ITCatalog

IRI:
https://evilscript.altervista.org/productCatalog.owl

Date:
2021

Current version:
1.1 - Revised and annotated for ODP submission by Aldo Gangemi 1.0 - Created by Valentina Presutti and Sara Bernardini

Authors:
Federico Torrielli
Ivan Spada

Other visualisation:
Ontology source

Abstract

The collection entity pattern. It is extracted from DOLCE-UltraLite by partial clone of elements.

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Introduction

The "Simple IT Product Catalog" is a product management/catalog ontology to demonstrate a fairly simple product catalog and how a reasoner shoud work with Company nodes and devices. It could also be applied as a model for other companies product catalogs

Classes

(collections) Bag   2 in 1 p c   2in1   Accessory   BigEngineering   cable

(collections) Bag^c

IRI: http://www.ontologydesignpatterns.org/cp/owl/bag.owl#Bag

Bag - Collection that can have a number of copies of each object

has super-classes

[Collection](#)^c
[ProductCatalog](#)^c
catalog^c

has sub-classes

[list](#)^c

is in domain of

[has item](#)^{op}

is in range of

[item of](#)^{op}

has members

[AppleAccessories](#)ⁿⁱ, [AppleMobile](#)ⁿⁱ, [ApplePC](#)ⁿⁱ, [AsusPC](#)ⁿⁱ, [BeatsEarPlugs](#)ⁿⁱ, [SamsungAccessories](#)ⁿⁱ, [SamsungGalaxy](#)ⁿⁱ

is disjoint with

[item](#)^c, [list_item](#)^c, [headphones](#)^c, [laptop](#)^c, [loudspeaker](#)^c, [personal_computer](#)^c, [power_cable](#)^c, [smartphone](#)^c, [smartwatch](#)^c, [tablet_computer](#)^c, [2_in_1_p_c](#)^c, [housing_(engineering)](#)^c, [product_(business)](#)^c, [Accessory](#)^c, [cable](#)^c, [Computer](#)^c, [Cover](#)^c, [Device](#)^c, [EarPlugs](#)^c, [HardCover](#)^c, [Laptop](#)^c, [NotPortableDevice](#)^c, [PortableDevice](#)^c, [Product](#)^c, [product_high](#)^c, [product_low](#)^c, [product_medium](#)^c, [Smartphone](#)^c, [Smartwatch](#)^c, [SoftCover](#)^c, [Stereo](#)^c, [Tablet](#)^c, [2in1](#)^c

2 in 1 p c^c

IRI: http://www.productontology.org/id/2-in-1_PC

is equivalent to

[2in1](#)^c

has super-classes

[PortableDevice](#)^c

has members

[ZenBookFlip_S_UX371](#)ⁿⁱ

is disjoint with

(collections)_Bag^C, Collection^C, list^C, headphones^C, loudspeaker^C, personal computer^C, power_cable^C, smartphone^C, smartwatch^C, housing_(engineering)^C, Accessory^C, cable^C, Computer^C, Cover^C, EarPlugs^C, HardCover^C, NotPortableDevice^C, ProductCatalog^C, SellingCatalog^C, Smartphone^C, Smartwatch^C, SoftCover^C, Stereo^C, StockCatalog^C, catalog^C

2in1^C

IRI: https://evilscript.altervista.org/productCatalog.owl#2in1

A portable computer that has features of both tablets and laptops

has super-classes

PortableDevice^C

has members

ZenBookFlip_S_UX371ⁿⁱ

is disjoint with

(collections)_Bag^C, Collection^C, list^C, headphones^C, loudspeaker^C, personal computer^C, power_cable^C, smartphone^C, smartwatch^C, housing_(engineering)^C, Accessory^C, cable^C, Computer^C, Cover^C, EarPlugs^C, HardCover^C, NotPortableDevice^C, ProductCatalog^C, SellingCatalog^C, Smartphone^C, Smartwatch^C, SoftCover^C, Stereo^C, StockCatalog^C, catalog^C

Accessory[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#Accessory

A product used with or within the device use

has super-classes
> product (business)[C]
> Product[C]

has sub-classes
> Cover[C], EarPlugs[C], cable[C], headphones[C], housing (engineering)[C], power cable[C]

is in domain of
> inBoxOf[op]

is in range of
> containsInBox[op], putInBoxes[op]

has members
> AirPods_wirelessCharge[ni], Beats_cuffie[ni], Lightning_cable[ni], USBC_cable[ni]

is disjoint with
> (collections) Bag[C], Collection[C], list[C], laptop[C], loudspeaker[C], personal computer[C], smartphone[C], smartwatch[C], tablet computer[C], 2 in 1 p c[C], Computer[C], Device[C], Laptop[C], NotPortableDevice[C], PortableDevice[C], ProductCatalog[C], SellingCatalog[C], Smartphone[C], Smartwatch[C], Stereo[C], StockCatalog[C], Tablet[C], 2in1[C], catalog[C]

BigEngineering[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#BigEngineering

A part of the engineering process that is eventually bigger than the normal one

is equivalent to
> designs[op] **min** 3 Product[C]

has super-classes
> Engineering[C]

has members
> Foxconn[ni]

is disjoint with
> Factory[C]

cable[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#Cable

has super-classes
> Accessory[C]

has members

Lightning_cable[ni], USBC_cable[ni]

is disjoint with

(collections)_Bag[c], Collection[c], list[c], headphones[c], laptop[c], loudspeaker[c], personal_computer[c], smartphone[c], smartwatch[c], tablet_computer[c], 2_in_1_p_c[c], housing_(engineering)[c], Computer[c], Cover[c], Device[c], EarPlugs[c], HardCover[c], Laptop[c], NotPortableDevice[c], PortableDevice[c], ProductCatalog[c], SellingCatalog[c], Smartphone[c], Smartwatch[c], SoftCover[c], Stereo[c], StockCatalog[c], Tablet[c], 2in1[c], catalog[c]

CasualUser[c]

IRI: https://evilscript.altervista.org/productCatalog.owl#CasualUser

An individual using a product which is not used to technology

has super-classes

User[c]

is disjoint with

PowerUser[c]

Collection[c]

IRI: http://www.ontologydesignpatterns.org/cp/owl/collectionentity.owl#Collection

is defined by

http://www.ontologydesignpatterns.org/cp/owl/collectionentity.owl

Any container for entities that share one or more common properties. E.g. "stone objects", "the nurses", "the Louvre Aegyptian collection". A collection is not a logical class: a collection is a first-order entity, while a class is a second-order one.

is equivalent to

ProductCatalog[c]

has sub-classes

(collections)_Bag[c], SellingCatalog[c], StockCatalog[c]

is in domain of

has member[op], size[dp]

is in range of

is member of[op]

has members

AppleAccessories[ni], AppleCatalog[ni], AppleMobile[ni], ApplePC[ni], AsusCatalog[ni], AsusPC[ni], BeatsEarPlugs[ni], SamsungAccessories[ni], SamsungCatalog[ni], SamsungGalaxy[ni]

is disjoint with

item[c], list_item[c], headphones[c], laptop[c], loudspeaker[c], personal_computer[c], power_cable[c], smartphone[c], smartwatch[c], tablet_computer[c], 2_in_1_p_c[c], housing_(engineering)[c], product_(business)[c], Accessory[c], cable[c], Computer[c], Cover[c], Device[c], EarPlugs[c], HardCover[c], Laptop[c], NotPortableDevice[c],

PortableDevice^C, Product^C, product_high^C, product_low^C, product_medium^C, Smartphone^C, Smartwatch^C, SoftCover^C, Stereo^C, Tablet^C, 2in1^C

Company^C

IRI: https://evilscript.altervista.org/productCatalog.owl#Company

The company that has the project, the engineering process and the manifacturing to produce the product

has super-classes
organization^C

has sub-classes
Manufacturer^C

is in domain of
brandContainedIn^{op}, collabsWith^{op}, hasCatalog^{op}, isBrandOf^{op}, manufacturersTo^{op}, putInBoxes^{op}, sells^{op}

is in range of
collabsWith^{op}, containsBrand^{op}, hasBrand^{op}, inCollabWith^{op}, isManufacturerOf^{op}, soldBy^{op}

has members
Apple^{ni}, Asus^{ni}, BeatsAudio^{ni}, Foxconn^{ni}, Huáshuò^{ni}, Nike^{ni}, Qualcomm^{ni}, Samsung^{ni}, ShortEngineer^{ni}, ShortFactory^{ni}

Computer^C

IRI: https://evilscript.altervista.org/productCatalog.owl#Computer

Just a computer

has super-classes
NotPortableDevice^C

has members
iMac_27_RetinaDisplay_5k_256^{ni}

is disjoint with
(collections)_Bag^C, Collection^C, list^C, headphones^C, laptop^C, loudspeaker^C, power_cable^C, smartphone^C, smartwatch^C, tablet_computer^C, 2_in_1_p_c^C, housing_(engineering)^C, Accessory^C, cable^C, Cover^C, EarPlugs^C, HardCover^C, Laptop^C, PortableDevice^C, ProductCatalog^C, SellingCatalog^C, Smartphone^C, Smartwatch^C, SoftCover^C, Stereo^C, StockCatalog^C, Tablet^C, 2in1^C, catalog^C

Cover^C

IRI: https://evilscript.altervista.org/productCatalog.owl#Cover

A product made for protecting a device from accidental falls

has super-classes
Accessory[C]

has sub-classes
HardCover[C], SoftCover[C]

is in domain of
fitFor[op]

is disjoint with
(collections)_Bag[C], Collection[C], list[C], headphones[C], laptop[C], loudspeaker[C], personal_computer[C], power_cable[C], smartphone[C], smartwatch[C], tablet computer[C], 2_in_1_p_c[C], cable[C], Computer[C], Device[C], EarPlugs[C], Laptop[C], NotPortableDevice[C], PortableDevice[C], ProductCatalog[C], SellingCatalog[C], Smartphone[C], Smartwatch[C], Stereo[C], StockCatalog[C], Tablet[C], 2in1[C], catalog[C]

Currency[C]

IRI: http://www.ontologydesignpatterns.org/cp/owl/price.owl#Currency

is defined by
http://www.ontologydesignpatterns.org/cp/owl/price.owl

A system of money in general use in a particular country.

is in range of
has currency[op]

has members
Euro[ni]

is disjoint with
Price[C]

Device[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#Device

An electronic product

has super-classes
product (business)[C]
Product[C]

has sub-classes
NotPortableDevice[C], PortableDevice[C]

is in range of
compatibleWith[op]

has members
AppleWatchSeries6_40mm_GPS_Cellular[ni], MacBookAir_M1[ni], SamsungGalaxyS10_global[ni], SamsungGalaxyS20_5G_global[ni], ZenBookFlip_S_UX371[ni], iMac_27_RetinaDisplay_5k_256[ni], iPadAir_2020[ni], iPhone11_64[ni], iPhone12_64[ni], iPhoneX_64[ni]

is disjoint with
(collections)_Bag^C, Collection^C, list^C, headphones^C, power_cable^C, housing_(engineering)^C, Accessory^C, cable^C, Cover^C, EarPlugs^C, HardCover^C, ProductCatalog^C, SellingCatalog^C, SoftCover^C, StockCatalog^C, catalog^C

EarPlugs^C

IRI: https://evilscript.altervista.org/productCatalog.owl#EarPlugs

A small accessory device made for listening to music

has super-classes
Accessory^C

has members
AirPods_wirelessChargeⁿⁱ, Beats_cuffieⁿⁱ

is disjoint with
(collections)_Bag^C, Collection^C, list^C, laptop^C, loudspeaker^C, personal computer^C, power_cable^C, smartphone^C, smartwatch^C, tablet computer^C, 2 in 1 pc^C, housing_(engineering)^C, cable^C, Computer^C, Cover^C, Device^C, HardCover^C, Laptop^C, NotPortableDevice^C, PortableDevice^C, ProductCatalog^C, SellingCatalog^C, Smartphone^C, Smartwatch^C, SoftCover^C, Stereo^C, StockCatalog^C, Tablet^C, 2in1^C, catalog^C

