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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
- Enumeration
  - BookFormatType
  - ItemAvailability
  - OfferItemCondition
  - Specialty
    - MedicalSpecialty
- JobPosting: baseSalary, benefits, datePosted, educationRequirements, employmentType, experienceRequirements, hiringOrganization, incentives, industry, jobLocation, occupationalCategory, qualifications, responsibilities, salaryCurrency, skills, specialCommitments, title, workHours
- Language
- Offer: aggregateRating, availability, itemCondition, itemOffered, price, priceCurrency, priceValidUntil, review, reviews, seller
  - AggregateOffer: highPrice, lowPrice, offerCount
- Quantity
  - Distance
  - Duration
  - Energy
  - Mass

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

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

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

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, contactPoint, contactPoints, email, employee, employees, event, events, faxNumber, founder, founders, foundingDate, interactionCount, location, member, members, review, reviews, telephone

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

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

         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

MobileHomeStore
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, children, colleague, colleagues, contactPoint, contactPoints, deathDate, email, familyName, faxNumber, follows, gender, givenName, homeLocation, honorificPrefix, honorificSuffix, interactionCount, jobTitle, knows, memberOf, nationality, parent, parents, performerIn, relatedTo, sibling, siblings, spouse, telephone, workLocation, worksFor
Place: address, aggregateRating, containedIn, event, events, faxNumber, geo, interactionCount, map, maps, photo, photos, review, reviews, telephone
AdministrativeArea
City
Country
State
CivicStructure: openingHours
Airport
Aquarium
Beach
BusStation
BusStop
Campground
Cemetery
Crematorium
EventVenue
FireStation*
GovernmentBuilding
CityHall
Courthouse

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

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

HomeAndConstructionBusiness

    Electrician[*]

    GeneralContractor[*]

    HVACBusiness

    HousePainter[*]

    Locksmith[*]

    MovingCompany

    Plumber[*]

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

RecyclingCenter

SelfStorage

ShoppingCenter

SportsActivityLocation

BowlingAlley

ExerciseGym

GolfCourse

HealthClub[*]

PublicSwimmingPool

SkiResort

SportsClub

StadiumOrArena[*]

TennisComplex

Store

AutoPartsStore[*]

BikeStore

BookStore

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, brand, manufacturer, model, offers, productID, review, reviews

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