

present-- browse-- identify

Find elements belonging to a specific set



Find all fruits

ABTD3V1001

present-- locate-- identify

Find sets containing a specific element



What category(s) do(es) apple belong to ?

ABTD3V1002

present-- explore-- identify

Find elements based on their set memberships



Which element is green and red?

ABTD3V1003

present-- explore-- identify

Find elements with a specific set membership degree



Which element belongs to 3 categories?

ABTD3V1004

present-- explore-- summarize

Filter out elements based on their set membership degrees



Hide element(s) that belong(s) to more than 1 categories

ABTD3V1005

present-- browse-- summarize

Filter out elements based on their set memberships

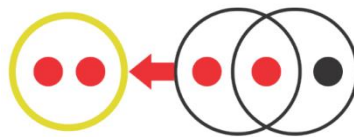


Hide element(s) that is both green and fruit

ABTD3V1006

produce-- --

Create a new set that contains certain element

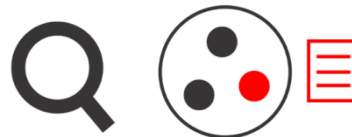


Create a set called delicious, put apple and orange inside

ABTD3V1007

present-- look up-- identify

Find attribute values of a certain element



Find out the price of apple

ABTD3V1008

discover-- browse-- comparison

Find the distribution of an attribute in a certain set or subset

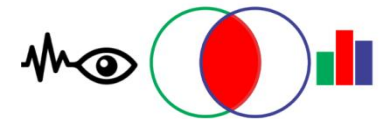


Find out the price distribution in fruit

ABTD3V1009

present-- look up-- comparison

Compare the attribute values of sets or set intersections

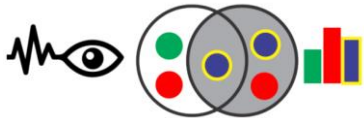


What's the most expensive fruit?

ABTD3V1010

discover-- browse-- comparison

Analyze the set memberships for elements having certain attribute values

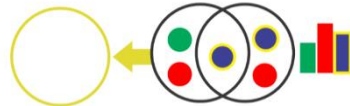


Are there any two items that are more expensive than 4 dollars belong to the same category?

ABTD3V1011

produce-- --

Create a new set out of elements having certain attribute values

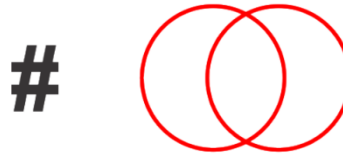


Add a category of "expensive" and put all elements that are more expensive than 5 dollars inside of this category.

ABTD3V1012

present-- browse-- comparison

Find the number of sets in the set family



How many categories are there?

ABTD3V1013

discover-- browse/explore-- summary

Analyze exclusion relations



How many categories have exclusion relationship?

ABTD3V1014

discover-- browse/explore-- summary

Analyze intersection relations



How many categories are intersect with other categories?

ABTD3V1015

present-- browse?look up?-- summary

Find intersections between k sets

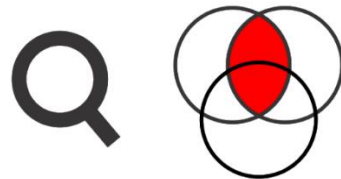


What are the elements that is both fruit and vegetable?

ABTD3V1016

present-- lookup-- summary

Find sets involved in certain intersection



Which category share common element with red?

ABTD3V1017

present-- lookup-- summary

Find set intersections of a specific set

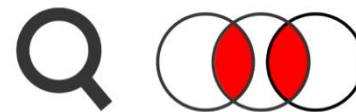


What category(s) does fruit intersect with?

ABTD3V1018

present-- explore-- summary

Find the set with largest pairwise set intersection

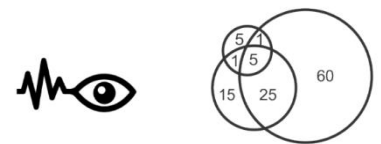


Which category has intersected with most number of categories?

ABTD3V1019

discover-- browse/explore-- summary

Analyze set&set intersection cardinalities



What 's the number of unique elements in each category?

ABTD3V1020

discover-- browse/explore--
summary

discover-- browse/explore--
summary

present-- browse-- summary

produce-- --

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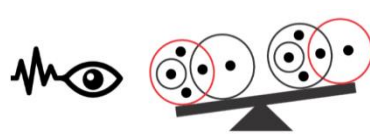
Analyze and compare set similarities



What are the similarities between fruit and red?

ABTD3V1021

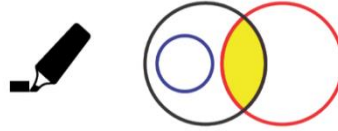
Analyze and compare set exclusiveness



What are the difference between fruit and red?

ABTD3V1022

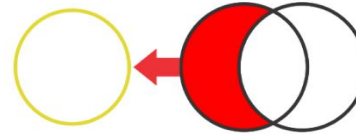
Highlight specific sets, subsets or set relations



Highlight elements that are both fruit and vegetable

ABTD3V1023

Create a new set using set-theoretical operations



Create a new set, put all unique elements in each categories into the set (find unique element is another task)

ABTD3V1024

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