


[Home](#)
[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

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, contentType, 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

	<u>WPHeader</u>
	<u>WPSideBar</u>
<u>Event</u> :	attendee, attendees, duration, endDate, location, offers, performer, performers, startDate, subEvent, subEvents, superEvent
	<u>BusinessEvent</u>
	<u>ChildrensEvent</u>
	<u>ComedyEvent</u>
	<u>DanceEvent</u>
	<u>EducationEvent</u>
	<u>Festival</u>
	<u>FoodEvent</u>
	<u>LiteraryEvent</u>
	<u>MusicEvent</u>
	<u>SaleEvent</u>
	<u>SocialEvent</u>
	<u>SportsEvent</u>
	<u>TheaterEvent</u>
	<u>UserInteraction</u>
	<u>UserBlocks</u>
	<u>UserCheckins</u>
	<u>UserComments</u> : commentText, commentTime, creator, discusses, replyToUrl
	<u>UserDownloads</u>
	<u>UserLikes</u>
	<u>UserPageVisits</u>
	<u>UserPlays</u>
	<u>UserPlusOnes</u>
	<u>UserTweets</u>
	<u>VisualArtsEvent</u>
<u>Intangible</u>	
	<u>Audience</u>
	<u>MedicalAudience</u>
	<u>Enumeration</u>
	<u>BookFormatType</u>
	<u>ItemAvailability</u>
	<u>OfferItemCondition</u>
	<u>Specialty</u>
	<u>MedicalSpecialty</u>
<u>JobPosting</u> :	baseSalary, benefits, datePosted, educationRequirements, employmentType, experienceRequirements, hiringOrganization, incentives, industry, jobLocation, occupationalCategory, qualifications, responsibilities, salaryCurrency, skills, specialCommitments, title, workHours
	<u>Language</u>
<u>Offer</u> :	aggregateRating, availability, itemCondition, itemOffered, price, priceCurrency, priceValidUntil, review, reviews, seller
	<u>AggregateOffer</u> : highPrice, lowPrice, offerCount
<u>Quantity</u>	
	<u>Distance</u>
	<u>Duration</u>
	<u>Energy</u>
	<u>Mass</u>

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: biomechanicalClass, 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, clinicalPharmacology, cost, dosageForm, doseSchedule, drugClass, foodWarning, interactingDrug, isAvailableGenerically, isProprietary, labelDetails, legalStatus, manufacturer, mechanismOfAction, nonProprietaryName, overdose, 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

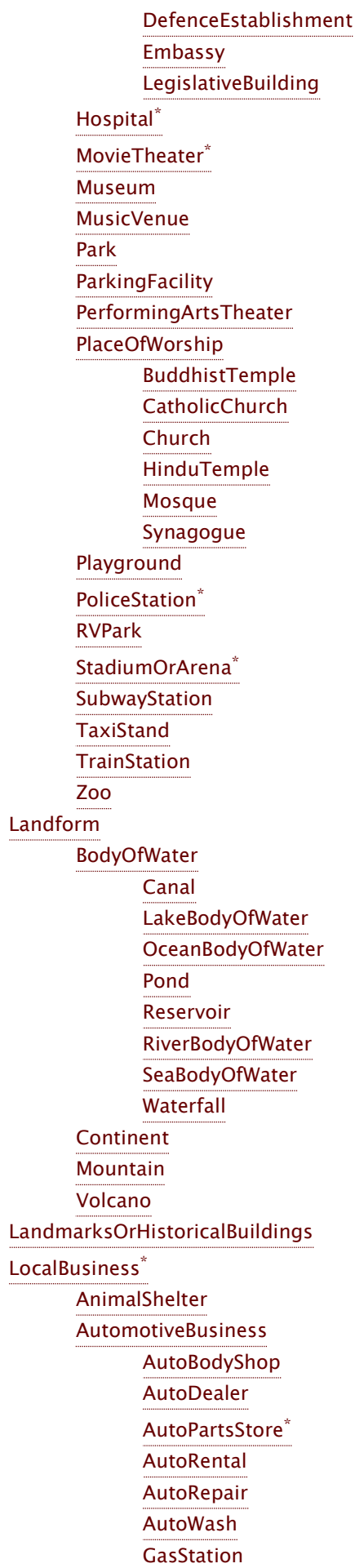
PoliceStation

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

	<u>JewelryStore</u>
	<u>LiquorStore</u>
	<u>MensClothingStore</u>
	<u>MobilePhoneStore</u>
	<u>MovieRentalStore</u>
	<u>MusicStore</u>
	<u>OfficeEquipmentStore</u>
	<u>OutletStore</u>
	<u>PawnShop</u>
	<u>PetStore</u>
	<u>ShoeStore</u>
	<u>SportingGoodsStore</u>
	<u>TireShop</u>
	<u>ToyStore</u>
	<u>WholesaleStore</u>
	<u>TelevisionStation</u>
	<u>TouristInformationCenter</u>
	<u>TravelAgency</u>
<u>NGO</u>	
<u>PerformingGroup</u>	
	<u>DanceGroup</u>
	<u>MusicGroup</u> : album, albums, musicGroupMember, track, tracks
	<u>TheaterGroup</u>
<u>SportsTeam</u>	
<u>Person</u>	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
<u>Place</u>	address, aggregateRating, containedIn, event, events, faxNumber, geo, interactionCount, map, maps, photo, photos, review, reviews, telephone
<u>AdministrativeArea</u>	
	<u>City</u>
	<u>Country</u>
	<u>State</u>
<u>CivicStructure</u>	openingHours
	<u>Airport</u>
	<u>Aquarium</u>
	<u>Beach</u>
	<u>BusStation</u>
	<u>BusStop</u>
	<u>Campground</u>
	<u>Cemetery</u>
	<u>Crematorium</u>
	<u>EventVenue</u>
	<u>FireStation</u> *
	<u>GovernmentBuilding</u>
	<u>CityHall</u>
	<u>Courthouse</u>



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

[Terms and conditions](#)