Engineering^C

IRI: https://evilscript.altervista.org/productCatalog.owl#Engineering

The part of the Manufacturer process that creates the design of the product

is equivalent to
designs^{op} **some** Product^C

has super-classes
Manufacturer^C

has sub-classes
BigEngineering^C, ITEngineering^C

is in domain of
designs^{op}, hasProducer^{op}

is in range of
designedBy^{op}

has members
Asusⁿⁱ, BeatsAudioⁿⁱ, Foxconnⁿⁱ, ShortEngineerⁿⁱ

is disjoint with
Factory^C

Factory^C

IRI: https://evilscript.altervista.org/productCatalog.owl#Factory

The part of the Manufactorer process that phisically produces the product

is equivalent to
produces^{op} **some** Product^C

has super-classes
Manufacturer^C

is in domain of
produces^{op}

is in range of
hasProducer^{op}, producedBy^{op}

has members
Huáshuòⁿⁱ, Qualcommⁿⁱ, ShortFactoryⁿⁱ

is disjoint with
BigEngineering^C, Engineering^C, ITEngineering^C

HardCover^C

IRI: https://evilscript.altervista.org/productCatalog.owl#HardCover

An hard cover

has super-classes
housing (engineering)^C
Cover^C

is disjoint with
(collections) Bag^C, Collection^C, list^C, headphones^C, laptop^C, loudspeaker^C, personal computer^C, power cable^C, smartphone^C, smartwatch^C, tablet computer^C, 2 in 1 p c^C, cable^C, Computer^C, Device^C, EarPlugs^C, Laptop^C, NotPortableDevice^C, PortableDevice^C, ProductCatalog^C, SellingCatalog^C, Smartphone^C, Smartwatch^C, SoftCover^C, Stereo^C, StockCatalog^C, Tablet^C, 2in1^C, catalog^C

headphones^C

IRI: http://www.productontology.org/id/Headphones

is equivalent to
EarPlugs^C

has super-classes
Accessory^C

has members
AirPods_wirelessChargeⁿⁱ, Beats_cuffieⁿⁱ

is disjoint with
(collections) Bag^C, Collection^C, list^C, laptop^C, loudspeaker^C, personal computer^C, power cable^C, smartphone^C, smartwatch^C, tablet computer^C, 2 in 1 p

c^c, housing (engineering)^c, cable^c, Computer^c, Cover^c, Device^c, HardCover^c, Laptop^c, NotPortableDevice^c, PortableDevice^c, ProductCatalog^c, SellingCatalog^c, Smartphone^c, Smartwatch^c, SoftCover^c, Stereo^c, StockCatalog^c, Tablet^c, 2in1^c, catalog^c

housing (engineering)^c

IRI: http://www.productontology.org/id/Housing_(engineering)

is equivalent to
> Cover^c

has super-classes
> Accessory^c

has sub-classes
> HardCover^c, SoftCover^c

is disjoint with
> (collections)_Bag^c, Collection^c, list^c, headphones^c, laptop^c, loudspeaker^c, personal_computer^c, power_cable^c, smartphone^c, smartwatch^c, tablet_computer^c, 2_in_1_p_c^c, cable^c, Computer^c, Device^c, EarPlugs^c, Laptop^c, NotPortableDevice^c, PortableDevice^c, ProductCatalog^c, SellingCatalog^c, Smartphone^c, Smartwatch^c, Stereo^c, StockCatalog^c, Tablet^c, 2in1^c, catalog^c

item^c

IRI: http://www.ontologydesignpatterns.org/cp/owl/bag.owl#Item

Item - Element belonging to a Bag

has super-classes
> thing^c
> item content^{op} **exactly** 1

has sub-classes
> list item^c

is in domain of
> item content^{op}, item of^{op}

is in range of
> has item^{op}

has members
> AirPods_wirelessCharge^{ni}, AppleWatchSeries6_40mm_GPS_Cellular^{ni}, Beats_cuffie^{ni}, Lightning_cable^{ni}, MacBookAir_M1^{ni}, SamsungGalaxyS10_global^{ni}, SamsungGalaxyS20_5G_global^{ni}, USBC_cable^{ni}, ZenBookFlip_S_UX371^{ni}, iMac_27_RetinaDisplay_5k_256^{ni}, iPadAir_2020^{ni}, iPhone11_64^{ni}, iPhone12_64^{ni}, iPhoneX_64^{ni}

is disjoint with
> (collections)_Bag^c, Collection^c, list^c, ProductCatalog^c, SellingCatalog^c, StockCatalog^c, catalog^c

ITEngineering^C

IRI: https://evilscript.altervista.org/productCatalog.owl#ITEngineering

An Engineering part of the Manufacturer process that specifically contributes to making machines and IT devices

is equivalent to
> designs^{op} **min** 1 Device^C

has super-classes
> Engineering^C

has members
> Asusⁿⁱ, Foxconnⁿⁱ, ShortEngineerⁿⁱ

is disjoint with
> Factory^C

laptop^C

IRI: http://www.productontology.org/id/Laptop

is equivalent to
> Laptop^C

has super-classes
> PortableDevice^C

has members
> MacBookAir_M1ⁿⁱ

is disjoint with
> (collections)_Bag^C, Collection^C, list^C, headphones^C, loudspeaker^C, personal_computer^C, power_cable^C, smartphone^C, smartwatch^C, housing_(engineering)^C, Accessory^C, cable^C, Computer^C, Cover^C, EarPlugs^C, HardCover^C, NotPortableDevice^C, ProductCatalog^C, SellingCatalog^C, Smartphone^C, Smartwatch^C, SoftCover^C, Stereo^C, StockCatalog^C, catalog^C

Laptop^C

IRI: https://evilscript.altervista.org/productCatalog.owl#Laptop

A small portable personal computer

has super-classes
> PortableDevice^C

has members
> MacBookAir_M1ⁿⁱ

is disjoint with
> (collections)_Bag^C, Collection^C, list^C, headphones^C, loudspeaker^C, personal_computer^C, power_cable^C, smartphone^C, smartwatch^C, housing_(engineering)^C,

Accessory^c, cable^c, Computer^c, Cover^c, EarPlugs^c, HardCover^c, NotPortableDevice^c, ProductCatalog^c, SellingCatalog^c, Smartphone^c, Smartwatch^c, SoftCover^c, Stereo^c, StockCatalog^c, catalog^c

list^c

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#List

List - An ordered array of items, that can be present in multiple copies

has super-classes
    (collections) Bag^c

is in domain of
    has first item^{op}, has last item^{op}

is in range of
    first item of^{op}, last item of^{op}

has members
    AppleAccessoriesⁿⁱ, AppleMobileⁿⁱ, ApplePCⁿⁱ, AsusPCⁿⁱ, BeatsEarPlugsⁿⁱ, SamsungAccessoriesⁿⁱ, SamsungGalaxyⁿⁱ

is disjoint with
    item^c, list_item^c, headphones^c, laptop^c, loudspeaker^c, personal_computer^c, power_cable^c, smartphone^c, smartwatch^c, tablet_computer^c, 2_in_1_p_c^c, housing_(engineering)^c, product_(business)^c, Accessory^c, cable^c, Computer^c, Cover^c, Device^c, EarPlugs^c, HardCover^c, Laptop^c, NotPortableDevice^c, PortableDevice^c, Product^c, product_high^c, product_low^c, product_medium^c, Smartphone^c, Smartwatch^c, SoftCover^c, Stereo^c, Tablet^c, 2in1^c

list item^c

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#ListItem

ListItem - Element belonging to a list

has super-classes
    item^c

has sub-classes
    Product^c, product_(business)^c

is in domain of
    first item of^{op}, last item of^{op}, next item^{op}, previous item^{op}

is in range of
    has first item^{op}, has last item^{op}, next item^{op}, previous item^{op}

has members
    AirPods_wirelessChargeⁿⁱ, AppleWatchSeries6_40mm_GPS_Cellularⁿⁱ, Beats_cuffieⁿⁱ, Lightning_cableⁿⁱ, MacBookAir_M1ⁿⁱ, SamsungGalaxyS10_globalⁿⁱ, SamsungGalaxyS20_5G_globalⁿⁱ, USBC_cableⁿⁱ, ZenBookFlip_S_UX371ⁿⁱ, iMac_27_RetinaDisplay_5k_256ⁿⁱ, iPadAir_2020ⁿⁱ, iPhone11_64ⁿⁱ, iPhone12_64ⁿⁱ, iPhoneX_64ⁿⁱ

is disjoint with

(collections) Bag^C, Collection^C, list^C, ProductCatalog^C, SellingCatalog^C, StockCatalog^C, catalog^C

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loudspeaker^C

IRI: http://www.productontology.org/id/Loudspeaker

is equivalent to

Stereo^C

has super-classes

NotPortableDevice^C

is disjoint with

(collections) Bag^C, Collection^C, list^C, headphones^C, laptop^C, personal computer^C, power cable^C, smartphone^C, smartwatch^C, tablet computer^C, 2 in 1 pc^C, housing (engineering)^C, Accessory^C, cable^C, Computer^C, Cover^C, EarPlugs^C, HardCover^C, Laptop^C, PortableDevice^C, ProductCatalog^C, SellingCatalog^C, Smartphone^C, Smartwatch^C, SoftCover^C, StockCatalog^C, Tablet^C, 2in1^C, catalog^C

Manufacturer^C

IRI: https://evilscript.altervista.org/productCatalog.owl#Manufacturer

The part of the company specifically addressed to engineer and produce the X product

is equivalent to

{ Apple , Asus , BeatsAudio , Foxconn , Huáshuò , Qualcomm , Samsung , ShortEngineer }

has super-classes

Company^C

has sub-classes

Engineering^C, Factory^C

is in domain of

isManufacturerOf^{op}

is in range of

manufacturersTo^{op}

has members

Apple^{ni}, Asus^{ni}, BeatsAudio^{ni}, Foxconn^{ni}, Huáshuò^{ni}, Qualcomm^{ni}, Samsung^{ni}, ShortEngineer^{ni}, ShortFactory^{ni}

NotPortableDevice^C

IRI: https://evilscript.altervista.org/productCatalog.owl#NotPortableDevice

A device that is not made to be moved from the initial position

has super-classes
> Device[C]

has sub-classes
> Computer[C], Stereo[C], loudspeaker[C], personal computer[C]

has members
> iMac_27_RetinaDisplay_5k_256[ni]

is disjoint with
> (collections)_Bag[C], Collection[C], list[C], headphones[C], laptop[C], power_cable[C], smartphone[C], smartwatch[C], tablet_computer[C], 2_in_1_p_c[C], housing_(engineering)[C], Accessory[C], cable[C], Cover[C], EarPlugs[C], HardCover[C], Laptop[C], PortableDevice[C], ProductCatalog[C], SellingCatalog[C], Smartphone[C], Smartwatch[C], SoftCover[C], StockCatalog[C], Tablet[C], 2in1[C], catalog[C]

personal computer[C]

IRI: http://www.productontology.org/id/Personal_computer

is equivalent to
> Computer[C]

has super-classes
> NotPortableDevice[C]

has members
> iMac_27_RetinaDisplay_5k_256[ni]

is disjoint with
> (collections)_Bag[C], Collection[C], list[C], headphones[C], laptop[C], loudspeaker[C], power_cable[C], smartphone[C], smartwatch[C], tablet_computer[C], 2_in_1_p_c[C], housing_(engineering)[C], Accessory[C], cable[C], Cover[C], EarPlugs[C], HardCover[C], Laptop[C], PortableDevice[C], ProductCatalog[C], SellingCatalog[C], Smartphone[C], Smartwatch[C], SoftCover[C], Stereo[C], StockCatalog[C], Tablet[C], 2in1[C], catalog[C]

PortableDevice[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#PortableDevice

A device made for everyday life

has super-classes
> Device[C]

has sub-classes
> 2_in_1_p_c[C], 2in1[C], Laptop[C], Smartphone[C], Smartwatch[C], Tablet[C], laptop[C], smartphone[C], smartwatch[C], tablet computer[C]

is in range of
> fitFor[op]

has members
> AppleWatchSeries6_40mm_GPS_Cellular[ni], MacBookAir_M1[ni], SamsungGalaxyS10_global[ni], SamsungGalaxyS20_5G_global[ni],

