

## 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: name, url, image, description

- |     | CreativeWork: encodings, associatedMedia, headline, alternativeHeadline, dateCreated
- |             dateModified, thumbnailUrl, discussionUrl, version, publishingPrinciples
- |             copyrightYear, comment, mentions, provider, contributor
- |             copyrightHolder, sourceOrganization, accountablePerson, editor, keywords
- |             about, datePublished, author, creator, contentRating
- |             inLanguage, audio, video, genre, editor
- |             awards, publisher, isFamilyFriendly, contentLocation, interactionCount
- |             aggregateRating, offers, reviews
- |     |     | Article: articleSection, articleBody, wordCount
- |     |     |     | BlogPosting
- |     |     |     | NewsArticle: dateline, printColumn, printEdition, printPage, printSection
- |     |     |     | ScholarlyArticle
- |     |     | Blog: blogPosts
- |     |     | Book: illustrator, bookEdition, bookFormat, numberOfPages, isbn
- |     |     | ItemList: itemListElement, itemListOrder
- |     |     | Map
- |     |     | MediaObject: encodesCreativeWork, width, height, regionsAllowed, embedURL
- |             bitrate, encodingFormat, playerType, duration, expires
- |             contentURL, requiresSubscription, uploadDate, associatedArticle, contentSize
- |             interactionCount, offers

		<a href="#">AudioObject</a> : transcript
		<a href="#">ImageObject</a> : thumbnail, representativeOfPage, caption, exifData
		<a href="#">MusicVideoObject</a>
		<a href="#">VideoObject</a> : thumbnail, transcript, productionCompany, caption, videoQuality videoFrameSize
	<a href="#">Movie</a> : duration, director, actors, producer, trailer productionCompany, musicBy	
	<a href="#">MusicPlaylist</a> : tracks, numTracks	
	<a href="#">MusicAlbum</a> : byArtist	
	<a href="#">MusicRecording</a> : duration, byArtist, inAlbum, inPlaylist	
	<a href="#">Painting</a>	
	<a href="#">Photograph</a>	
	<a href="#">Recipe</a> : prepTime, cookTime, cookingMethod, totalTime, nutrition ingredients, recipeInstructions, recipeYield, recipeCuisine, recipeCategory	
	<a href="#">Review</a> : reviewBody, itemReviewed, reviewRating	
	<a href="#">Sculpture</a>	
	<a href="#">TVEpisode</a> : director, actors, producer, trailer, productionCompany partOfTVSeries, partOfSeason, episodeNumber, musicBy	
	<a href="#">TVSeason</a> : trailer, episodes, partOfTVSeries, seasonNumber, numberOfEpisodes startDate, endDate	
	<a href="#">TVSeries</a> : director, actors, producer, trailer, productionCompany episodes, seasons, numberOfEpisodes, musicBy, startDate endDate	
	<a href="#">WebPage</a> : breadcrumb, mainContentOfPage, primaryImageOfPage, isPartOf, significantLinks	
	<a href="#">AboutPage</a>	
	<a href="#">CheckoutPage</a>	
	<a href="#">CollectionPage</a>	
	<a href="#">ImageGallery</a>	
	<a href="#">VideoGallery</a>	
	<a href="#">ContactPage</a>	
	<a href="#">ItemPage</a>	
	<a href="#">ProfilePage</a>	
	<a href="#">SearchResultsPage</a>	
	<a href="#">WebPageElement</a>	
	<a href="#">SiteNavigationElement</a>	
	<a href="#">Table</a>	
	<a href="#">WPadBlock</a>	
	<a href="#">WPFooter</a>	
	<a href="#">WPHeader</a>	
	<a href="#">WPSideBar</a>	
	<a href="#">Event</a> : duration, location, startDate, endDate, performers attendees, subEvents, superEvent, offers	
	<a href="#">BusinessEvent</a>	
	<a href="#">ChildrensEvent</a>	
	<a href="#">ComedyEvent</a>	
	<a href="#">DanceEvent</a>	
	<a href="#">EducationEvent</a>	
	<a href="#">Festival</a>	
	<a href="#">FoodEvent</a>	

