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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, awards, comment, contentLocation, contentRating, contributor, copyrightHolder, copyrightYear, creator, dateCreated, dateModified, datePublished, discussionUrl, editor, encodings, genre, headline, inLanguage, interactionCount, isFamilyFriendly, keywords, mentions, offers, provider, publisher, publishingPrinciples, reviews, sourceOrganization, thumbnailUrl, version, video

Article: articleBody, articleSection, wordCount

BlogPosting

NewsArticle: dateline, printColumn, printEdition, printPage, printSection

ScholarlyArticle

Blog: 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: actors, director, duration, musicBy, producer, productionCompany, trailer

MusicPlaylist: numTracks, 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: actors, director, episodeNumber, musicBy, partOfSeason, partOfTVSeries, producer, productionCompany, trailer

TVSeason: endDate, episodes, numberOfEpisodes, partOfTVSeries, seasonNumber, startDate, trailer

TVSeries: actors, director, endDate, episodes, musicBy, numberOfEpisodes, producer, productionCompany, seasons, startDate, trailer

WebPage: breadcrumb, isPartOf, mainContentOfPage, primaryImageOfPage, significantLinks

- AboutPage**
- CheckoutPage**
- CollectionPage**
 - ImageGallery**
 - VideoGallery**
- ContactPage**
- ItemPage**
- ProfilePage**
- SearchResultsPage**

WebPageElement

- SiteNavigationElement**
- Table**
- WPadBlock**
- WPFooter**
- WPHeader**
- WPSideBar**

Event: attendees, duration, endDate, location, offers, performers, startDate, subEvents, superEvent

- BusinessEvent**
- ChildrensEvent**
- ComedyEvent**
- DanceEvent**
- EducationEvent**
- Festival**
- FoodEvent**
- LiteraryEvent**
- MusicEvent**
- SaleEvent**
- SocialEvent**
- SportsEvent**
- TheaterEvent**

UserInteractionUserBlocksUserCheckinsUserComments: commentText, commentTime, creator, discusses, replyToUrlUserDownloadsUserLikesUserPageVisitsUserPlaysUserPlusOnesUserTweetsVisualArtsEventIntangibleEnumerationBookFormatTypeItemAvailabilityOfferItemConditionJobPosting: baseSalary, benefits, datePosted, educationRequirements, employmentType, experienceRequirements, hiringOrganization, incentives, industry, jobLocation, occupationalCategory, qualifications, responsibilities, salaryCurrency, skills, specialCommitments, title, workHoursLanguageOffer: aggregateRating, availability, itemCondition, itemOffered, price, priceCurrency, priceValidUntil, reviews, sellerAggregateOffer: highPrice, lowPrice, offerCountQuantityDistanceDurationEnergyMassRating: bestRating, ratingValue, worstRatingAggregateRating: itemReviewed, ratingCount, reviewCountStructuredValueContactPoint: contactType, email, faxNumber, telephonePostalAddress: addressCountry, addressLocality, addressRegion, postOfficeBoxNumber, postalCode, streetAddressGeoCoordinates: elevation, latitude, longitudeGeoShape: box, circle, elevation, line, polygonNutritionInformation: calories, carbohydrateContent, cholesterolContent, fatContent, fiberContent, proteinContent, saturatedFatContent, servingSize, sodiumContent, sugarContent, transFatContent, unsaturatedFatContentOrganization: address, aggregateRating, contactPoints, email, employees, events, faxNumber, founders, foundingDate, interactionCount, location, members, reviews, telephoneCorporation: tickerSymbolEducationalOrganization: alumniCollegeOrUniversityElementarySchoolHighSchoolMiddleSchoolPreschoolSchool

GovernmentOrganizationLocalBusiness: branchOf, currenciesAccepted, openingHours, paymentAccepted, priceRangeAnimalShelterAutomotiveBusinessAutoBodyShopAutoDealerAutoPartsStoreAutoRentalAutoRepairAutoWashGasStationMotorcycleDealerMotorcycleRepairChildCareDryCleaningOrLaundryEmergencyServiceFireStationHospitalPoliceStationEmploymentAgencyEntertainmentBusinessAdultEntertainmentAmusementParkArtGalleryCasinoComedyClubMovieTheaterNightClubFinancialServiceAccountingServiceAutomatedTellerBankOrCreditUnionInsuranceAgencyFoodEstablishment: acceptsReservations, menu, servesCuisineBakeryBarOrPubBreweryCafeOrCoffeeShopFastFoodRestaurantIceCreamShopRestaurantWineryGovernmentOfficePostOfficeHealthAndBeautyBusinessBeautySalonDaySpaHairSalonHealthClubNailSalon

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 : albums, musicGroupMember, tracks
	TheaterGroup
SportsTeam	
Person	additionalName, address, affiliation, alumniOf, awards, birthDate, children, colleagues, contactPoints, deathDate, email, familyName, faxNumber, follows, gender, givenName, homeLocation, honorificPrefix, honorificSuffix, interactionCount, jobTitle, knows, memberOf, nationality, parents, performerIn, relatedTo, siblings, spouse, telephone, workLocation, worksFor
Place	address, aggregateRating, containedIn, events, faxNumber, geo, interactionCount, maps, photos, reviews, telephone

AdministrativeAreaCityCountryStateCivicStructure: openingHoursAirportAquariumBeachBusStationBusStopCampgroundCemeteryCrematoriumEventVenueFireStation*GovernmentBuildingCityHallCourthouseDefenceEstablishmentEmbassyLegislativeBuildingHospital*MovieTheater*MuseumMusicVenueParkParkingFacilityPerformingArtsTheaterPlaceOfWorshipBuddhistTempleCatholicChurchChurchHinduTempleMosqueSynagoguePlaygroundPoliceStation*RVParkStadiumOrArena*SubwayStationTaxiStandTrainStationZooLandformBodyOfWaterCanalLakeBodyOfWaterOceanBodyOfWaterPond

Reservoir
RiverBodyOfWater
SeaBodyOfWater
Waterfall
Continent
Mountain
Volcano
arksOrHistoricalBuildings
usiness*
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*
 - Hospital*
 - MedicalClinic
 - Optician
 - Pharmacy
 - Physician
 - VeterinaryCare
- ProfessionalService
 - AccountingService*
 - Attorney
 - Dentist*
 - Electrician*
 - GeneralContractor*
 - HousePainter*
 - Locksmith*
 - Notary
 - Plumber*
 - RoofingContractor*
- RadioStation
- RealEstateAgent

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- [SelfStorage](#)
- [ShoppingCenter](#)
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 - [ExerciseGym](#)
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 - [ToyStore](#)
 - [WholesaleStore](#)
- [TelevisionStation](#)
- [TouristInformationCenter](#)
- [TravelAgency](#)

ResidenceApartmentComplexGatedResidenceCommunitySingleFamilyResidenceTouristAttractionProduct: aggregateRating, brand, manufacturer, model, offers, productID, reviews

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