[ZenBookFlip_S_UX371](#)[ni], [iPadAir_2020](#)[ni], [iPhone11_64](#)[ni], [iPhone12_64](#)[ni], [iPhoneX_64](#)[ni]

is disjoint with

[(collections)_Bag](#)[C], [Collection](#)[C], [list](#)[C], [headphones](#)[C], [loudspeaker](#)[C], [personal computer](#)[C], [power_cable](#)[C], [housing_(engineering)](#)[C], [Accessory](#)[C], [cable](#)[C], [Computer](#)[C], [Cover](#)[C], [EarPlugs](#)[C], [HardCover](#)[C], [NotPortableDevice](#)[C], [ProductCatalog](#)[C], [SellingCatalog](#)[C], [SoftCover](#)[C], [Stereo](#)[C], [StockCatalog](#)[C], [catalog](#)[C]

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power cable[C]

IRI: http://www.productontology.org/id/Power_cable

is equivalent to

[cable](#)[C]

has super-classes

[Accessory](#)[C]

has members

[Lightning_cable](#)[ni], [USBC_cable](#)[ni]

is disjoint with

[(collections)_Bag](#)[C], [Collection](#)[C], [list](#)[C], [headphones](#)[C], [laptop](#)[C], [loudspeaker](#)[C], [personal computer](#)[C], [smartphone](#)[C], [smartwatch](#)[C], [tablet computer](#)[C], [2_in_1_p_c](#)[C], [housing_(engineering)](#)[C], [Computer](#)[C], [Cover](#)[C], [Device](#)[C], [EarPlugs](#)[C], [HardCover](#)[C], [Laptop](#)[C], [NotPortableDevice](#)[C], [PortableDevice](#)[C], [ProductCatalog](#)[C], [SellingCatalog](#)[C], [Smartphone](#)[C], [Smartwatch](#)[C], [SoftCover](#)[C], [Stereo](#)[C], [StockCatalog](#)[C], [Tablet](#)[C], [2in1](#)[C], [catalog](#)[C]

PowerUser[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#PowerUser

An expert individual using a product

is equivalent to

[buysProduct](#)[op] **some** [product high](#)[C]

has super-classes

[User](#)[C]

has members

[Giovanni](#)[ni]

is disjoint with

[CasualUser](#)[C]

Price[C]

IRI: http://www.ontologydesignpatterns.org/cp/owl/price.owl#Price

is defined by
    http://www.ontologydesignpatterns.org/cp/owl/price.owl

The amount of money expected, required, or given in payment for something.

has super-classes
    has currency^{op} **exactly** 1
    has value^{dp} **min** 1

is in domain of
    has currency^{op}, has value^{dp}, is price of^{op}

is in range of
    has price^{op}

has members
    1000Euro^{ni}, 10Euro^{ni}, 1800Euro^{ni}, 200Euro^{ni}, 500Euro^{ni}, 600Euro^{ni}, 800Euro^{ni}

is disjoint with
    Currency^{c}

Product^{c}

IRI: https://evilscript.altervista.org/productCatalog.owl#Product

Something that is produced and used

is equivalent to
    list item^{c} **and** (isContainedIn^{op} **some** ProductCatalog^{c})

has super-classes
    physical object^{c}
    list item^{c}

has sub-classes
    Accessory^{c}, Device^{c}, product high^{c}, product low^{c}, product medium^{c}

is in domain of
    Color^{dp}, Customer's range the product is made to^{dp}, Depth^{dp}, EAN^{dp}, Height^{dp}, Price^{dp}, ProductName^{dp}, RollOutDate^{dp}, Weight^{dp}, Width^{dp}, containsInBox^{op}, designedBy^{op}, hasBrand^{op}, inCollabWith^{op}, isContainedIn^{op}, predecessorOf^{op}, producedBy^{op}, soldBy^{op}, successorOf^{op}

is in range of
    buysProduct^{op}, contains^{op}, designs^{op}, inBoxOf^{op}, isBrandOf^{op}, predecessorOf^{op}, produces^{op}, sells^{op}, successorOf^{op}

has members
    AirPods_wirelessCharge^{ni}, AppleWatchSeries6_40mm_GPS_Cellular^{ni}, Beats_cuffie^{ni}, Lightning_cable^{ni}, MacBookAir_M1^{ni}, SamsungGalaxyS10_global^{ni}, SamsungGalaxyS20_5G_global^{ni}, USBC_cable^{ni}, ZenBookFlip_S_UX371^{ni}, iMac_27_RetinaDisplay_5k_256^{ni}, iPadAir_2020^{ni}, iPhone11_64^{ni}, iPhone12_64^{ni}, iPhoneX_64^{ni}

is disjoint with
    (collections)_Bag^{c}, Collection^{c}, list^{c}, ProductCatalog^{c}, SellingCatalog^{c}, StockCatalog^{c}, catalog^{c}

product (business)^C

IRI: http://www.productontology.org/id/Product_(business)

is equivalent to
> Product^C

has super-classes
> physical object^C
> list item^C

has sub-classes
> Accessory^C, Device^C, product high^C, product low^C, product medium^C

has members
> AirPods_wirelessChargeⁿⁱ,   AppleWatchSeries6_40mm_GPS_Cellularⁿⁱ,
> Beats_cuffieⁿⁱ,   Lightning_cableⁿⁱ,   MacBookAir_M1ⁿⁱ,
> SamsungGalaxyS10_globalⁿⁱ,   SamsungGalaxyS20_5G_globalⁿⁱ,
> USBC_cableⁿⁱ, ZenBookFlip_S_UX371ⁿⁱ, iMac_27_RetinaDisplay_5k_256ⁿⁱ,
> iPadAir_2020ⁿⁱ, iPhone11_64ⁿⁱ, iPhone12_64ⁿⁱ, iPhoneX_64ⁿⁱ

is disjoint with
> (collections)__Bag^C, Collection^C, list^C, ProductCatalog^C, SellingCatalog^C,
> StockCatalog^C, catalog^C

product high^C

IRI: https://evilscript.altervista.org/productCatalog.owl#ProductHigh

is equivalent to
> Product^C **and** (Customer's range the product is made to^{dp} **value** High)

has super-classes
> product (business)^C
> Product^C

has members
> AppleWatchSeries6_40mm_GPS_Cellularⁿⁱ,
> SamsungGalaxyS20_5G_globalⁿⁱ,   iMac_27_RetinaDisplay_5k_256ⁿⁱ,
> iPhone12_64ⁿⁱ

is disjoint with
> (collections)__Bag^C, Collection^C, list^C, ProductCatalog^C, SellingCatalog^C,
> StockCatalog^C, catalog^C

product low^C

IRI: https://evilscript.altervista.org/productCatalog.owl#ProductLow

is equivalent to
> Product^C **and** (Customer's range the product is made to^{dp} **value** Low)

has super-classes

product (business)^c
Product^c
is disjoint with
(collections)__Bag^c, Collection^c, list^c, ProductCatalog^c, SellingCatalog^c, StockCatalog^c, catalog^c

---

product medium^c

IRI: https://evilscript.altervista.org/productCatalog.owl#ProductMedium

is equivalent to
Product^c **and** (Customer's range the product is made to^{dp} **value** Medium)
has super-classes
product (business)^c
Product^c
has members
MacBookAir_M1^{ni}, SamsungGalaxyS10_global^{ni}, iPadAir_2020^{ni}, iPhone11_64^{ni}
is disjoint with
(collections)__Bag^c, Collection^c, list^c, ProductCatalog^c, SellingCatalog^c, StockCatalog^c, catalog^c

---

ProductCatalog^c

IRI: https://evilscript.altervista.org/productCatalog.owl#ProductCatalog

A catalog of products

is equivalent to
catalog^c
contains^{op} **some** Product^c
has super-classes
thing^c
has sub-classes
(collections) Bag^c, SellingCatalog^c, StockCatalog^c
is in domain of
contains^{op}
is in range of
hasCatalog^{op}, isContainedIn^{op}
has members
AppleAccessories^{ni}, AppleCatalog^{ni}, AppleMobile^{ni}, ApplePC^{ni}, AsusCatalog^{ni}, AsusPC^{ni}, BeatsEarPlugs^{ni}, SamsungAccessories^{ni}, SamsungCatalog^{ni}, SamsungGalaxy^{ni}
is disjoint with
item^c, list_item^c, headphones^c, laptop^c, loudspeaker^c, personal_computer^c, power_cable^c, smartphone^c, smartwatch^c, tablet_computer^c, 2_in_1_p_c^c,

housing_(engineering)^c, product_(business)^c, Accessory^c, cable^c, Computer^c, Cover^c, Device^c, EarPlugs^c, HardCover^c, Laptop^c, NotPortableDevice^c, PortableDevice^c, Product^c, product_high^c, product_low^c, product_medium^c, Smartphone^c, Smartwatch^c, SoftCover^c, Stereo^c, Tablet^c, 2in1^c

SellingCatalog^c

IRI: https://evilscript.altervista.org/productCatalog.owl#SellingCatalog

A catalog of products made to be sold

has super-classes
Collection^c
ProductCatalog^c
catalog^c

is in domain of
containsBrand^{op}

is in range of
brandContainedIn^{op}, buysFrom^{op}

has members
AppleCatalogⁿⁱ, AsusCatalogⁿⁱ, SamsungCatalogⁿⁱ

is disjoint with
item^c, list_item^c, headphones^c, laptop^c, loudspeaker^c, personal_computer^c, power_cable^c, smartphone^c, smartwatch^c, tablet_computer^c, 2_in_1_p_c^c, housing_(engineering)^c, product_(business)^c, Accessory^c, cable^c, Computer^c, Cover^c, Device^c, EarPlugs^c, HardCover^c, Laptop^c, NotPortableDevice^c, PortableDevice^c, Product^c, product_high^c, product_low^c, product_medium^c, Smartphone^c, Smartwatch^c, SoftCover^c, Stereo^c, StockCatalog^c, Tablet^c, 2in1^c

smartphone^c

IRI: http://www.productontology.org/id/Smartphone

is equivalent to
Smartphone^c

has super-classes
PortableDevice^c

has members
SamsungGalaxyS10_globalⁿⁱ, SamsungGalaxyS20_5G_globalⁿⁱ, iPhone11_64ⁿⁱ, iPhone12_64ⁿⁱ, iPhoneX_64ⁿⁱ

is disjoint with
(collections)_Bag^c, Collection^c, list^c, headphones^c, laptop^c, loudspeaker^c, personal_computer^c, power_cable^c, smartwatch^c, tablet_computer^c, 2_in_1_p_c^c, housing_(engineering)^c, Accessory^c, cable^c, Computer^c, Cover^c, EarPlugs^c, HardCover^c, Laptop^c, NotPortableDevice^c, ProductCatalog^c, SellingCatalog^c, Smartwatch^c, SoftCover^c, Stereo^c, StockCatalog^c, Tablet^c, 2in1^c, catalog^c

Smartphone[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#Smartphone

Mobile device that combines cellular and mobile computing functions into one unit

has super-classes

PortableDevice[C]

is in range of

needsConnectionWith[op]

has members

SamsungGalaxyS10_global[ni], SamsungGalaxyS20_5G_global[ni], iPhone11_64[ni], iPhone12_64[ni], iPhoneX_64[ni]

is disjoint with

(collections)_Bag[C], Collection[C], list[C], headphones[C], laptop[C], loudspeaker[C], personal computer[C], power cable[C], smartwatch[C], tablet computer[C], 2 in 1 p c[C], housing_(engineering)[C], Accessory[C], cable[C], Computer[C], Cover[C], EarPlugs[C], HardCover[C], Laptop[C], NotPortableDevice[C], ProductCatalog[C], SellingCatalog[C], Smartwatch[C], SoftCover[C], Stereo[C], StockCatalog[C], Tablet[C], 2in1[C], catalog[C]

smartwatch[C]

IRI: http://www.productontology.org/id/Smartwatch

is equivalent to

Smartwatch[C]

has super-classes

PortableDevice[C]

has members

AppleWatchSeries6_40mm_GPS_Cellular[ni]

is disjoint with

(collections)_Bag[C], Collection[C], list[C], headphones[C], laptop[C], loudspeaker[C], personal computer[C], power cable[C], smartphone[C], tablet computer[C], 2 in 1 p c[C], housing_(engineering)[C], Accessory[C], cable[C], Computer[C], Cover[C], EarPlugs[C], HardCover[C], Laptop[C], NotPortableDevice[C], ProductCatalog[C], SellingCatalog[C], Smartphone[C], SoftCover[C], Stereo[C], StockCatalog[C], Tablet[C], 2in1[C], catalog[C]

