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The Type Hierarchy

Here is the entire hierarchy in a single file.
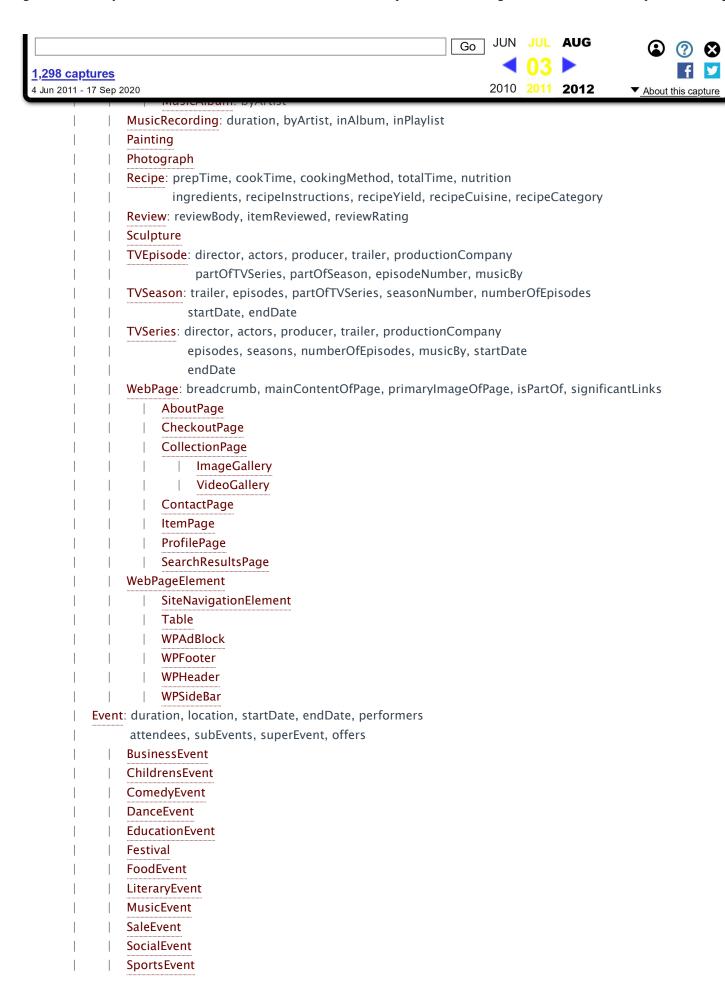Types that have multiple parents are expanded out only once and have an asterisk

DataType
   | Boolean
   | Date
   | Number
   | | Float
   | | Integer
   | Text
   | | URL

