# schema.org

Home Schemas Documentation

# 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

DateTime

Number

Float

Integer

Text

URL
```

Time

Thing: additionalType, alternateName, description, image, name, sameAs, url

Action: agent, endTime, instrument, location, object, participant, result, startTime

```
AchieveAction
      LoseAction: winner
      TieAction
      WinAction: loser
AssessAction
      ChooseAction: option
             VoteAction: candidate
      IgnoreAction
      ReactAction
             AgreeAction
             DisagreeAction
             DislikeAction
             EndorseAction: endorsee
             LikeAction
             WantAction
      ReviewAction: resultReview
```

▼ About this capture



CancelAction

ReserveAction: scheduledTime

ScheduleAction

PlayAction: audience, event

ExerciseAction: course, diet, distance, exercisePlan, exerciseType, fromLocation,

oponent, sportsActivityLocation, sportsEvent, sportsTeam, toLocation

PerformAction: entertainmentBusiness

SearchAction: query TradeAction: price

BuyAction: vendor, warrantyPromise

DonateAction: recipient

OrderAction

PayAction: purpose, recipient

QuoteAction

RentAction: landlord, realEstateAgent SellAction: buyer, warrantyPromise

TipAction: recipient

TransferAction: fromLocation, toLocation

BorrowAction: lender DownloadAction GiveAction: recipient LendAction: borrower

ReceiveAction: deliveryMethod, sender

ReturnAction: recipient

SendAction: deliveryMethod, recipient

**TakeAction** 

UpdateAction: collection

AddAction

InsertAction: toLocation AppendAction PrependAction

DeleteAction

ReplaceAction: replacee, replacer BroadcastService: area, broadcaster, parentService

Class

CreativeWork: about, accessibilityAPI, accessibilityControl, accessibilityFeature, accessibilityHazard, accountablePerson, aggregateRating, alternativeHeadline, associatedMedia, audience, audio, author, award, awards, citation, comment, contentLocation, contentRating, contributor, copyrightHolder, copyrightYear, creator, dateCreated, dateModified, datePublished, discussionUrl, editor, educationalAlignment, educationalUse, encoding, encodings, genre, headline, inLanguage, interactionCount, interactivityType, isBasedOnUrl, isFamilyFriendly, keywords, learningResourceType, mentions, offers, provider, publisher, publishingPrinciples, review, reviews, sourceOrganization, text, thumbnailUrl, timeRequired, typicalAgeRange, version, video

Article: articleBody, articleSection, wordCount

BlogPosting

NewsArticle: dateline, printColumn, printEdition, printPage, printSection

Blog: blogPost, blogPosts

Book: bookEdition, bookFormat, illustrator, isbn, numberOfPages

Clip: clipNumber, partOfEpisode, partOfSeason, partOfSeries, position, publication

RadioClip: partOfSeason, partOfSeries

TVClip: partOfSeason, partOfSeries, partOfTVSeries

