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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
       Number
              Float
              Integer
       Text
              URL

Thing: 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: cookTime, cookingMethod, 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
- 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
- Rating: bestRating, ratingValue, worstRating
  - AggregateRating: itemReviewed, ratingCount, reviewCount

StructuredValue
    ContactPoint: contactType, email, faxNumber, telephone
        PostalAddress: addressCountry, addressLocality, addressRegion,
           postOfficeBoxNumber, postalCode, 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
        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, 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

    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, 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
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[*]
    NailSalon
    TattooParlor
HomeAndConstructionBusiness
    Electrician[*]
    GeneralContractor[*]
    HVACBusiness
    HousePainter[*]
    Locksmith[*]
    MovingCompany
    Plumber[*]
    RoofingContractor[*]
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

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
Residence
ApartmentComplex
GatedResidenceCommunity
SingleFamilyResidence
TouristAttraction
Product: aggregateRating, brand, manufacturer, model, offers, productID, review, reviews

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