	<a href="#">LiteraryEvent</a>
	<a href="#">MusicEvent</a>
	<a href="#">SaleEvent</a>
	<a href="#">SocialEvent</a>
	<a href="#">SportsEvent</a>
	<a href="#">TheaterEvent</a>
	<a href="#">UserInteraction</a>
	<a href="#">UserBlocks</a>
	<a href="#">UserCheckins</a>
	<a href="#">UserComments</a> : commentText, commentTime, replyToUrl, creator, discusses
	<a href="#">UserDownloads</a>
	<a href="#">UserLikes</a>
	<a href="#">UserPageVisits</a>
	<a href="#">UserPlays</a>
	<a href="#">UserPlusOnes</a>
	<a href="#">UserTweets</a>
	<a href="#">VisualArtsEvent</a>
<a href="#">Intangible</a>	
	<a href="#">Enumeration</a>
	<a href="#">BookFormatType</a>
	<a href="#">ItemAvailability</a>
	<a href="#">OfferItemCondition</a>
	<a href="#">Language</a>
	<a href="#">Offer</a> : aggregateRating, reviews, price, priceCurrency, priceValidUntil seller, itemCondition, availability, itemOffered
	<a href="#">AggregateOffer</a> : lowPrice, highPrice, offerCount
	<a href="#">Quantity</a>
	<a href="#">Distance</a>
	<a href="#">Duration</a>
	<a href="#">Energy</a>
	<a href="#">Mass</a>
	<a href="#">Rating</a> : bestRating, worstRating, ratingValue
	<a href="#">AggregateRating</a> : itemReviewed, ratingCount, reviewCount
	<a href="#">StructuredValue</a>
	<a href="#">ContactPoint</a> : email, telephone, faxNumber, contactType
	<a href="#">PostalAddress</a> : streetAddress, addressLocality, addressRegion, postalCode, postOfficeBoxNu addressCountry
	<a href="#">GeoCoordinates</a> : latitude, longitude, elevation
	<a href="#">GeoShape</a> : elevation, line, polygon, box, circle
	<a href="#">NutritionInformation</a> : servingSize, calories, fatContent, saturatedFatContent, unsaturatedFatConter transFatContent, carbohydrateContent, sugarContent, fiberContent, prot cholesterolContent, sodiumContent
	<a href="#">Organization</a> : interactionCount, location, employees, members, foundingDate founders, contactPoints, email, events, address telephone, faxNumber, aggregateRating, reviews
	<a href="#">Corporation</a> : tickerSymbol
	<a href="#">EducationalOrganization</a> : alumni
	<a href="#">CollegeOrUniversity</a>
	<a href="#">ElementarySchool</a>

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

			<a href="#">BeautySalon</a>
			<a href="#">DaySpa</a>
			<a href="#">HairSalon</a>
			<a href="#">HealthClub</a>
			<a href="#">NailSalon</a>
			<a href="#">TattooParlor</a>
		<a href="#">HomeAndConstructionBusiness</a>	
			<a href="#">Electrician</a>
			<a href="#">GeneralContractor</a>
			<a href="#">HVACBusiness</a>
			<a href="#">HousePainter</a>
			<a href="#">Locksmith</a>
			<a href="#">MovingCompany</a>
			<a href="#">Plumber</a>
			<a href="#">RoofingContractor</a>
		<a href="#">InternetCafe</a>	
		<a href="#">Library</a>	
		<a href="#">LodgingBusiness</a>	
			<a href="#">BedAndBreakfast</a>
			<a href="#">Hostel</a>
			<a href="#">Hotel</a>
			<a href="#">Motel</a>
		<a href="#">MedicalOrganization</a>	
			<a href="#">Dentist</a>
			<a href="#">Hospital</a> *
			<a href="#">MedicalClinic</a>
			<a href="#">Optician</a>
			<a href="#">Pharmacy</a>
			<a href="#">Physician</a>
			<a href="#">VeterinaryCare</a>
		<a href="#">ProfessionalService</a>	
			<a href="#">AccountingService</a> *
			<a href="#">Attorney</a>
			<a href="#">Dentist</a> *
			<a href="#">Electrician</a> *
			<a href="#">GeneralContractor</a> *
			<a href="#">HousePainter</a> *
			<a href="#">Locksmith</a> *
			<a href="#">Notary</a>
			<a href="#">Plumber</a> *
			<a href="#">RoofingContractor</a> *
		<a href="#">RadioStation</a>	
		<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>		
		<a href="#">PerformingGroup</a>		
			<a href="#">DanceGroup</a>	
			<a href="#">MusicGroup</a> :	musicGroupMember, tracks, albums
			<a href="#">TheaterGroup</a>	
		<a href="#">SportsTeam</a>		
	<a href="#">Person</a> :			awards, interactionCount, jobTitle, affiliation, worksFor