Thing: name, url, image, description
   | CreativeWork: encodings, headline, keywords, about, datePublished
   | author, contentRating, inLanguage, audio, video
   | genre, editor, awards, publisher, isFamilyFriendly
   | contentLocation, interactionCount, aggregateRating, offers, reviews
   | | Article: articleSection, articleBody
   | | | BlogPosting
   | | | NewsArticle
   | | | ScholarlyArticle
   | | Blog: blogPosts
   | | Book: illustrator, bookEdition, bookFormat, numberOfPages, isbn
   | | ItemList: itemListElement
   | | Map
   | | MediaObject: encodesCreativeWork, width, height, regionsAllowed, embedURL
   | | bitrate, encodingFormat, playerType, duration, expires
   | | contentURL, requiresSubscription, uploadDate, contentSize, interactionCount
   | | offers
   | | | AudioObject
   | | | ImageObject: thumbnail, representativeOfPage, caption, exifData
   | | | MusicVideoObject
   | | | VideoObject: thumbnail, productionCompany, caption, videoQuality, videoFrameSize

```
|   |       MusicAlbum: byArtist
|   | MusicRecording: duration, byArtist, inAlbum, inPlaylist
|   | Painting
|   | Photograph
|   | Recipe: prepTime, cookTime, cookingMethod, totalTime, nutrition
|   |        ingredients, recipeInstructions, recipeYield, recipeCuisine, recipeCategory
|   | Review: reviewBody, itemReviewed, reviewRating
|   | Sculpture
|   | TVEpisode: director, actors, producer, trailer, productionCompany
|   |            partOfTVSeries, partOfSeason, episodeNumber, musicBy
|   | TVSeason: trailer, episodes, partOfTVSeries, seasonNumber, numberOfEpisodes
|   |           startDate, endDate
|   | TVSeries: director, actors, producer, trailer, productionCompany
|   |           episodes, seasons, numberOfEpisodes, musicBy, startDate
|   |           endDate
|   | WebPage: breadcrumb, mainContentOfPage, primaryImageOfPage, isPartOf, significantLinks
|   |   |   AboutPage
|   |   |   CheckoutPage
|   |   |   CollectionPage
|   |   |   |   ImageGallery
|   |   |   |   VideoGallery
|   |   |   ContactPage
|   |   |   ItemPage
|   |   |   ProfilePage
|   |   |   SearchResultsPage
|   | WebPageElement
|   |   |   SiteNavigationElement
|   |   |   Table
|   |   |   WPAdBlock
|   |   |   WPFooter
|   |   |   WPHeader
|   |   |   WPSideBar
| Event: duration, location, startDate, endDate, performers
|        attendees, subEvents, superEvent, offers
|   | BusinessEvent
|   | ChildrensEvent
|   | ComedyEvent
|   | DanceEvent
|   | EducationEvent
|   | Festival
|   | FoodEvent
|   | LiteraryEvent
|   | MusicEvent
|   | SaleEvent
|   | SocialEvent
|   | SportsEvent
```

```
|   |      |   UserCheckins
|   |      |   UserComments
|   |      |   UserDownloads
|   |      |   UserLikes
|   |      |   UserPageVisits
|   |      |   UserPlays
|   |      |   UserPlusOnes
|   |      |   UserTweets
|   |   VisualArtsEvent
|   Intangible
|   |   Enumeration
|   |      |   BookFormatType
|   |      |   ItemAvailability
|   |      |   OfferItemCondition
|   |   Language
|   |   Offer: aggregateRating, reviews, price, priceCurrency, priceValidUntil
|   |           seller, itemCondition, availability, itemOffered
|   |      |   AggregateOffer: lowPrice, highPrice, offerCount
|   |   Quantity
|   |      |   Distance
|   |      |   Duration
|   |      |   Energy
|   |      |   Mass
|   |   Rating: bestRating, worstRating, ratingValue
|   |      |   AggregateRating: itemReviewed, ratingCount, reviewCount
|   |   StructuredValue
|   |      |   ContactPoint: email, telephone, faxNumber, contactType
|   |      |      |   PostalAddress: streetAddress, addressLocality, addressRegion, postalCode, postOfficeBoxNu
|   |      |      |                   addressCountry
|   |      |   GeoCoordinates: latitude, longitude, elevation
|   |      |   NutritionInformation: servingSize, calories, fatContent, saturatedFatContent, unsaturatedFatConter
|   |      |                           transFatContent, carbohydrateContent, sugarContent, fiberContent, prot
|   |      |                           cholesterolContent, sodiumContent
|   Organization: interactionCount, location, employees, members, foundingDate
|                   founders, contactPoints, email, events, address
|                   telephone, faxNumber, aggregateRating, reviews
|   |   Corporation
|   |   EducationalOrganization: alumni
|   |      |   CollegeOrUniversity
|   |      |   ElementarySchool
|   |      |   HighSchool
|   |      |   MiddleSchool
|   |      |   Preschool
|   |      |   School
|   |   GovernmentOrganization
|   |   LocalBusiness: branchOf, openingHours, paymentAccepted, currenciesAccepted, priceRange
```

```
|   |   |   |   | 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: menu, acceptsReservations, servesCuisine
|   |   |   |   | Bakery
|   |   |   |   | BarOrPub
|   |   |   |   | Brewery
|   |   |   |   | CafeOrCoffeeShop
|   |   |   |   | FastFoodRestaurant
|   |   |   |   | IceCreamShop
|   |   |   |   | Restaurant
|   |   |   |   | Winery
|   |   |   | GovernmentOffice
|   |   |   |   | PostOffice
|   |   |   | HealthAndBeautyBusiness
|   |   |   |   | BeautySalon
|   |   |   |   | DaySpa
|   |   |   |   | HairSalon
|   |   |   |   | HealthClub
|   |   |   |   | NailSalon
|   |   |   |   | TattooParlor
```

```
|   |   |   |   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
```

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

```
| | | 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
```

```
|     |     |     |     RiverBodyOfWater
|     |     |     |     SeaBodyOfWater
|     |     |     |     Waterfall
|     |     |     Continent
|     |     |     Mountain
|     |     |     Volcano
|     |     LandmarksOrHistoricalBuildings
|     |     LocalBusiness*
|     |     Residence
|     |     |     ApartmentComplex
|     |     |     GatedResidenceCommunity
|     |     |     SingleFamilyResidence
|     |     TouristAttraction
|     Product: brand, model, aggregateRating, productID, manufacturer
|                offers, reviews
```