Code: codeRepository, programmingLanguage, runtime, sampleType, targetProduct

Comment

DataCatalog: dataset

Dataset: catalog, distribution, spatial, temporal

Diet: dietFeatures, endorsers, expertConsiderations, overview, physiologicalBenefits, proprietaryName, risks

Episode: actor, actors, director, directors, episodeNumber, musicBy, partOfSeason, partOfSeries, position, producer, productionCompany, publication, trailer

RadioEpisode: actor, actors, director, directors, musicBy, partOfSeason, partOfSeries, producer, productionCompany, trailer

TVEpisode: actor, actors, director, directors, musicBy, partOfSeason, partOfSeries, partOfTVSeries, producer, productionCompany, trailer

ExercisePlan: activityDuration, activityFrequency, additionalVariable, exerciseType, intensity, repetitions, restPeriods, workload

ItemList: itemListElement, itemListOrder

Map

MediaObject: associatedArticle, bitrate, contentSize, contentUrl, duration, embedUrl, encodesCreativeWork, encodingFormat, expires, height, interactionCount, offers, playerType, productionCompany, publication, regionsAllowed, requiresSubscription, uploadDate, width

AudioObject: transcript

DataDownload

ImageObject: caption, exifData, representativeOfPage, thumbnail

MusicVideoObject

<u>VideoObject</u>: caption, productionCompany, thumbnail, transcript, videoFrameSize, videoQuality

Movie: actor, actors, director, directors, duration, musicBy, producer, productionCompany, trailer

MusicPlaylist: numTracks, track, tracks

MusicAlbum: byArtist

MusicRecording: byArtist, duration, inAlbum, inPlaylist

Painting Photograph

**Recipe**: cookingMethod, cookTime, ingredients, nutrition, prepTime, recipeCategory, recipeCuisine, recipeInstructions, recipeYield, totalTime

Review: itemReviewed, reviewBody, reviewRating

Sculpture

Season: endDate, episode, episodes, numberOfEpisodes, partOfSeries, position, producer, productionCompany, seasonNumber, startDate, trailer

RadioSeason: episode, episodes, numberOfEpisodes, partOfSeries, trailer

startDate, trailer

trailer

RadioSeries: actor, actors, director, directors, episode, episodes, musicBy, numberOfEpisodes, producer, productionCompany, season, seasons, trailer

TVSeries: actor, actors, director, directors, endDate, episode, episodes, musicBy, numberOfEpisodes, producer, productionCompany, season, seasons, startDate,

SoftwareApplication: applicationCategory, applicationSubCategory, applicationSuite, countriesNotSupported, countriesSupported, device, downloadUrl, featureList, fileFormat, fileSize, installUrl, memoryRequirements, operatingSystem, permissions, processorRequirements, releaseNotes, requirements, screenshot, softwareVersion, storageRequirements

MobileApplication: carrierRequirements WebApplication: browserRequirements

TVSeason\*

TVSeries\*