	additionalName, givenName, honorificPrefix, honorificSuffix, familyName
	alumniOf, memberOf, contactPoints, workLocation, homeLocation
	gender, email, birthDate, deathDate, nationality
	relatedTo, spouse, parents, children, siblings
	colleagues, knows, performerIn, follows, address
	telephone, faxNumber
	<b>Place:</b> interactionCount, containedIn, photos, geo, events
	maps, address, telephone, faxNumber, aggregateRating
	reviews
	<b><u>AdministrativeArea</u></b>
	<b><u>City</u></b>
	<b><u>Country</u></b>
	<b><u>State</u></b>
	<b><u>CivicStructure:</u></b> openingHours
	<b><u>Airport</u></b>
	<b><u>Aquarium</u></b>
	<b><u>Beach</u></b>
	<b><u>BusStation</u></b>
	<b><u>BusStop</u></b>
	<b><u>Campground</u></b>
	<b><u>Cemetery</u></b>
	<b><u>Crematorium</u></b>
	<b><u>EventVenue</u></b>
	<b><u>FireStation</u></b> *
	<b><u>GovernmentBuilding</u></b>
	<b><u>CityHall</u></b>
	<b><u>Courthouse</u></b>
	<b><u>DefenceEstablishment</u></b>
	<b><u>Embassy</u></b>
	<b><u>LegislativeBuilding</u></b>
	<b><u>Hospital</u></b> *
	<b><u>MovieTheater</u></b> *
	<b><u>Museum</u></b>
	<b><u>MusicVenue</u></b>
	<b><u>Park</u></b>
	<b><u>ParkingFacility</u></b>
	<b><u>PerformingArtsTheater</u></b>
	<b><u>PlaceOfWorship</u></b>
	<b><u>BuddhistTemple</u></b>
	<b><u>CatholicChurch</u></b>
	<b><u>Church</u></b>
	<b><u>HinduTemple</u></b>
	<b><u>Mosque</u></b>
	<b><u>Synagogue</u></b>
	<b><u>Playground</u></b>
	<b><u>PoliceStation</u></b> *
	<b><u>RVPark</u></b>
	<b><u>StadiumOrArena</u></b> *
	<b><u>SubwayStation</u></b>

			<u>TaxiStand</u>
			<u>TrainStation</u>
			<u>Zoo</u>
		<u>Landform</u>	
			<u>BodyOfWater</u>
			<u>Canal</u>
			<u>LakeBodyOfWater</u>
			<u>OceanBodyOfWater</u>
			<u>Pond</u>
			<u>Reservoir</u>
			<u>RiverBodyOfWater</u>
			<u>SeaBodyOfWater</u>
			<u>Waterfall</u>
			<u>Continent</u>
			<u>Mountain</u>
			<u>Volcano</u>
		<u>LandmarksOrHistoricalBuildings</u>	
		<u>LocalBusiness</u> *	
		<u>Residence</u>	
			<u>ApartmentComplex</u>
			<u>GatedResidenceCommunity</u>
			<u>SingleFamilyResidence</u>
		<u>TouristAttraction</u>	
	<u>Product</u> :	brand, aggregateRating, productID, manufacturer	
		offers, reviews	

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