Smartwatch[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#Smartwatch

Wearable computer in the form of a watch

has super-classes

PortableDevice[C]

is in domain of

needsConnectionWith[op]

has members

AppleWatchSeries6_40mm_GPS_Cellular[ni]

is disjoint with

(collections)_Bag[c], Collection[c], list[c], headphones[c], laptop[c], loudspeaker[c], personal_computer[c], power_cable[c], smartphone[c], tablet_computer[c], 2_in_1_p_c[c], housing_(engineering)[c], Accessory[c], cable[c], Computer[c], Cover[c], EarPlugs[c], HardCover[c], Laptop[c], NotPortableDevice[c], ProductCatalog[c], SellingCatalog[c], Smartphone[c], SoftCover[c], Stereo[c], StockCatalog[c], Tablet[c], 2in1[c], catalog[c]

SoftCover[c]

IRI: https://evilscript.altervista.org/productCatalog.owl#SoftCover

A soft cover

has super-classes

housing_(engineering)[c]
Cover[c]

is disjoint with

(collections)_Bag[c], Collection[c], list[c], headphones[c], laptop[c], loudspeaker[c], personal_computer[c], power_cable[c], smartphone[c], smartwatch[c], tablet_computer[c], 2_in_1_p_c[c], cable[c], Computer[c], Device[c], EarPlugs[c], HardCover[c], Laptop[c], NotPortableDevice[c], PortableDevice[c], ProductCatalog[c], SellingCatalog[c], Smartphone[c], Smartwatch[c], Stereo[c], StockCatalog[c], Tablet[c], 2in1[c], catalog[c]

Stereo[c]

IRI: https://evilscript.altervista.org/productCatalog.owl#Stereo

A big device made for listening to music

has super-classes

NotPortableDevice[c]

is disjoint with

(collections)_Bag[c], Collection[c], list[c], headphones[c], laptop[c], personal_computer[c], power_cable[c], smartphone[c], smartwatch[c], tablet_computer[c], 2_in_1_p_c[c], housing_(engineering)[c], Accessory[c], cable[c], Computer[c], Cover[c], EarPlugs[c], HardCover[c], Laptop[c], PortableDevice[c], ProductCatalog[c], SellingCatalog[c], Smartphone[c], Smartwatch[c], SoftCover[c], StockCatalog[c], Tablet[c], 2in1[c], catalog[c]

StockCatalog[c]

IRI: https://evilscript.altervista.org/productCatalog.owl#StockCatalog

A catalog of products made to keep track of stock coverage

has super-classes
> Collection[C]
> ProductCatalog[C]
> catalog[C]

is disjoint with
> item[C], list_item[C], headphones[C], laptop[C], loudspeaker[C], personal_computer[C], power_cable[C], smartphone[C], smartwatch[C], tablet_computer[C], 2_in_1_p_c[C], housing_(engineering)[C], product_(business)[C], Accessory[C], cable[C], Computer[C], Cover[C], Device[C], EarPlugs[C], HardCover[C], Laptop[C], NotPortableDevice[C], PortableDevice[C], Product[C], product_high[C], product_low[C], product_medium[C], SellingCatalog[C], Smartphone[C], Smartwatch[C], SoftCover[C], Stereo[C], Tablet[C], 2in1[C]

Tablet[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#Tablet

Mobile device, typically with a mobile operating system and touchscreen display processing circuitry, and a rechargeable battery in a single, thin and flat package

has super-classes
> PortableDevice[C]

has members
> iPadAir_2020[ni]

is disjoint with
> (collections)_Bag[C], Collection[C], list[C], headphones[C], loudspeaker[C], personal_computer[C], power_cable[C], smartphone[C], smartwatch[C], housing_(engineering)[C], Accessory[C], cable[C], Computer[C], Cover[C], EarPlugs[C], HardCover[C], NotPortableDevice[C], ProductCatalog[C], SellingCatalog[C], Smartphone[C], Smartwatch[C], SoftCover[C], Stereo[C], StockCatalog[C], catalog[C]

tablet computer[C]

IRI: http://www.productontology.org/id/Tablet_computer

is equivalent to
> Tablet[C]

has super-classes
> PortableDevice[C]

has members
> iPadAir_2020[ni]

is disjoint with
> (collections)_Bag[C], Collection[C], list[C], headphones[C], loudspeaker[C], personal_computer[C], power_cable[C], smartphone[C], smartwatch[C], housing_(engineering)[C], Accessory[C], cable[C], Computer[C], Cover[C], EarPlugs[C], HardCover[C],

NotPortableDevice[C],   ProductCatalog[C],   SellingCatalog[C],   Smartphone[C],
Smartwatch[C], SoftCover[C], Stereo[C], StockCatalog[C], catalog[C]

User[C]

IRI: https://evilscript.altervista.org/productCatalog.owl#User

An individual using a product

has super-classes
> person[C]

has sub-classes
> CasualUser[C], PowerUser[C]

is in domain of
> buysFrom[op], buysProduct[op]

has members
> Giovanni[ni], Michela[ni]

Object Properties

brandContainedIn   buysFrom   buysProduct   collabsWith   compatibleWith
contains   containsBrand   containsInBox   designedBy   designs
directly follows   directly precedes   first item of   fitFor   follows
has currency   has first item   has item   has last item   has member
has price   hasBrand   hasCatalog   hasProducer   inBoxOf   inCollabWith
is member of   is price of   isBrandOf   isContainedIn   isManufacturerOf
item content   item of   last item of   manufacturersTo   needsConnectionWith
next item   precedes   predecessorOf   previous item   producedBy
produces   putInBoxes   sells   soldBy   successorOf

brandContainedIn[op]

IRI: https://evilscript.altervista.org/productCatalog.owl#brandContainedIn

Shows if a company is listed on a Selling Catalog

has characteristics: transitive

has super-properties
> top object property

has domain
> Company[C]

has range
> SellingCatalog[C]

is inverse of
> containsBrand[op]

buysFrom^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#buysFrom

Shows what user is buying from the X selling catalog

has super-properties
   top object property
has domain
   User^c
has range
   SellingCatalog^c
has sub-property chains
   buysProduct^{op} o isContainedIn^{op}

buysProduct^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#buysProduct

Shows what product is the user buying

has super-properties
   top object property
has domain
   User^c
has range
   Product^c

collabsWith^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#collabsWith

Shows company collaborations to create a certain product

has characteristics: symmetric

has super-properties
   top object property
has domain
   Company^c
has range
   Company^c
is inverse of
   collabsWith^{op}, collabsWith^{op}
has sub-property chains
   sells^{op} o inCollabWith^{op}

compatibleWith^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#compatibleWith

Checking the compatibility between accessories and devices

has super-properties
top object property
has domain
Accessory^c **or** Device^c
has range
Device^c

contains^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#contains

Availability of a product in a product catalog

has characteristics: asymmetric, transitive, irreflexive

has super-properties
top object property
has domain
ProductCatalog^c
has range
Product^c
is inverse of
isContainedIn^{op}
has sub-property chains
has member^{op} **o** has item^{op}

containsBrand^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#containsBrand

Company that sells products in SellingCatalog

has characteristics: transitive

has super-properties
top object property
has domain
SellingCatalog^c
has range
Company^c
is inverse of

brandContainedIn^{op}

has sub-property chains
contains^{op} **o** hasBrand^{op}

---

containsInBox^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#containsInBox

Shows the items inside a product box

has characteristics: transitive

has super-properties
top object property
has domain
Product^c
has range
Accessory^c
is inverse of
inBoxOf^{op}

---

designedBy^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#designedBy

Who made the design of a product

has characteristics: functional

has super-properties
top object property
has domain
Product^c
has range
Engineering^c
is inverse of
designs^{op}

---

designs^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#designs

Who made the design of a product

has super-properties
top object property
has domain

Engineering^c

has range
    Product^c

is inverse of
    designedBy^{op}

directly follows^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/sequence.owl#directlyFollows

is defined by
    http://www.ontologydesignpatterns.org/cp/owl/sequence.owl

The intransitive follows relation. For example, Wednesday directly precedes Thursday. Directness of precedence depends on the designer conceptualization.

has super-properties
    follows^{op}

has sub-properties
    next item^{op}

has domain
    thing^c

has range
    thing^c

is inverse of
    directly precedes^{op}

directly precedes^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/sequence.owl#directlyPrecedes

is defined by
    http://www.ontologydesignpatterns.org/cp/owl/sequence.owl

The intransitive precedes relation. For example, Monday directly precedes Tuesday. Directness of precedence depends on the designer conceptualization.

has super-properties
    precedes^{op}

has sub-properties
    previous item^{op}

has domain
    thing^c

has range
    thing^c

is inverse of
    directly follows^{op}

first item of^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#firstItemOf

has super-properties
  item of^{op}
has domain
  list item^c
has range
  list^c
is inverse of
  has first item^{op}

fitFor^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#fitFor

Checking the compatibility between a cover and its device

has super-properties
  top object property
has domain
  Cover^c
has range
  PortableDevice^c

follows^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/sequence.owl#follows

is defined by
  http://www.ontologydesignpatterns.org/cp/owl/sequence.owl

A relation between entities, expressing a 'sequence' schema. E.g. 'year 2000 follows 1999', 'preparing coffee' follows 'deciding what coffee to use', 'II World War follows I World War', etc. It can be used between tasks, processes or time intervals, and subproperties would fit best in order to distinguish the different uses.

has characteristics: transitive

has sub-properties
  directly follows^{op}
has domain
  thing^c
has range
  thing^c
is inverse of

precedes^{op}

has currency^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/price.owl#hasCurrency

is defined by
   http://www.ontologydesignpatterns.org/cp/owl/price.owl

has domain
   Price^c

has range
   Currency^c

has first item^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#hasFirstItem

first item - The link to the first item of the list

has characteristics: functional

has super-properties
   has item^{op}

has domain
   list^c

has range
   list item^c

is inverse of
   first item of^{op}

has item^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/bag.owl#hasItem

has item - The link to every item of the Bag

has super-properties
   has member^{op}

has sub-properties
   has first item^{op}, has last item^{op}

has domain
   (collections) Bag^c

has range
   item^c

is inverse of
   item of^{op}

has last item^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#hasLastItem

last item - The link to the last item of the list

has characteristics: functional

has super-properties
> has item^{op}

has domain
> list^c

has range
> list item^c

is inverse of
> last item of^{op}

has member^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/collectionentity.owl#hasMember

is defined by
> http://www.ontologydesignpatterns.org/cp/owl/collectionentity.owl

A relation between collections and entities, e.g. 'my collection of saxophones includes an old Adolphe Sax original alto' (i.e. my collection has member an Adolphe Sax alto).

has sub-properties
> has item^{op}

has domain
> Collection^c

has range
> thing^c

is inverse of
> is member of^{op}

has price^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/price.owl#hasPrice

is defined by
> http://www.ontologydesignpatterns.org/cp/owl/price.owl

has domain
> thing^c

has range
> Price^c

is inverse of
is price of^{op}

hasBrand^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#hasBrand

Shows the brand of the product

has characteristics: functional

has super-properties
top object property
has domain
Product^c
has range
Company^c
is inverse of
isBrandOf^{op}

hasCatalog^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#hasCatalog

Shows what catalog X Company has available

has super-properties
top object property
has domain
Company^c
has range
ProductCatalog^c

hasProducer^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#hasProducer

Checking what engineering produced the design to be produced in a factory

has super-properties
top object property
has domain
Engineering^c
has range
Factory^c

inBoxOf^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#inBoxOf

What products has a device's box in

---

has characteristics: transitive

has super-properties
  top object property
has domain
  Accessory^c
has range
  Product^c
is inverse of
  containsInBox^{op}

---

inCollabWith^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#inCollabWith

Shows company collaborations to create a certain product

---

has super-properties
  top object property
has domain
  Product^c
has range
  Company^c

