerciseGym GolfCourse HealthClub^{*} PublicSwimmingPool SkiResort SportsClub StadiumOrArena* Tennis Complex

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

Tour ist Information Center

TravelAgency

Residence

ApartmentComplex

GatedResidenceCommunity

SingleFamilyResidence

TouristAttraction

Product: aggregateRating, 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

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