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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
- **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

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

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

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

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

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[*]

employees, event, events, taxNumber, 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

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[*]

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

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

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

          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

    HomeAndConstructionBusiness

          Electrician[*]

          GeneralContractor[*]

          HVACBusiness

          HousePainter[*]

          Locksmith[*]

          MovingCompany

          Plumber[*]

          RoofingContractor[*]

    InternetCafe

    Library

    LodgingBusiness

          BedAndBreakfast

          Hostel

          Hotel

          Motel

    MedicalOrganization

          Dentist[*]

          DiagnosticLab

          Hospital[*]

Physician

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

MovieRentalStore
MusicStore
OfficeEquipmentStore
OutletStore
PawnShop
PetStore
ShoeStore
SportingGoodsStore
TireShop
ToyStore
WholesaleStore
TelevisionStation
TouristInformationCenter
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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