---

is member of^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/collectionentity.owl#isMemberOf

is defined by
  http://www.ontologydesignpatterns.org/cp/owl/collectionentity.owl

has sub-properties
  item of^{op}
has domain
  thing^c
has range
  Collection^c
is inverse of
  has member^{op}

---

is price of^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/price.owl#isPriceOf

is defined by
> http://www.ontologydesignpatterns.org/cp/owl/price.owl

has domain
> Price^c

has range
> thing^c

is inverse of
> has price^{op}

isBrandOf^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#isBrandOf

Shows the products of the brand

has characteristics: inverse functional

has super-properties
> top object property

has domain
> Company^c

has range
> Product^c

is inverse of
> hasBrand^{op}

isContainedIn^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#isContainedIn

Availability of a product in a product catalog

has characteristics: asymmetric, transitive, irreflexive

has super-properties
> top object property

has domain
> Product^c

has range
> ProductCatalog^c

is inverse of
> contains^{op}

isManufacturerOf^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#isManifacturerOf

Keeps track of who is manifacturing this company for

has super-properties
　　top object property

has domain
　　Manufacturer^C

has range
　　Company^C

is inverse of
　　manufacturersTo^{op}

item content^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/bag.owl#itemContent

itemContent - The link to the actual resource to which the item refers.

has domain
　　item^C

has range
　　not (item^C)

item of^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/bag.owl#itemOf

item of - The link from an item to the Bag where it is contained

has super-properties
　　is member of^{op}

has sub-properties
　　first item of^{op}, last item of^{op}

has domain
　　item^C

has range
　　(collections) Bag^C

is inverse of
　　has item^{op}

last item of^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#lastItemOf

has super-properties
　　item of^{op}

has domain
　　list item^C

has range
    list^c
is inverse of
    has last item^{op}

manufacturersTo^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#manufacturesTo

Keeps track of who is manifacturing this company for

has super-properties
    top object property
has domain
    Company^c
has range
    Manufacturer^c
is inverse of
    isManufacturerOf^{op}
has sub-property chains
    sells^{op} o designedBy^{op}
    sells^{op} o producedBy^{op}

needsConnectionWith^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#needsConnectionWith

Checking the wireless compatibility between a smarwatch and a smartphone

has super-properties
    top object property
has domain
    Smartwatch^c
has range
    Smartphone^c

next item^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#nextItem

next item - The link to the next item in a list (ordered collection)

has characteristics: functional

has super-properties
    directly follows^{op}
has domain

list item^c

has range

    list item^c

is inverse of

    previous item^{op}

---

precedes^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/sequence.owl#precedes

is defined by

    http://www.ontologydesignpatterns.org/cp/owl/sequence.owl

A relation between entities, expressing a 'sequence' schema. E.g. 'year 1999 precedes 2000', 'deciding what coffee to use' precedes 'preparing coffee', 'World War II follows World War I', 'in the Milan to Rome autoroute, Bologna precedes Florence', etc. It can then be used between tasks, processes, time intervals, spatially locate objects, situations, etc. Subproperties can be defined in order to distinguish the different uses.

---

has characteristics: transitive

has sub-properties

    directly precedes^{op}

has domain

    thing^c

has range

    thing^c

is inverse of

    follows^{op}

---

predecessorOf^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#predecessorOf

Previous device version

---

has characteristics: inverse functional

has super-properties

    top object property

has domain

    Product^c

has range

    Product^c

is inverse of

    successorOf^{op}

previous item^{op}

IRI: http://www.ontologydesignpatterns.org/cp/owl/list.owl#previousItem

previous item - The link to the previous item in a list (ordered collection)

has characteristics: functional

has super-properties
    directly precedes^{op}

has domain
    list item^c

has range
    list item^c

is inverse of
    next item^{op}

producedBy^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#producedBy

Checking what factory produced the X device

has super-properties
    top object property

has domain
    Product^c

has range
    Factory^c

is inverse of
    produces^{op}

produces^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#produces

Checking what factory produced the X device

has super-properties
    top object property

has domain
    Factory^c

has range
    Product^c

is inverse of
    producedBy^{op}

ITCatalog

putInBoxes^{op}

back to ToC or Object Property ToC

IRI: https://evilscript.altervista.org/productCatalog.owl#putInBoxes

Shows what items are put in a product's box

has super-properties
top object property
has domain
Company^c
has range
Accessory^c
has sub-property chains
sells^{op} o containsInBox^{op}

sells^{op}

back to ToC or Object Property ToC

IRI: https://evilscript.altervista.org/productCatalog.owl#sells

Product is sold by X company

has super-properties
top object property
has domain
Company^c
has range
Product^c
is inverse of
soldBy^{op}
has sub-property chains
hasCatalog^{op} o has member^{op} o has item^{op}

soldBy^{op}

back to ToC or Object Property ToC

IRI: https://evilscript.altervista.org/productCatalog.owl#soldBy

Product is sold by X company

has super-properties
top object property
has domain
Product^c
has range
Company^c
is inverse of
sells^{op}

successorOf^{op}

IRI: https://evilscript.altervista.org/productCatalog.owl#successorOf

Next device version

has characteristics: functional

has super-properties
top object property
has domain
Product^c
has range
Product^c
is inverse of
predecessorOf^{op}

Data Properties

CameraMegaPixels   ChargingPortType   Color   CpuType
Customer's range the product is made to   Depth   EAN   has value   Height
isTouchScreen   MemorySize   OperatingSystem   Price   ProductName
RamSize   RamType   RollOutDate   ScreenSize   size   Weight   Width

CameraMegaPixels^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#CameraMP

Number of megapixels in a camera's device

has super-properties
top data property
has domain
Computer^c **or** PortableDevice^c
has range

ChargingPortType^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#ChargingPortType

Charging port type

has super-properties
top data property
has domain
EarPlugs^c **or** PortableDevice^c

has range
　　{ "Lightning" , "MicroUSB" , "Proprietary" , "USB-C" }

Color^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#Color

Color of the product

has super-properties
　　top data property
has domain
　　Product^c
has range
　　string

CpuType^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#CpuType

Cpu name

has super-properties
　　top data property
has domain
　　Device^c **or** EarPlugs^c
has range
　　string

Customer's range the product is made to^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#isInRange

has super-properties
　　top data property
has domain
　　Product^c
has range
　　{ "High" , "Low" , "Medium" }

Depth^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#Depth

Depth in mm of a product

has super-properties
　　top data property

has domain
Product^c

has range

EAN^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#EAN

Unique product code of a device

has super-properties
top data property

has domain
Product^c

has range
string

has value^{dp}

IRI: http://www.ontologydesignpatterns.org/cp/owl/price.owl#hasValue

is defined by
http://www.ontologydesignpatterns.org/cp/owl/price.owl

has domain
Price^c

has range
float

Height^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#Height

Height of the product

has super-properties
top data property

has domain
Product^c

has range

isTouchScreen^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#isTouchScreen

Checking if a device is touch screen

has characteristics: functional

has super-properties
    top data property
has domain
    Computer^c **or** PortableDevice^c
has range
    boolean

MemorySize^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#MemorySize

Total "Hard Disk" size

has super-properties
    top data property
has domain
    Computer^c **or** PortableDevice^c
has range
    non negative integer

OperatingSystem^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#OperativeSystem

Operating System installed in a product

has super-properties
    top data property
has domain
    Computer^c **or** PortableDevice^c
has range
    string

Price^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#Price

Price in euros of a product

has super-properties
    top data property
has domain
    Product^c
has range

ProductName^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#ProductName

Shared name of the product

has super-properties
  top data property
has domain
  Product^c
has range
  string

RamSize^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#RamSize

Size in GB of the RAM

has super-properties
  top data property
has domain
  Computer^c **or** PortableDevice^c
has range
  non negative integer

RamType^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#RamType

Generic labeling of Ram Type

has super-properties
  top data property
has domain
  Computer^c **or** Laptop^c **or** 2in1^c
has range
  string

RollOutDate^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#RollOutDate

First date of the roll out

has super-properties
  top data property
has domain
  Product^c
has range

date time

ScreenSize^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#ScreenSize

Screen size in inches

has super-properties
    top data property
has domain
    Computer^c **or** PortableDevice^c
has range

size^{dp}

IRI: http://www.ontologydesignpatterns.org/cp/owl/bag.owl#size

size - The number of items belonging to a collection

has domain
    Collection^c
has range
    integer

Weight^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#Weight

Weight in grams of a product

has super-properties
    top data property
has domain
    Product^c
has range

Width^{dp}

IRI: https://evilscript.altervista.org/productCatalog.owl#Width

Witdh in mm of a product

has super-properties
    top data property
has domain
    Product[c]
has range

Named Individuals

1000Euro[ni]

IRI: https://evilscript.altervista.org/productCatalog.owl#1000Euro

1000 Euro

belongs to
    Price[c]
has facts
    has currency[op] Euro
    is price of[op] MacBookAir_M1
    has value[dp] *"1000.0"^^float*

10Euro[ni]

IRI: https://evilscript.altervista.org/productCatalog.owl#10Euro

10 Euro

belongs to
    Price[c]
has facts
    has currency[op] Euro
    is price of[op] Lightning_cable
    has value[dp] *"10.0"^^float*

1800Euro[ni]

IRI: https://evilscript.altervista.org/productCatalog.owl#1800Euro

1800 Euro

belongs to
  Price^c
has facts
  has currency^{op} Euro
  is price of^{op} ZenBookFlip_S_UX371
  is price of^{op} iMac_27_RetinaDisplay_5k_256
  has value^{dp} *"1800.0"^^float*

200Euroⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#200Euro

200 Euro

belongs to
  Price^c
has facts
  has currency^{op} Euro
  is price of^{op} AirPods_wirelessCharge
  is price of^{op} Beats_cuffie
  has value^{dp} *"200.0"^^float*

500Euroⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#500Euro

500 Euro

belongs to
  Price^c
has facts
  has currency^{op} Euro
  is price of^{op} AppleWatchSeries6_40mm_GPS_Cellular
  is price of^{op} SamsungGalaxyS10_global
  is price of^{op} iPhoneX_64
  has value^{dp} *"500.0"^^float*

600Euroⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#600Euro

600 Euro

belongs to

Price^c
has facts
  has currency^{op} Euro
  is price of^{op} iPadAir_2020
  is price of^{op} iPhone11_64
  has value^{dp} *"600.0"^^float*

800Euroⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#800Euro

800 Euro

belongs to
  Price^c
has facts
  has currency^{op} Euro
  is price of^{op} SamsungGalaxyS20_5G_global
  is price of^{op} iPhone12_64
  has value^{dp} *"800.0"^^float*

AirPods_wirelessChargeⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#AirPods_wirelessCharge

EarPlugs with wireless charge case made by Apple

belongs to
  physical object^c
  item^c
  list item^c
  headphones^c
  product (business)^c
  Accessory^c
  EarPlugs^c
  Product^c
has facts
  item of^{op} AppleAccessories
  is member of^{op} AppleAccessories
  next item^{op} AppleWatchSeries6_40mm_GPS_Cellular
  previous item^{op} Lightning_cable
  has price^{op} 200Euro
  directly follows^{op} AppleWatchSeries6_40mm_GPS_Cellular
  directly precedes^{op} Lightning_cable
  follows^{op} AppleWatchSeries6_40mm_GPS_Cellular
  precedes^{op} Lightning_cable
  containsInBox^{op} Lightning_cable

designedBy[op] Foxconn
hasBrand[op] Apple
isContainedIn[op] AppleCatalog
producedBy[op] Qualcomm
soldBy[op] Apple
ChargingPortType[dp] *"Lightning"^^string*
Color[dp] *"White"^^string*
CpuType[dp] *"Chip H1"^^string*
Depth[dp] *"21.3"^^double*
EAN[dp] *"A1938"^^string*
Height[dp] *"53.5"^^double*
Price[dp] *"229.0"^^double*
ProductName[dp] *"AirPods Wireless Charge Case"^^string*
RollOutDate[dp] *"2019-03-20T00:00:00"^^date time*
Weight[dp] *"40.0"^^double*
Width[dp] *"44.3"^^double*

Apple[ni]

