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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, 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

Blog: blogPost, blogPosts

Book: bookEdition, bookFormat, illustrator, isbn, numberOfPages

Comment

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, mainContentOfPage, primaryImageOfPage, significantLink, significantLinks

AboutPage

CheckoutPage

CollectionPage

ImageGallery

VideoGallery

ContactPage

ItemPage

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

<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>Enumeration</u>	
<u>BookFormatType</u>	
<u>ItemAvailability</u>	
<u>OfferItemCondition</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>	
<u>Rating</u>	bestRating, ratingValue, worstRating
<u>AggregateRating</u>	itemReviewed, ratingCount, reviewCount
<u>StructuredValue</u>	
<u>ContactPoint</u>	contactType, email, faxNumber, telephone
<u>PostalAddress</u>	addressCountry, addressLocality, addressRegion, postOfficeBoxNumber, postalCode, streetAddress
<u>GeoCoordinates</u>	elevation, latitude, longitude
<u>GeoShape</u>	box, circle, elevation, line, polygon
<u>NutritionInformation</u>	calories, carbohydrateContent, cholesterolContent, fatContent, fiberContent, proteinContent, saturatedFatContent, servingSize, sodiumContent, sugarContent, transFatContent, unsaturatedFatContent

**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**

**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  
Hospital\*  
MedicalClinic  
Optician  
Pharmacy  
Physician  
VeterinaryCare  
ProfessionalService  
AccountingService\*  
Attorney  
Dentist\*  
Electrician\*  
GeneralContractor\*  
HousePainter\*  
Locksmith\*  
Notary  
Plumber\*  
RoofingContractor\*  
RadioStation

	<a href="#">RealEstateAgent</a>
	<a href="#">RecyclingCenter</a>
	<a href="#">SelfStorage</a>
	<a href="#">ShoppingCenter</a>
	<a href="#">SportsActivityLocation</a>
	<a href="#">BowlingAlley</a>
	<a href="#">ExerciseGym</a>
	<a href="#">GolfCourse</a>
	<a href="#">HealthClub</a> *
	<a href="#">PublicSwimmingPool</a>
	<a href="#">SkiResort</a>
	<a href="#">SportsClub</a>
	<a href="#">StadiumOrArena</a>
	<a href="#">TennisComplex</a>
	<a href="#">Store</a>
	<a href="#">AutoPartsStore</a> *
	<a href="#">BikeStore</a>
	<a href="#">BookStore</a>
	<a href="#">ClothingStore</a>
	<a href="#">ComputerStore</a>
	<a href="#">ConvenienceStore</a>
	<a href="#">DepartmentStore</a>
	<a href="#">ElectronicsStore</a>
	<a href="#">Florist</a>
	<a href="#">FurnitureStore</a>
	<a href="#">GardenStore</a>
	<a href="#">GroceryStore</a>
	<a href="#">HardwareStore</a>
	<a href="#">HobbyShop</a>
	<a href="#">HomeGoodsStore</a>
	<a href="#">JewelryStore</a>
	<a href="#">LiquorStore</a>
	<a href="#">MensClothingStore</a>
	<a href="#">MobilePhoneStore</a>
	<a href="#">MovieRentalStore</a>
	<a href="#">MusicStore</a>
	<a href="#">OfficeEquipmentStore</a>
	<a href="#">OutletStore</a>
	<a href="#">PawnShop</a>
	<a href="#">PetStore</a>
	<a href="#">ShoeStore</a>
	<a href="#">SportingGoodsStore</a>
	<a href="#">TireShop</a>
	<a href="#">ToyStore</a>
	<a href="#">WholesaleStore</a>
	<a href="#">TelevisionStation</a>
	<a href="#">TouristInformationCenter</a>
	<a href="#">TravelAgency</a>
	<a href="#">NGO</a>

PerformingGroupDanceGroupMusicGroup: album, albums, musicGroupMember, track, tracksTheaterGroupSportsTeam

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

AdministrativeAreaCityCountryState

CivicStructure: openingHours

AirportAquariumBeachBusStationBusStopCampgroundCemeteryCrematoriumEventVenueFireStation\*GovernmentBuildingCityHallCourthouseDefenceEstablishmentEmbassyLegislativeBuildingHospital\*MovieTheater\*MuseumMusicVenueParkParkingFacilityPerformingArtsTheaterPlaceOfWorshipBuddhistTempleCatholicChurchChurchHinduTempleMosqueSynagoguePlaygroundPoliceStation\*

- [RVPark](#)
- [StadiumOrArena](#)\*
- [SubwayStation](#)
- [TaxiStand](#)
- [TrainStation](#)
- [Zoo](#)
- [Farm](#)
- [BodyOfWater](#)
  - [Canal](#)
  - [LakeBodyOfWater](#)
  - [OceanBodyOfWater](#)
  - [Pond](#)
  - [Reservoir](#)
  - [RiverBodyOfWater](#)
  - [SeaBodyOfWater](#)
  - [Waterfall](#)
- [Continent](#)
- [Mountain](#)
- [Volcano](#)
- [MarksOrHistoricalBuildings](#)
- [Business](#)
  - [AnimalShelter](#)
  - [AutomotiveBusiness](#)
    - [AutoBodyShop](#)
    - [AutoDealer](#)
    - [AutoPartsStore](#)\*
    - [AutoRental](#)
    - [AutoRepair](#)
    - [AutoWash](#)
    - [GasStation](#)
    - [MotorcycleDealer](#)
    - [MotorcycleRepair](#)
- [ChildCare](#)
- [DryCleaningOrLaundry](#)
- [EmergencyService](#)
  - [FireStation](#)\*
  - [Hospital](#)\*
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  - [MovieTheater](#)\*
  - [NightClub](#)



## FinancialService

AccountingService\*

AutomatedTeller

BankOrCreditUnion

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## FoodEstablishment

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## InternetCafe

## Library

## LodgingBusiness

BedAndBreakfast

Hostel

Hotel

Motel

## MedicalOrganization

Dentist\*

Hospital\*

MedicalClinic

Optician

Pharmacy

Physician

VeterinaryCare

## ProfessionalService

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Attorney

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HousePainter\*

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RecyclingCenter

SelfStorage

ShoppingCenter

SportsActivityLocation

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PublicSwimmingPool

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## Store

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GardenStore

GroceryStore

HardwareStore

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LiquorStore

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    - [WholesaleStore](#)
  - [TelevisionStation](#)
  - [TouristInformationCenter](#)
  - [TravelAgency](#)
- [Residence](#)
  - [ApartmentComplex](#)
  - [GatedResidenceCommunity](#)
  - [SingleFamilyResidence](#)
- [TouristAttraction](#)

**Product:** [aggregateRating](#), [brand](#), [manufacturer](#), [model](#), [offers](#), [productID](#), [review](#), [reviews](#)

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