WebPage: breadcrumb, isPartOf, lastReviewed, mainContentOfPage, primaryImageOfPage, relatedLink, reviewedBy, significantLink, significantLinks, specialty

**AboutPage** 

CheckoutPage

CollectionPage

**ImageGallery** 

VideoGallery

ContactPage

. .

ItemPage

MedicalWebPage: aspect

**ProfilePage** 

SearchResultsPage

WebPageElement

SiteNavigationElement

**Table** 

WPAdBlock

**WPFooter** 

WPHeader

WPSideBar

Event: attendee, attendees, doorTime, duration, endDate, eventStatus, location, offers, performer, performers, previousStartDate, startDate, subEvent, subEvents, superEvent, typicalAgeRange

BusinessEvent

ChildrensEvent

ComedyEvent

DanceEvent

DeliveryEvent: accessCode, availableFrom, availableThrough, hasDeliveryMethod

EducationEvent

Festival

FoodEvent

LiteraryEvent

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EventStatusType ItemAvailability QualitativeValue: equal, greater, greaterOrEqual, lesser, lesserOrEqual, nonEqual,

valueReference

MedicalSpecialty

WarrantyScope

Specialty

JobPosting: baseSalary, benefits, datePosted, educationRequirements, employmentType, experienceRequirements, hiringOrganization, incentives, industry, jobLocation, occupationalCategory, qualifications, responsibilities, salaryCurrency, skills, specialCommitments, title, workHours

### Language

Offer: acceptedPaymentMethod, addOn, advanceBookingRequirement, aggregateRating, availability, availabilityEnds, availabilityStarts, availableAtOrFrom, availableDeliveryMethod, businessFunction, category, deliveryLeadTime, eligibleCustomerType, eligibleDuration, eligibleQuantity, eligibleRegion, eligibleTransactionVolume, gtin13, gtin14, gtin8, includesObject, inventoryLevel, itemCondition, itemOffered, mpn, price, priceCurrency, priceSpecification, priceValidUntil, review, reviews, seller, serialNumber, sku, validFrom, validThrough, warranty

AggregateOffer: highPrice, lowPrice, offerCount

Order: acceptedOffer, billingAddress, confirmationNumber, customer, discount, discountCode, discountCurrency, isGift, merchant, orderDate, orderedItem, orderNumber, orderStatus, paymentDue, paymentMethod, paymentMethodId, paymentUrl

ParcelDelivery: carrier, deliveryAddress, deliveryStatus, expectedArrivalFrom, expectedArrivalUntil, hasDeliveryMethod, itemShipped, originAddress, partOfOrder, trackingNumber, trackingUrl

Permit: issuedBy, issuedThrough, permitAudience, validFor, validFrom, validIn, validUntil

GovernmentPermit

### Quantity

Distance

Duration

Energy

Mass

Rating: bestRating, ratingValue, worstRating

AggregateRating: itemReviewed, ratingCount, reviewCount

Service: availableChannel, produces, provider, serviceArea, serviceAudience, serviceType

GovernmentService: serviceOperator

ServiceChannel: availableLanguage, processingTime, providesService, serviceLocation, servicePhone, servicePostalAddress, serviceSmsNumber, serviceUrl