IRI: https://evilscript.altervista.org/productCatalog.owl#Apple

Famous company that design and sell electronic devices

belongs to
organization[c]
Company[c]
Manufacturer[c]

has facts
collabsWith[op] Nike
hasCatalog[op] AppleCatalog
isBrandOf[op] AirPods_wirelessCharge
isBrandOf[op] AppleWatchSeries6_40mm_GPS_Cellular
isBrandOf[op] iPadAir_2020
isBrandOf[op] iPhone11_64
isBrandOf[op] Lightning_cable
isBrandOf[op] MacBookAir_M1
isBrandOf[op] iMac_27_RetinaDisplay_5k_256
isBrandOf[op] iPhone12_64
isBrandOf[op] iPhoneX_64
manufacturersTo[op] BeatsAudio
manufacturersTo[op] Foxconn
manufacturersTo[op] Qualcomm
manufacturersTo[op] ShortFactory
putInBoxes[op] Lightning_cable
putInBoxes[op] USBC_cable
sells[op] AirPods_wirelessCharge
sells[op] AppleWatchSeries6_40mm_GPS_Cellular

sells^{op} Beats_cuffie
sells^{op} iPadAir_2020
sells^{op} iPhone11_64
sells^{op} Lightning_cable
sells^{op} MacBookAir_M1
sells^{op} iMac_27_RetinaDisplay_5k_256
sells^{op} iPhone12_64
sells^{op} iPhoneX_64

AppleAccessoriesⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#AppleAccessories

Section of the Apple Product List that covers Accessories

belongs to
(collections) Bag^c
Collection^c
list^c
ProductCatalog^c
catalog^c

has facts
has item^{op} AirPods_wirelessCharge
has item^{op} AppleWatchSeries6_40mm_GPS_Cellular
has item^{op} Lightning_cable
has member^{op} AirPods_wirelessCharge
has member^{op} AppleWatchSeries6_40mm_GPS_Cellular
has member^{op} Lightning_cable
is member of^{op} AppleCatalog
has first item^{op} Lightning_cable
has last item^{op} AppleWatchSeries6_40mm_GPS_Cellular

AppleCatalogⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#AppleCatalog

Apple web site catalog

belongs to
Collection^c
ProductCatalog^c
SellingCatalog^c
catalog^c

has facts
has member^{op} AppleAccessories
has member^{op} AppleMobile
has member^{op} ApplePC

has member^{op} BeatsEarPlugs
contains^{op} AirPods_wirelessCharge
contains^{op} AppleWatchSeries6_40mm_GPS_Cellular
contains^{op} Beats_cuffie
contains^{op} iPadAir_2020
contains^{op} iPhone11_64
contains^{op} Lightning_cable
contains^{op} MacBookAir_M1
contains^{op} iMac_27_RetinaDisplay_5k_256
contains^{op} iPhone12_64
contains^{op} iPhoneX_64
containsBrand^{op} Apple
containsBrand^{op} BeatsAudio

AppleMobileⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#AppleMobile

Section of the Apple Product List that covers Mobile Phones

belongs to
(collections) Bag^c
Collection^c
list^c
ProductCatalog^c
catalog^c
has facts
has item^{op} iPadAir_2020
has item^{op} iPhone11_64
has item^{op} iPhone12_64
has item^{op} iPhoneX_64
has member^{op} iPadAir_2020
has member^{op} iPhone11_64
has member^{op} iPhone12_64
has member^{op} iPhoneX_64
is member of^{op} AppleCatalog
has first item^{op} iPhoneX_64
has last item^{op} iPadAir_2020

ApplePCⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#ApplePC

Section of the Apple Product List that covers PCs

belongs to
(collections) Bag^c

Collection^C
list^C
ProductCatalog^C
catalog^C

has facts

has item^{op} MacBookAir_M1
has item^{op} iMac_27_RetinaDisplay_5k_256
has member^{op} MacBookAir_M1
has member^{op} iMac_27_RetinaDisplay_5k_256
is member of^{op} AppleCatalog
has first item^{op} iMac_27_RetinaDisplay_5k_256
has last item^{op} MacBookAir_M1

AppleWatchSeries6_40mm_GPS_Cellularⁿⁱ back to ToC or Named Individual ToC

IRI: https://evilscript.altervista.org/productCatalog.owl#AppleWatchSeries6_40mm_GPS_Cellular_Nike

Top 2020 smartwatch made by Apple

belongs to

physical object^C
item^C
list item^C
smartwatch^C
product (business)^C
Device^C
PortableDevice^C
Product^C
product high^C
Smartwatch^C

has facts

item of^{op} AppleAccessories
is member of^{op} AppleAccessories
last item of^{op} AppleAccessories
previous item^{op} AirPods_wirelessCharge
has price^{op} 500Euro
directly precedes^{op} AirPods_wirelessCharge
precedes^{op} AirPods_wirelessCharge
precedes^{op} Lightning_cable
compatibleWith^{op} iPhone11_64
compatibleWith^{op} iPhone12_64
compatibleWith^{op} iPhoneX_64
designedBy^{op} Foxconn
hasBrand^{op} Apple
inCollabWith^{op} Nike
isContainedIn^{op} AppleCatalog

needsConnectionWith^{op} [iPhone11_64](#)
needsConnectionWith^{op} [iPhone12_64](#)
needsConnectionWith^{op} [iPhoneX_64](#)
producedBy^{op} [Qualcomm](#)
soldBy^{op} [Apple](#)
Color^{dp} *"Silver, Graphite (DLC), Gold (PVD)"^^string*
CpuType^{dp} *"Dual-core"^^string*
Depth^{dp} *"10.4"^^double*
EAN^{dp} *"A2293"^^string*
Height^{dp} *"40.0"^^double*
MemorySize^{dp} *"32"^^non negative integer*
OperatingSystem^{dp} *"watchOS 7.0"^^string*
Price^{dp} *"539.0"^^double*
ProductName^{dp} *"Apple Watch 6 Nike 40mm GPS+Cellular"^^string*
RamSize^{dp} *"1"^^non negative integer*
RollOutDate^{dp} *"2020-09-19T00:00:00"^^date time*
ScreenSize^{dp} *"1.57"^^double*
Weight^{dp} *"39.7"^^double*
Width^{dp} *"34.0"^^double*
Customer's range the product is made to^{dp} *"High"^^string*
isTouchScreen^{dp} *"true"^^boolean*

Asusⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Asus

AsusTek is a Taiwanese multinational computer and phone hardware and electronics company headquartered in Beitou District, Taipei, Taiwan.

belongs to
organization^c
[Company](#)^c
[Engineering](#)^c
[ITEngineering](#)^c
[Manufacturer](#)^c

has facts
designs^{op} [ZenBookFlip_S_UX371](#)
hasCatalog^{op} [AsusCatalog](#)
isBrandOf^{op} [ZenBookFlip_S_UX371](#)
manufacturersTo^{op} [Asus](#)
manufacturersTo^{op} [Huáshuò](#)
sells^{op} [ZenBookFlip_S_UX371](#)

AsusCatalogⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#AsusCatalog

Asus web site catalog

belongs to

Collection^c

ProductCatalog^c

SellingCatalog^c

catalog^c

has facts

has member^{op} AsusPC

contains^{op} ZenBookFlip_S_UX371

containsBrand^{op} Asus

AsusPCⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#AsusPC

Section of the Asus Product List that covers PCs

belongs to

(collections) Bag^c

Collection^c

list^c

ProductCatalog^c

catalog^c

has facts

has item^{op} ZenBookFlip_S_UX371

has member^{op} ZenBookFlip_S_UX371

is member of^{op} AsusCatalog

has first item^{op} ZenBookFlip_S_UX371

has last item^{op} ZenBookFlip_S_UX371

Beats_cuffieⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Beats_cuffie

Over ear made by BeatsAudio

belongs to

physical object^c

item^c

list item^c

headphones^c

product (business)^c

Accessory^c

EarPlugs^c

Product^c

has facts

item of^{op} BeatsEarPlugs
is member of^{op} BeatsEarPlugs
first item of^{op} BeatsEarPlugs
last item of^{op} BeatsEarPlugs
has price^{op} 200Euro
designedBy^{op} BeatsAudio
hasBrand^{op} BeatsAudio
isContainedIn^{op} AppleCatalog
producedBy^{op} ShortFactory
soldBy^{op} Apple

BeatsAudio^{ni}

IRI: https://evilscript.altervista.org/productCatalog.owl#BeatsAudio

Company that sells audio products

belongs to
organization^{c}
Company^{c}
Engineering^{c}
Manufacturer^{c}
has facts
designs^{op} Beats_cuffie
isBrandOf^{op} Beats_cuffie

BeatsEarPlugs^{ni}

IRI: https://evilscript.altervista.org/productCatalog.owl#BeatsEarPlugs

Section of the Beats Product List that covers Earplugs

belongs to
(collections) Bag^{c}
Collection^{c}
list^{c}
ProductCatalog^{c}
catalog^{c}
has facts
has item^{op} Beats_cuffie
has member^{op} Beats_cuffie
is member of^{op} AppleCatalog
has first item^{op} Beats_cuffie
has last item^{op} Beats_cuffie

Euro^{ni}

IRI: https://evilscript.altervista.org/productCatalog.owl#Euro

European Currency

belongs to
    Currency[c]

Foxconn[ni]

IRI: https://evilscript.altervista.org/productCatalog.owl#Foxconn

ITengineering company that designs CPUs for Apple

belongs to
    organization[c]
    BigEngineering[c]
    Company[c]
    Engineering[c]
    ITEngineering[c]
    Manufacturer[c]

has facts
    designs[op] AirPods_wirelessCharge
    designs[op] AppleWatchSeries6_40mm_GPS_Cellular
    designs[op] iPadAir_2020
    designs[op] iPhone11_64
    designs[op] MacBookAir_M1
    designs[op] iMac_27_RetinaDisplay_5k_256
    designs[op] iPhone12_64

Giovanni[ni]

IRI: https://evilscript.altervista.org/productCatalog.owl#Giovanni_PowerUser

belongs to
    person[c]
    PowerUser[c]
    User[c]

has facts
    buysProduct[op] MacBookAir_M1
    buysProduct[op] iPhone12_64

Huáshuò[ni]

IRI: https://evilscript.altervista.org/productCatalog.owl#Huáshuò

Huáshuò is a company under the favor of Samsung that produces many products

belongs to

organization^c
Company^c
Factory^c
Manufacturer^c

has facts

isManufacturerOf^{op} Samsung
produces^{op} SamsungGalaxyS10_global
produces^{op} SamsungGalaxyS20_5G_global
produces^{op} ZenBookFlip_S_UX371

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iMac_27_RetinaDisplay_5k_256ⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#iMac_27_RetinaDisplay_5k_256

All-in-one computer made by Apple

belongs to

physical object^c
item^c
list item^c
personal computer^c
product (business)^c
Computer^c
Device^c
NotPortableDevice^c
Product^c
product high^c

has facts

item of^{op} ApplePC
is member of^{op} ApplePC
first item of^{op} ApplePC
next item^{op} MacBookAir_M1
previous item^{op} iPhone11_64
has price^{op} 1800Euro
directly follows^{op} MacBookAir_M1
directly precedes^{op} iPhone11_64
follows^{op} MacBookAir_M1
precedes^{op} iPhone11_64
precedes^{op} iPhoneX_64
designedBy^{op} Foxconn
hasBrand^{op} Apple
isContainedIn^{op} AppleCatalog
producedBy^{op} Qualcomm
soldBy^{op} Apple
Color^{dp} *"Silver"^^string*
CpuType^{dp} *"Intel Core i5 6-core 10gen 3.1GHz (Turbo Boost 4.5GHz)"^^string*

