

present-- browse-- identify

**Find elements belonging to a specific set**

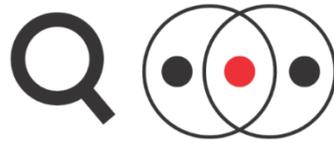


*Find all fruits*

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**

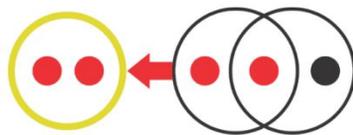


*Hide element(s) that is both green and fruit*

ABTD3V1006

produce-- --

**Create a new set that contains certain element**

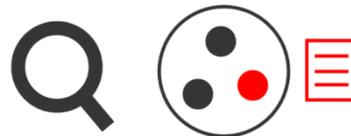


*Create a set called delicious, put apple and orange inside*

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**

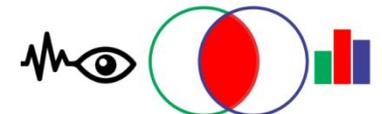


*Find out the price distribution in fruit*

ABTD3V1009

present-- look up-- comparison

**Compare the attribute values of sets or set intersections**

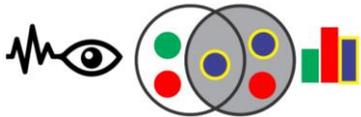


*What's the most expensive fruit?*

ABTD3V1010

discover-- browse-- comparison

Analyze the set memberships for elements having certain attribute values

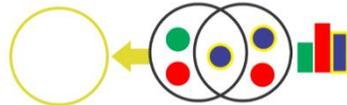


Are there any two items that are more expensive than 4 dollars belong to the same category?

ABTD3V1011

produce-- --

Create a new set out of elements having certain attribute values

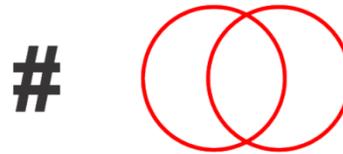


Add a category of "expensive" and put all elements that are more expensive than 5 dollars inside of this category.

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

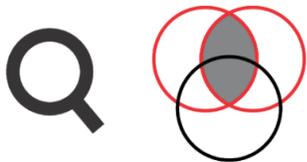


How many categories are intersect with other categories?

ABTD3V1015

present-- browse?look up?-- summary

Find intersections between k sets

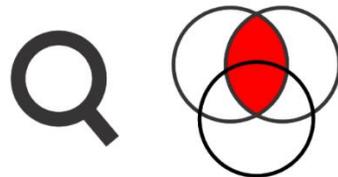


What are the elements that is both fruit and vegetable?

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

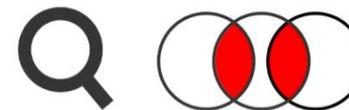


What category(s) does fruit intersect with?

ABTD3V1018

present-- explore-- summary

Find the set with largest pairwise set intersection

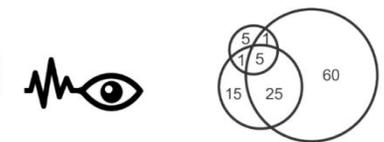


Which category has intersected with most number of categories?

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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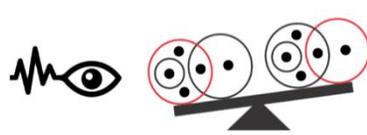
### Analyze and compare set similarities



*What are the similarities between fruit and red?*

ABTD3V1021

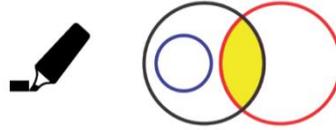
### Analyze and compare set exclusiveness



*What are the difference between fruit and red?*

ABTD3V1022

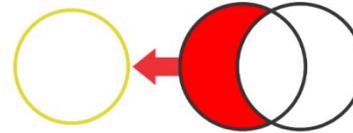
### Highlight specific sets, subsets or set relations



*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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