#### StructuredValue

ContactPoint: areaServed, availableLanguage, contactOption, contactType, email, faxNumber, hoursAvailable, productSupported, telephone

PostalAddress: addressCountry, addressLocality, addressRegion, postalCode, postOfficeBoxNumber, streetAddress

GeoCoordinates: elevation, latitude, longitude GeoShape: box, circle, elevation, line, polygon

OwnershipInfo: acquiredFrom, ownedFrom, ownedThrough, typeOfGood

PriceSpecification: eligibleQuantity, eligibleTransactionVolume, maxPrice, minPrice,

price, priceCurrency, validFrom, validThrough, valueAddedTaxIncluded

DeliveryChargeSpecification: appliesToDeliveryMethod, eligibleRegion

PaymentChargeSpecification: appliesToDeliveryMethod,

appliesToPaymentMethod

UnitPriceSpecification: billingIncrement, priceType, unitCode

QuantitativeValue: maxValue, minValue, unitCode, value, valueReference

TypeAndQuantityNode: amountOfThisGood, businessFunction, typeOfGood, unitCode

WarrantyPromise: durationOfWarranty, warrantyScope

MedicalEntity: alternateName, code, guideline, medicineSystem, recognizingAuthority,

relevantSpecialty, study

AnatomicalStructure: associatedPathophysiology, bodyLocation, connectedTo, diagram,

function, partOfSystem, relatedCondition, relatedTherapy, subStructure

Bone

BrainStructure

Joint: biomechnicalClass, functionalClass, structuralClass

Ligament

Muscle: action, antagonist, bloodSupply, insertion, nerve, origin

Nerve: branch, nerveMotor, sensoryUnit, sourcedFrom

Vessel

Artery: arterialBranch, source, supplyTo

LymphaticVessel: originatesFrom, regionDrained, runsTo

Vein: drainsTo, regionDrained, tributary

AnatomicalSystem: associatedPathophysiology, comprisedOf, relatedCondition,

relatedStructure, relatedTherapy

MedicalCause: causeOf

MedicalCondition: associatedAnatomy, cause, differentialDiagnosis, epidemiology,

expectedPrognosis, naturalProgression, pathophysiology, possibleComplication,

possibleTreatment, primaryPrevention, riskFactor, secondaryPrevention, signOrSymptom,

stage, subtype, typicalTest

InfectiousDisease: infectiousAgent, infectiousAgentClass, transmissionMethod

MedicalContraindication

MedicalDevice: adverseOutcome, contraindication, indication, postOp, preOp, procedure,

purpose, seriousAdverseOutcome

MedicalGuideline: evidenceLevel, evidenceOrigin, guidelineDate, guidelineSubject

MedicalGuidelineContraindication

MedicalGuidelineRecommendation: recommendationStrength

MedicalIndication

ApprovedIndication

PreventionIndication

TreatmentIndication

MedicalIntangible

DDxElement: diagnosis, distinguishingSign

Reported Dosesened die

DrugCost: applicableLocation, costCategory, costCurrency, costOrigin, costPerUnit,

drugUnit

DrugLegalStatus: applicableLocation

DrugStrength: activeIngredient, availableIn, strengthUnit, strengthValue

MedicalCode: codeValue, codingSystem

MedicalConditionStage: stageAsNumber, subStageSuffix

MedicalEnumeration

DrugCostCategory