Depth^{dp} *"203.0"^^double*
EAN^{dp} *"MXWT2LL/A"^^string*
Height^{dp} *"516.0"^^double*
MemorySize^{dp} *"256"^^non negative integer*
OperatingSystem^{dp} *"macOS Big Sur"^^string*
Price^{dp} *"1349.0"^^double*
ProductName^{dp} *"iMac 27 5K 256GB"^^string*
RamSize^{dp} *"8"^^non negative integer*
RamType^{dp} *"DDR4"^^string*
RollOutDate^{dp} *"2020-08-04T00:00:00"^^date time*
ScreenSize^{dp} *"27.0"^^double*
Weight^{dp} *"8920.0"^^double*
Width^{dp} *"650.0"^^double*
Customer's range the product is made to^{dp} *"High"^^string*
isTouchScreen^{dp} *"false"^^boolean*

iPadAir_2020ⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#IpadAir_2020

Tablet made by Apple

belongs to
physical object^c
item^c
list item^c
tablet computer^c
product (business)^c
Device^c
PortableDevice^c
Product^c
product medium^c
Tablet^c

has facts
item of^{op} AppleMobile
is member of^{op} AppleMobile
last item of^{op} AppleMobile
previous item^{op} iPhone12_64
has price^{op} 600Euro
directly precedes^{op} iPhone12_64
precedes^{op} iPhone12_64
containsInBox^{op} USBC_cable
designedBy^{op} Foxconn
hasBrand^{op} Apple
isContainedIn^{op} AppleCatalog
producedBy^{op} Qualcomm
soldBy^{op} Apple

CameraMegaPixels^{dp} *"12.0"^^double*
ChargingPortType^{dp} *"USB-C"^^string*
Color^{dp} *"Space Gray, Silver, Rose Gold, Green, Sky Blue"^^string*
CpuType^{dp} *"Apple A14 Bionic (5 nm)"^^string*
Depth^{dp} *"6.1"^^double*
Height^{dp} *"247.6"^^double*
MemorySize^{dp} *"64"^^non negative integer*
OperatingSystem^{dp} *"iPadOS 14.1"^^string*
Price^{dp} *"640.0"^^double*
ProductName^{dp} *"Apple iPad Air (2020)"^^string*
RamSize^{dp} *"3"^^non negative integer*
RollOutDate^{dp} *"2020-09-15T00:00:00"^^date time*
ScreenSize^{dp} *"10.9"^^double*
Weight^{dp} *"458.0"^^double*
Width^{dp} *"178.5"^^double*
Customer's range the product is made to^{dp} *"Medium"^^string*
isTouchScreen^{dp} *"true"^^boolean*

iPhone11_64ⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Iphone11_64

Top 2019 smartphone made by Apple

belongs to
physical object^c
item^c
list item^c
smartphone^c
product (business)^c
Device^c
PortableDevice^c
Product^c
product medium^c
Smartphone^c

has facts
item of^{op} AppleMobile
is member of^{op} AppleMobile
next item^{op} iMac_27_RetinaDisplay_5k_256
previous item^{op} iPhoneX_64
has price^{op} 600Euro
directly follows^{op} iMac_27_RetinaDisplay_5k_256
directly precedes^{op} iPhoneX_64
follows^{op} MacBookAir_M1
follows^{op} iMac_27_RetinaDisplay_5k_256
precedes^{op} iPhoneX_64
containsInBox^{op} Lightning_cable

designedBy^{op} Foxconn
hasBrand^{op} Apple
isContainedIn^{op} AppleCatalog
predecessorOf^{op} iPhone12_64
producedBy^{op} Qualcomm
soldBy^{op} Apple
successorOf^{op} iPhoneX_64
CameraMegaPixels^{dp} *"12.0"^^double*
ChargingPortType^{dp} *"Lightning"^^string*
Color^{dp} *"Black, Green, Yellow, Purple, Red, White"^^string*
CpuType^{dp} *"Apple A13 Bionic"^^string*
Depth^{dp} *"8.3"^^double*
EAN^{dp} *"A2221"^^string*
Height^{dp} *"150.9"^^double*
MemorySize^{dp} *"64"^^integer*
MemorySize^{dp} *"64"^^non negative integer*
OperatingSystem^{dp} *"iOS 13"^^string*
Price^{dp} *"719.0"^^double*
ProductName^{dp} *"Iphone 11 64GB"^^string*
RamSize^{dp} *"4"^^non negative integer*
RollOutDate^{dp} *"2019-09-20T00:00:00"^^date time*
ScreenSize^{dp} *"6.1"^^double*
Weight^{dp} *"194.0"^^double*
Width^{dp} *"75.7"^^double*
Customer's range the product is made to^{dp} *"Medium"^^string*
isTouchScreen^{dp} *"true"^^boolean*

iPhone12_64ⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#iPhone12_64

Top 2020 smarphone made by Apple

belongs to
physical object^c
item^c
list item^c
smartphone^c
product (business)^c
Device^c
PortableDevice^c
Product^c
product high^c
Smartphone^c

has facts
item of^{op} AppleMobile
is member of^{op} AppleMobile

next item^{op} iPadAir_2020
has price^{op} 800Euro
directly follows^{op} iPadAir_2020
follows^{op} iPadAir_2020
containsInBox^{op} Lightning_cable
designedBy^{op} Foxconn
hasBrand^{op} Apple
isContainedIn^{op} AppleCatalog
producedBy^{op} Qualcomm
soldBy^{op} Apple
successorOf^{op} iPhone11_64
CameraMegaPixels^{dp} *"12.0"^^double*
ChargingPortType^{dp} *"Lightning"^^string*
Color^{dp} *"Black, White, Red, Green, Blue"^^string*
CpuType^{dp} *"A14 Bionic"^^string*
Depth^{dp} *"7.4"^^double*
EAN^{dp} *"A2172"^^string*
Height^{dp} *"146.7"^^double*
MemorySize^{dp} *"64"^^integer*
MemorySize^{dp} *"64"^^non negative integer*
OperatingSystem^{dp} *"iOS 14"^^string*
Price^{dp} *"939.0"^^double*
ProductName^{dp} *"Iphone12 64 GB"^^string*
RamSize^{dp} *"4"^^non negative integer*
RollOutDate^{dp} *"2020-10-23T00:00:00"^^date time*
ScreenSize^{dp} *"6.1"^^double*
Weight^{dp} *"162.0"^^double*
Width^{dp} *"71.5"^^double*
Customer's range the product is made to^{dp} *"High"^^string*
isTouchScreen^{dp} *"true"^^boolean*

---

iPhoneX_64ⁿⁱ

back to ToC or Named Individual ToC

IRI: https://evilscript.altervista.org/productCatalog.owl#iPhoneX_64

iPhone X, 64GB edition

belongs to
physical object^c
item^c
list item^c
smartphone^c
product (business)^c
Device^c
PortableDevice^c
Product^c
Smartphone^c

has facts

item of^{op} AppleMobile
is member of^{op} AppleMobile
first item of^{op} AppleMobile
next item^{op} iPhone11_64
has price^{op} 500Euro
directly follows^{op} iPhone11_64
follows^{op} iPhone11_64
follows^{op} MacBookAir_M1
follows^{op} iMac_27_RetinaDisplay_5k_256
containsInBox^{op} Lightning_cable
hasBrand^{op} Apple
isContainedIn^{op} AppleCatalog
predecessorOf^{op} iPhone11_64
soldBy^{op} Apple
ProductName^{dp} *"iPhone X 64GB"^^string*

Lightning_cableⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Lightning_cable

The standard cable for iPhones

belongs to

physical object^c
item^c
list item^c
power cable^c
product (business)^c
Accessory^c
cable^c
Product^c

has facts

item of^{op} AppleAccessories
is member of^{op} AppleAccessories
first item of^{op} AppleAccessories
next item^{op} AirPods_wirelessCharge
has price^{op} 10Euro
directly follows^{op} AirPods_wirelessCharge
follows^{op} AirPods_wirelessCharge
follows^{op} AppleWatchSeries6_40mm_GPS_Cellular
hasBrand^{op} Apple
inBoxOf^{op} AirPods_wirelessCharge
inBoxOf^{op} iPhone11_64
inBoxOf^{op} iPhone12_64
inBoxOf^{op} iPhoneX_64
isContainedIn^{op} AppleCatalog

soldBy^{op} Apple

MacBookAir_M1ⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#MacBookAir_M1

Laptop with M1 Chip made by Apple

belongs to

physical object^c
item^c
list item^c
laptop^c
product (business)^c
Device^c
Laptop^c
PortableDevice^c
Product^c
product medium^c

has facts

item of^{op} ApplePC
is member of^{op} ApplePC
last item of^{op} ApplePC
previous item^{op} iMac_27_RetinaDisplay_5k_256
has price^{op} 1000Euro
directly precedes^{op} iMac_27_RetinaDisplay_5k_256
precedes^{op} iPhone11_64
precedes^{op} iMac_27_RetinaDisplay_5k_256
precedes^{op} iPhoneX_64
designedBy^{op} Foxconn
hasBrand^{op} Apple
isContainedIn^{op} AppleCatalog
producedBy^{op} Qualcomm
soldBy^{op} Apple
ChargingPortType^{dp} *"USB-C"^^string*
Color^{dp} *"Gold, Silver, Space Gray"^^string*
CpuType^{dp} *"Apple M1 chip"^^string*
Depth^{dp} *"212.4"^^double*
Height^{dp} *"16.1"^^double*
MemorySize^{dp} *"256"^^non negative integer*
OperatingSystem^{dp} *"macOS Big Sur"^^string*
Price^{dp} *"1159.0"^^double*
ProductName^{dp} *"MacBook Air (M1, 2020)"^^string*
RamSize^{dp} *"8"^^non negative integer*
RamType^{dp} *"DDR4"^^string*
RollOutDate^{dp} *"2020-11-17T00:00:00"^^date time*
ScreenSize^{dp} *"13.3"^^double*

Weight^{dp} *"1.29"^^double*
Width^{dp} *"304.1"^^double*
Customer's range the product is made to^{dp} *"Medium"^^string*
isTouchScreen^{dp} *"false"^^boolean*

Michelaⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Michela_CasualUser

belongs to
person^c
User^c

has facts
buysFrom^{op} SamsungCatalog
buysProduct^{op} SamsungGalaxyS10_global

Nikeⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Nike

A company that sells sports products

belongs to
organization^c
Company^c

Qualcommⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Qualcomm

Factory company that produces CPUs for Apple

belongs to
organization^c
Company^c
Factory^c
Manufacturer^c

has facts
produces^{op} AirPods_wirelessCharge
produces^{op} AppleWatchSeries6_40mm_GPS_Cellular
produces^{op} iPadAir_2020
produces^{op} iPhone11_64
produces^{op} MacBookAir_M1
produces^{op} iMac_27_RetinaDisplay_5k_256
produces^{op} iPhone12_64

Samsungⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#Samsung

Samsung is a South Korean multinational electronics company headquartered in the Yeongtong District of Suwon

belongs to
organization^c
Company^c
Manufacturer^c

has facts
brandContainedIn^{op} SamsungCatalog
hasCatalog^{op} SamsungCatalog
isBrandOf^{op} SamsungGalaxyS10_global
isBrandOf^{op} SamsungGalaxyS20_5G_global
isBrandOf^{op} USBC_cable
manufacturersTo^{op} Huáshuò
manufacturersTo^{op} ShortEngineer
putInBoxes^{op} USBC_cable
sells^{op} SamsungGalaxyS10_global
sells^{op} SamsungGalaxyS20_5G_global
sells^{op} USBC_cable

SamsungAccessoriesⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#SamsungAccessories

Section of the Samsung Product List that covers Accessories

belongs to
(collections) Bag^c
Collection^c
list^c
ProductCatalog^c
catalog^c

has facts
has item^{op} USBC_cable
has member^{op} USBC_cable
is member of^{op} SamsungCatalog
has first item^{op} USBC_cable
has last item^{op} USBC_cable

SamsungCatalogⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#SamsungCatalag

Samsung web site catalog

belongs to
[Collection](#)^c
[ProductCatalog](#)^c
[SellingCatalog](#)^c
catalog^c

has facts
[has member](#)^{op} [SamsungAccessories](#)
[has member](#)^{op} [SamsungGalaxy](#)
[contains](#)^{op} [SamsungGalaxyS10_global](#)
[contains](#)^{op} [SamsungGalaxyS20_5G_global](#)
[contains](#)^{op} [USBC_cable](#)
[containsBrand](#)^{op} [Samsung](#)

SamsungGalaxy^{ni}

IRI: https://evilscript.altervista.org/productCatalog.owl#SamsungGalaxy

Section of the Samsung Product List that covers Phones

belongs to
[(collections) Bag](#)^c
[Collection](#)^c
[list](#)^c
[ProductCatalog](#)^c
catalog^c

has facts
[has item](#)^{op} [SamsungGalaxyS10_global](#)
[has item](#)^{op} [SamsungGalaxyS20_5G_global](#)
[has member](#)^{op} [SamsungGalaxyS10_global](#)
[has member](#)^{op} [SamsungGalaxyS20_5G_global](#)
[is member of](#)^{op} [SamsungCatalog](#)
[has first item](#)^{op} [SamsungGalaxyS10_global](#)
[has last item](#)^{op} [SamsungGalaxyS20_5G_global](#)

