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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**

UserInteraction

UserBlocks

UserCheckins

UserComments: commentText, commentTime, creator, discusses, replyToUrl

UserDownloads

UserLikes

UserPageVisits

UserPlays

UserPlusOnes

UserTweets

VisualArtsEvent

Intangible

Enumeration

BookFormatType

ItemAvailability

OfferItemCondition

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, 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

Organization: address, aggregateRating, contactPoints, email, employees, events, faxNumber, founders, foundingDate, interactionCount, location, members, 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

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

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

- 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

- [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](#)

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

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