DrugPregnancyCategory DrugPrescriptionStatus

InfectiousAgentClass

MedicalAudience\*

MedicalDevicePurpose

MedicalEvidenceLevel

Medical Imaging Technique

Medical Observational Study Design

MedicalProcedureType

MedicalSpecialty\*

MedicalStudyStatus

Medical Trial Design

MedicineSystem

PhysicalActivityCategory

PhysicalExam

MedicalProcedure: followup, howPerformed, preparation, procedureType

DiagnosticProcedure

**PalliativeProcedure** 

TherapeuticProcedure

MedicalRiskEstimator: estimatesRiskOf, includedRiskFactor

MedicalRiskCalculator

MedicalRiskScore: algorithm
MedicalRiskFactor: increasesRiskOf

MedicalSignOrSymptom: cause, possibleTreatment

MedicalSign: identifyingExam, identifyingTest

MedicalSymptom

MedicalStudy: outcome, population, sponsor, status, studyLocation, studySubject

MedicalObservationalStudy: studyDesign

MedicalTrial: phase, trialDesign

MedicalTest: affectedBy, normalRange, signDetected, usedToDiagnose, usesDevice

BloodTest

DiagnosticProcedure\*

ImagingTest: imagingTechnique

MedicalTestPanel: subTest
PathologyTest: tissueSample

nonProprietaryName, recommendedIntake, safetyConsideration, targetPopulation Drug: activeIngredient, administrationRoute, alcoholWarning, availableStrength, breastfeedingWarning, clincalPharmacology, cost, dosageForm, doseSchedule,

drugClass, foodWarning, interactingDrug, isAvailableGenerically, isProprietary, labelDetails, legalStatus, manufacturer, mechanismOfAction, nonProprietaryName, overdosage, pregnancyCategory, pregnancyWarning, prescribingInfo,

prescriptionStatus, relatedDrug, warning

DrugClass: drug LifestyleModification

Diet\*

Physical Activity: associated Anatomy, category, epidemiology, pathophysiology

ExercisePlan\*

PalliativeProcedure\*

PhysicalTherapy

PsychologicalTreatment

RadiationTherapy

TherapeuticProcedure\*

SuperficialAnatomy: associatedPathophysiology, relatedAnatomy, relatedCondition, relatedTherapy, significance

Organization: address, aggregateRating, brand, contactPoint, contactPoints, department, duns, email, employee, employees, event, events, faxNumber, founder, founders, foundingDate, globalLocationNumber, hasPOS, interactionCount, isicV4, legalName, location, logo, makesOffer, member, members, naics, owns, review, reviews, seeks, subOrganization, taxID, telephone, vatID

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

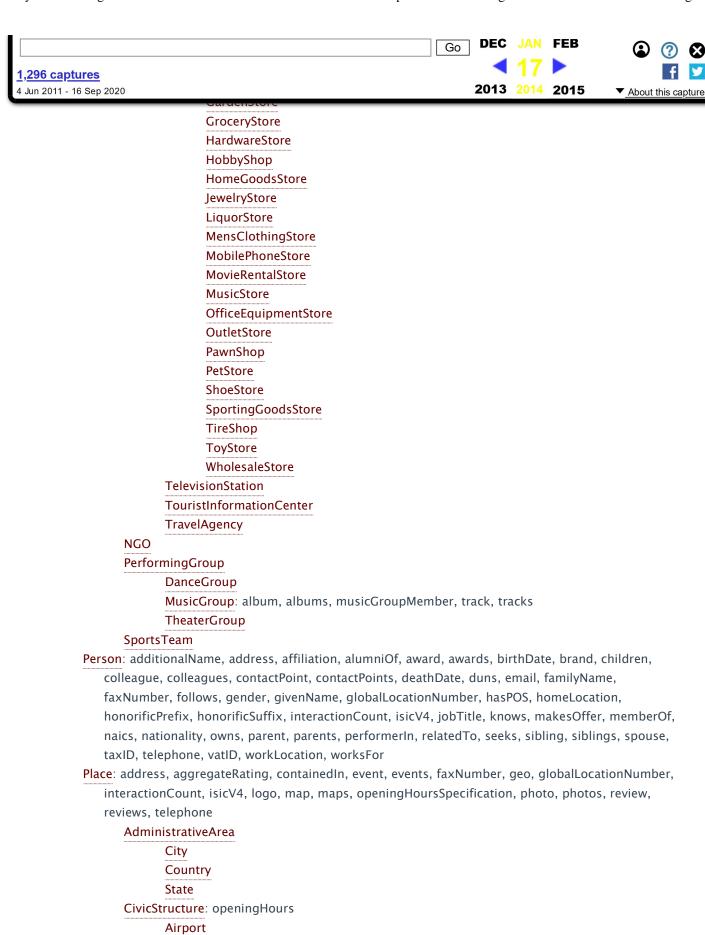
ChildCare

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▼ About this capture

▼ About this capture





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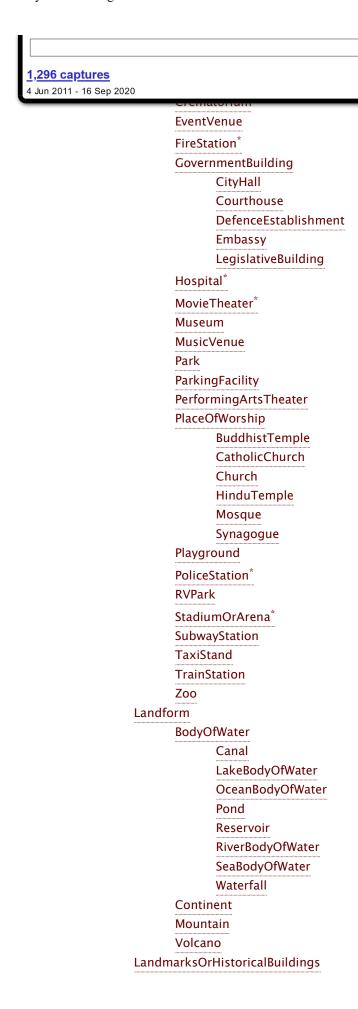
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Beach
BusStation

▼ About this capture

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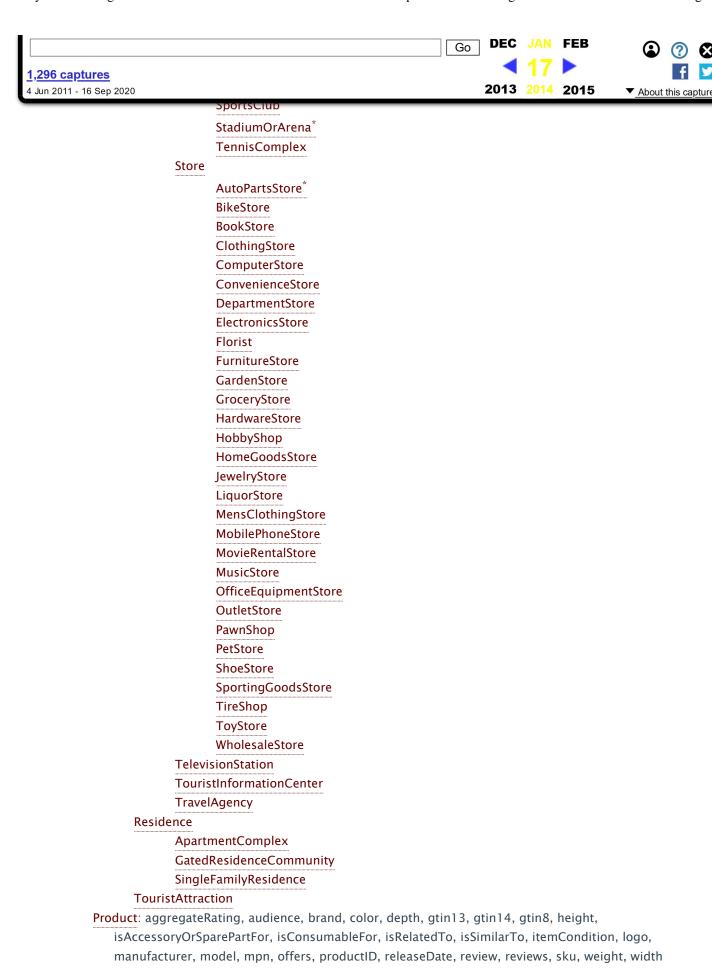
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