SamsungGalaxyS10_global^{ni}

IRI: https://evilscript.altervista.org/productCatalog.owl#SamsungGalaxyS10_global

belongs to
physical object^c
[item](#)^c
[list item](#)^c
[smartphone](#)^c
[product (business)](#)^c
[Device](#)^c

PortableDevice^c
Product^c
product medium^c
Smartphone^c

has facts

item of^{op} SamsungGalaxy
is member of^{op} SamsungGalaxy
first item of^{op} SamsungGalaxy
next item^{op} SamsungGalaxyS20_5G_global
has price^{op} 500Euro
directly follows^{op} SamsungGalaxyS20_5G_global
follows^{op} SamsungGalaxyS20_5G_global
containsInBox^{op} USBC_cable
designedBy^{op} ShortEngineer
hasBrand^{op} Samsung
isContainedIn^{op} SamsungCatalog
predecessorOf^{op} SamsungGalaxyS20_5G_global
producedBy^{op} Huáshuò
soldBy^{op} Samsung
CameraMegaPixels^{dp} *"16.0"^^double*
ChargingPortType^{dp} *"USB-C"^^string*
Color^{dp} *"Prism White, Prism Black, Prism Green, Prism Blue, Canary Yellow, Flamingo Pink, Cardinal Red, Smoke Blue"^^string*
CpuType^{dp} *"Exynos 9820 (8 nm)"^^string*
Depth^{dp} *"7.8"^^double*
EAN^{dp} *"SM-G973F/DS"^^string*
Height^{dp} *"149.9"^^double*
MemorySize^{dp} *"128"^^non negative integer*
OperatingSystem^{dp} *"Android9"^^string*
Price^{dp} *"549.0"^^double*
ProductName^{dp} *"Samsung Galaxy S10 128"^^string*
RamSize^{dp} *"8"^^non negative integer*
RollOutDate^{dp} *"2019-03-09T00:00:00"^^date time*
ScreenSize^{dp} *"6.1"^^double*
Weight^{dp} *"157.0"^^double*
Width^{dp} *"70.4"^^double*
Customer's range the product is made to^{dp} *"Medium"^^string*
isTouchScreen^{dp} *"true"^^boolean*

SamsungGalaxyS20_5G_globalⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#SamsungGalaxyS20_5G_global

Smarphone made by Samsung

belongs to
physical object^c

item^c
list item^c
smartphone^c
product (business)^c
Device^c
PortableDevice^c
Product^c
product high^c
Smartphone^c

has facts

item of^{op} SamsungGalaxy
is member of^{op} SamsungGalaxy
last item of^{op} SamsungGalaxy
previous item^{op} SamsungGalaxyS10_global
has price^{op} 800Euro
directly precedes^{op} SamsungGalaxyS10_global
precedes^{op} SamsungGalaxyS10_global
containsInBox^{op} USBC_cable
designedBy^{op} ShortEngineer
hasBrand^{op} Samsung
isContainedIn^{op} SamsungCatalog
producedBy^{op} Huáshuò
soldBy^{op} Samsung
successorOf^{op} SamsungGalaxyS10_global
CameraMegaPixels^{dp} *"64.0"^^double*
ChargingPortType^{dp} *"USB-C"^^string*
Color^{dp} *"Cosmic Grey, Cloud Blue, Cloud Pink, Cloud White, Aura Red"^^string*
CpuType^{dp} *"Exynos 990 (7 nm+)"^^string*
Depth^{dp} *"7.9"^^double*
EAN^{dp} *"SM-G981F"^^string*
Height^{dp} *"15.7"^^double*
MemorySize^{dp} *"128"^^non negative integer*
OperatingSystem^{dp} *"Android10"^^string*
Price^{dp} *"1029.0"^^double*
ProductName^{dp} *"Samsung Galaxy S20 5G 128"^^string*
RamSize^{dp} *"8"^^non negative integer*
RollOutDate^{dp} *"2020-03-06T00:00:00"^^date time*
ScreenSize^{dp} *"6.2"^^double*
Weight^{dp} *"163.0"^^double*
Width^{dp} *"69.1"^^double*
Customer's range the product is made to^{dp} *"High"^^string*
isTouchScreen^{dp} *"true"^^boolean*

ShortEngineerⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#ShortEngineer

A company that does not exist

belongs to
organization^c
Company^c
Engineering^c
ITEngineering^c
Manufacturer^c
has facts
designs^{op} SamsungGalaxyS10_global
designs^{op} SamsungGalaxyS20_5G_global
isManufacturerOf^{op} Samsung

ShortFactory^{ni}

IRI: https://evilscript.altervista.org/productCatalog.owl#ShortFactory

A small product factory that only produces Beats!

belongs to
organization^c
Company^c
Factory^c
Manufacturer^c
has facts
produces^{op} Beats_cuffie

USBC_cable^{ni}

IRI: https://evilscript.altervista.org/productCatalog.owl#USBC_cable

The new world standard for USB communication

belongs to
physical object^c
item^c
list item^c
power cable^c
product (business)^c
Accessory^c
cable^c
Product^c
has facts
item of^{op} SamsungAccessories
is member of^{op} SamsungAccessories
first item of^{op} SamsungAccessories
last item of^{op} SamsungAccessories

hasBrand^{op} Samsung
inBoxOf^{op} iPadAir_2020
inBoxOf^{op} SamsungGalaxyS10_global
inBoxOf^{op} SamsungGalaxyS20_5G_global
isContainedIn^{op} SamsungCatalog
soldBy^{op} Samsung
ProductName^{dp} *"USB-C Cable"^^string*

ZenBookFlip_S_UX371ⁿⁱ

IRI: https://evilscript.altervista.org/productCatalog.owl#ZenBookFlip_S_UX371

2-in-1 made by Asus

belongs to

physical object^c
item^c
list item^c
2 in 1 p c^c
product (business)^c
Device^c
PortableDevice^c
Product^c
2in1^c

has facts

item of^{op} AsusPC
is member of^{op} AsusPC
first item of^{op} AsusPC
last item of^{op} AsusPC
has price^{op} 1800Euro
designedBy^{op} Asus
hasBrand^{op} Asus
isContainedIn^{op} AsusCatalog
producedBy^{op} Huáshuò
soldBy^{op} Asus
CameraMegaPixels^{dp} *"1.2"^^double*
ChargingPortType^{dp} *"USB-C"^^string*
Color^{dp} *"Nero jada"^^string*
CpuType^{dp} *"Intel Core i7-1165G7"^^string*
Depth^{dp} *"1.19"^^double*
EAN^{dp} *"UX371EA"^^string*
Height^{dp} *"21.1"^^double*
Height^{dp} *"30.5"^^double*
MemorySize^{dp} *"1000"^^non negative integer*
OperatingSystem^{dp} *"Windows 10 Home"^^string*
Price^{dp} *"1599.0"^^double*
ProductName^{dp} *"ZenBook Flip S UX371"^^string*

RamSize^{dp} *"16"^^non negative integer*
RamType^{dp} *"LPDDR4X on-board"^^string*
RollOutDate^{dp} *"2020-08-21T00:00:00"^^date time*
ScreenSize^{dp} *"13.3"^^double*
Weight^{dp} *"1200.0"^^double*
isTouchScreen^{dp} *"true"^^boolean*

Annotation Properties

covers requirements   creator   date   description   extracted from
has author   has component   has consequences   has intent
is specialization of   preferred namespace prefix   preferred namespace uri
reengineered from   related c ps   scenarios

covers requirements^{ap}

back to ToC or Annotation Property ToC

IRI: http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#coversRequirements

This annotation property is used for exemplifying possible requirements the content pattern provides a solution for. Requirements are expressed as natural language competency questions.

creator^{ap}

back to ToC or Annotation Property ToC

IRI: http://purl.org/dc/elements/1.1/creator

date^{ap}

back to ToC or Annotation Property ToC

IRI: http://purl.org/dc/elements/1.1/date

description^{ap}

back to ToC or Annotation Property ToC

IRI: http://purl.org/dc/elements/1.1/description

extracted from^{ap}

back to ToC or Annotation Property ToC

IRI: http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#extractedFrom

This annotation property should be assigned with a URI, which points to the possible reference ontology which the annotated pattern was extracted from (i.e. the reference ontology that the ontology elements have been deeply or partially cloned by). The range is not explicit in the definition of the annotation property because it

would turn the ontology to OWL Full. E.g. The participation pattern is extracted from the Dolce Ultra Lite ontology, hence the value for this annotation property is http://www.ontologydesignpatterns.org/ont/dul/DUL.owl

has author^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#hasAuthor

has component^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#hasComponent

This annotation property is useful for content ontology design patterns. Its value is a URI, which refers to another content ontology design pattern which is a component of the annotated one.

has consequences^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#hasConsequences

This annotation property is used for briefly describing the benefits and/or possible trade-offs when using the CP.

has intent^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#hasIntent

This annotation property is used in order to describe the intent of the content pattern.

is specialization of^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#isSpecializationOf

This annotation property is useful for content ontology design patterns and its elements. Its value is a URI, which refers either to a content ontology design pattern that is specialized by the annotated one, or to an ontology element that is specialized by the annotated one.

preferred namespace prefix^{ap}

IRI: http://purl.org/vocab/vann/preferredNamespacePrefix

preferred namespace uri^{ap}

IRI: http://purl.org/vocab/vann/preferredNamespaceUri

reengineered from^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#reengineeredFrom

This annotation property should be assigned with a URI, which points to the concept schema, page, or anything else from which the annotated pattern was reengineered. If the source does not have any URI e.g., a printed book, this property value should provide information as precise as possible in order to identify the source. This property is alternative to the extractedFrom property because it is used when the pattern come from a concept schema which is not an owl ontology. For example content ontology design patterns, which are reengineered from data model patterns, rdf schemas, etc. should be annotatd with this property. E.g. The basicpersonalfoaf pattern is extracted from the rdf FOAF specification, hence the value for this annotation property is http://xmlns.com/foaf/spec/20071002.rdf

related c ps^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#relatedCPs

This annotation property can be used to indicate other CPs (if any) that specialize, generalize, inlcude, or are components of the CP. Furthermore, this field may indicate other CPs that are typically used in conjunction with the described one. Important similarities and differences with other patterns can be also described here.

scenarios^{ap}

IRI: http://www.ontologydesignpatterns.org/schemas /cpannotationschema.owl#scenarios

This annotation property is used for describing examples of instantiation of the Content OP. For example, for the part-of Content OP (which represents part-whole relations) a possible scenario is the sentence: "the brain is part of the human body". Scenarios are expressed as natural language sentences.

Namespace Declarations

default namespace

https://evilscript.altervista.org/productCatalog.owl#

0-1
> http://xmlns.com/foaf/0.1/

bag
> http://www.ontologydesignpatterns.org/cp/owl/bag.owl#

collectionentity
> http://www.ontologydesignpatterns.org/cp/owl/collectionentity.owl#

cpannotationschema
> http://www.ontologydesignpatterns.org/schemas/cpannotationschema.owl#

dc
> http://purl.org/dc/elements/1.1/

dcat
> https://www.w3.org/ns/dcat#

dcmitype
> http://purl.org/dc/dcmitype/

evilscript-altervista-org
> https://evilscript.altervista.org/

id
> http://www.productontology.org/id/

list
> http://www.ontologydesignpatterns.org/cp/owl/list.owl#

owl
> http://www.w3.org/2002/07/owl#

price
> http://www.ontologydesignpatterns.org/cp/owl/price.owl#

productCatalog
> https://evilscript.altervista.org/productCatalog.owl#

rdf
> http://www.w3.org/1999/02/22-rdf-syntax-ns#

rdfs
> http://www.w3.org/2000/01/rdf-schema#

sequence
> http://www.ontologydesignpatterns.org/cp/owl/sequence.owl#

vann
> http://purl.org/vocab/vann/

xsd
> http://www.w3.org/2001/XMLSchema#