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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, thumbnailUrl, version, video

Article: articleBody, articleSection, wordCount

BlogPosting

NewsArticle: dateline, printColumn, printEdition, printPage, printSection

ScholarlyArticle

Blog: blogPost, blogPosts

Book: bookEdition, bookFormat, illustrator, isbn, numberOfPages

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**

**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**

**EducationEvent**

**Festival**

**FoodEvent**

**LiteraryEvent**

**MusicEvent**

**SaleEvent**

**SocialEvent**

**SportsEvent**

<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
<u>Organization</u> : address, aggregateRating, contactPoint, contactPoints, email, employee, employees, event, events, faxNumber, founder, founders, foundingDate, interactionCount, location, member, members, review, reviews, telephone
<u>Corporation</u> : tickerSymbol
<u>EducationalOrganization</u> : alumni
<u>CollegeOrUniversity</u>
<u>ElementarySchool</u>
<u>HighSchool</u>
<u>MiddleSchool</u>

<u>Preschool</u>
<u>School</u>
<u>GovernmentOrganization</u>
<u>LocalBusiness</u> : <u>branchOf</u> , <u>currenciesAccepted</u> , <u>openingHours</u> , <u>paymentAccepted</u> , <u>priceRange</u>
<u>AnimalShelter</u>
<u>AutomotiveBusiness</u>
<u>AutoBodyShop</u>
<u>AutoDealer</u>
<u>AutoPartsStore</u>
<u>AutoRental</u>
<u>AutoRepair</u>
<u>AutoWash</u>
<u>GasStation</u>
<u>MotorcycleDealer</u>
<u>MotorcycleRepair</u>
<u>ChildCare</u>
<u>DryCleaningOrLaundry</u>
<u>EmergencyService</u>
<u>FireStation</u>
<u>Hospital</u>
<u>PoliceStation</u>
<u>EmploymentAgency</u>
<u>EntertainmentBusiness</u>
<u>AdultEntertainment</u>
<u>AmusementPark</u>
<u>ArtGallery</u>
<u>Casino</u>
<u>ComedyClub</u>
<u>MovieTheater</u>
<u>NightClub</u>
<u>FinancialService</u>
<u>AccountingService</u>
<u>AutomatedTeller</u>
<u>BankOrCreditUnion</u>
<u>InsuranceAgency</u>
<u>FoodEstablishment</u> : <u>acceptsReservations</u> , <u>menu</u> , <u>servesCuisine</u>
<u>Bakery</u>
<u>BarOrPub</u>
<u>Brewery</u>
<u>CafeOrCoffeeShop</u>
<u>FastFoodRestaurant</u>
<u>IceCreamShop</u>
<u>Restaurant</u>
<u>Winery</u>
<u>GovernmentOffice</u>
<u>PostOffice</u>
<u>HealthAndBeautyBusiness</u>
<u>BeautySalon</u>
<u>DaySpa</u>
<u>HairSalon</u>

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  - [NailSalon](#)
  - [TattooParlor](#)
- [HomeAndConstructionBusiness](#)
  - [Electrician](#)
  - [GeneralContractor](#)
  - [HVACBusiness](#)
  - [HousePainter](#)
  - [Locksmith](#)
  - [MovingCompany](#)
  - [Plumber](#)
  - [RoofingContractor](#)
- [InternetCafe](#)
- [Library](#)
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  - [BedAndBreakfast](#)
  - [Hostel](#)
  - [Hotel](#)
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- [MedicalOrganization](#)
  - [Dentist](#)
  - [Hospital<sup>\\*</sup>](#)
  - [MedicalClinic](#)
  - [Optician](#)
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- [ProfessionalService](#)
  - [AccountingService<sup>\\*</sup>](#)
  - [Attorney](#)
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  - [Electrician<sup>\\*</sup>](#)
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	<a href="#">PublicSwimmingPool</a>
	<a href="#">SkiResort</a>
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	<a href="#">StadiumOrArena</a>
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<a href="#">Store</a>	
	<a href="#">AutoPartsStore</a> *
	<a href="#">BikeStore</a>
	<a href="#">BookStore</a>
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	<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>
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	<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>	
	<a href="#">PerformingGroup</a>
	<a href="#">DanceGroup</a>
	<a href="#">MusicGroup</a> : album, albums, musicGroupMember, track, tracks
	<a href="#">TheaterGroup</a>
	<a href="#">SportsTeam</a>
<a href="#">Person</a>	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
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    - BarOrPub



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Motel

MedicalOrganization

Dentist\*

Hospital\*

MedicalClinic

Optician

Pharmacy

Physician

VeterinaryCare

ProfessionalService

AccountingService\*

Attorney

Dentist\*

Electrician\*

GeneralContractor\*

HousePainter\*

Locksmith\*

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[ToyStore](#)  
[WholesaleStore](#)

TelevisionStation

TouristInformationCenter

TravelAgency

Residence

ApartmentComplex

GatedResidenceCommunity

SingleFamilyResidence

TouristAttraction

Product: aggregateRating, brand, manufacturer, model, offers, productID, review, reviews

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