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# 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, url

#### Class

CreativeWork: about, accountablePerson, aggregateRating, alternativeHeadline, associatedMedia, audience, audio, author, award, awards, 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: citation, publicationType
       TechArticle: dependencies, proficiencyLevel
              APIReference: assembly, assembly Version, programming Model, target Platform
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,
          videoOuality
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

<u>NutritionInformation</u>: calories, carbohydrateContent, cholesterolContent, fatContent, fiberContent, proteinContent, saturatedFatContent, servingSize, sodiumContent, sugarContent, transFatContent, unsaturatedFatContent

 ${\color{blue} \textbf{OpeningHoursSpecification}: closes, day Of Week, opens, valid From, valid Through}$ 

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 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 DDxElement: diagnosis, distinguishingSign

MedicalIntangible

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

Infectious Agent Class

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

 ${\bf Medical Sign Or Symptom:\ cause,\ possible Treatment}$ 

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

<u>Drug</u>: 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 Business\\
      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

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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
             Sea Body Of Water \\
             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

AccountingService\*

AutomatedTeller

BankOrCreditUnion

InsuranceAgency

## FoodEstablishment

**Bakery** 

BarOrPub

**Brewery** 

CafeOrCoffeeShop

FastFoodRestaurant

IceCreamShop

Restaurant

Winery

## GovernmentOffice

PostOffice

## HealthAndBeautyBusiness

BeautySalon

DaySpa

HairSalon

HealthClub\*

NailSalon

TattooParlor

## Home And Construction Business

Electrician\*

 ${\sf GeneralContractor}^*$ 

**HVACBusiness** 

HousePainter\*

Locksmith\*

MovingCompany

Plumber\*

 $Roofing Contractor^{\ast}$ 

InternetCafe

Library

LodgingBusiness

BedAndBreakfast

Hostel

Hotel

Motel

MedicalOrganization

Dentist\*

DiagnosticLab

Hospital\*

MedicalClinic

Optician

**Pharmacy** 

Physician

VeterinaryCare

ProfessionalService

AccountingService\*

Attorney

Dentist\*

Electrician\*

GeneralContractor\*

HousePainter\*

Locksmith\*

**Notary** 

Plumber\*

\_\_\_\_

RoofingContractor\*

RadioStation

RealEstateAgent

Recycling Center

SelfStorage

ShoppingCenter

Sports Activity Location

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

Home Goods Store

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, reviews, reviews, sku, weight, width

IndividualProduct: serialNumber

ProductModel: isVariantOf, predecessorOf, successorOf

SomeProducts: inventoryLevel Property: domainIncludes, rangeIncludes

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