

# Orange Associate 安裝

- 於Options>Add-ons...點選Orange3-Associate安裝
- 安裝完成即可於Orange介面看到Associate功能

The image illustrates the process of installing the Orange3-Associate add-on. It is divided into three main sections:

- Top Left:** A screenshot of the Orange3 main window's menu bar. The 'Options' menu is open, and the 'Add-ons...' option is highlighted with a green arrow pointing towards the 'Add-ons' dialog box.
- Center:** A screenshot of the 'Add-ons' dialog box. It contains a table of available add-ons. The 'Orange3-Associate' add-on is selected, and its action is 'Install'. A green arrow points from this dialog box to the bottom-left section.
- Bottom Left:** A screenshot of the 'Associate' widget in the Orange3 interface. It shows two tabs: 'Frequent Itemsets' and 'Association Rules', with the 'Association Rules' tab currently active.

**Add-ons Dialog Box Details:**

Name	Version	Action
<input checked="" type="checkbox"/> Orange3-Associate	1.1.6	Install
<input type="checkbox"/> Orange3-Bioinformatics	4.0.0	
<input type="checkbox"/> Orange3-Educational	0.3.1	
<input type="checkbox"/> Orange3-Geo	0.2.8	
<input type="checkbox"/> Orange3-ImageAnalytics	0.5.3	
<input type="checkbox"/> Orange3-Network	1.5.1	
<input type="checkbox"/> Orange3-Prototypes	0.12.0	
<input type="checkbox"/> Orange3-SingleCell	1.3.0	
<input type="checkbox"/> Orange3-Spectroscopy	0.5.4	

**Orange3-Associate Description:**

Orange add-on for enumerating frequent itemsets and association rules mining.  
See [documentation](#).

**Features**

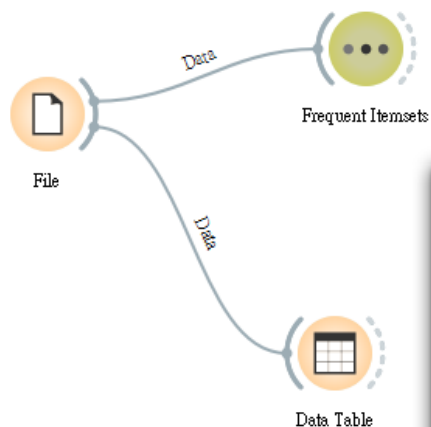
**Association Rules**

- induce association and classification rules
- filter rules by the antecedent or consequent part.

Buttons: OK, Cancel

# Orange Associate 操作畫面

- File選擇輸入檔
- DataTable可檢視資料狀態

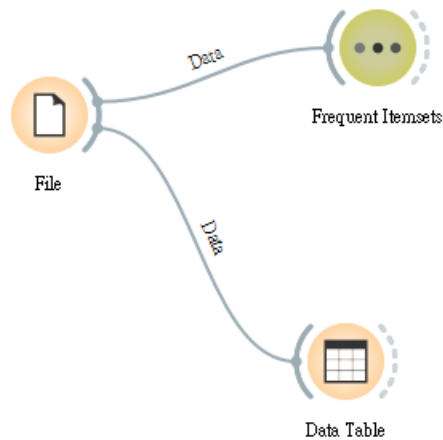


1	A	B	C	D
2		1		1
3		1		1
4		1	1	1
5			1	1
6			1	1

Data Table				
Variables				
<input checked="" type="checkbox"/> Show variable labels (if present)				
<input type="checkbox"/> Visualize numeric values				
<input checked="" type="checkbox"/> Color by instance classes				
Selection				
<input checked="" type="checkbox"/> Select full rows				
	A	B	C	D
1	1	?	1	1
2	1	?	1	?
3	1	1	1	1
4	?	1	1	1
5	?	1	1	?

# Orange Associate: Frequent Itemsets

- File連接物件Frequent Itemsets可依參數設定得到頻繁項目集
- 參數設定修改立即可看出頻繁項目集被篩選結果的變化



The screenshot shows the 'Frequent Itemsets' widget window. It has a title bar with standard window controls. The interface is divided into several sections:

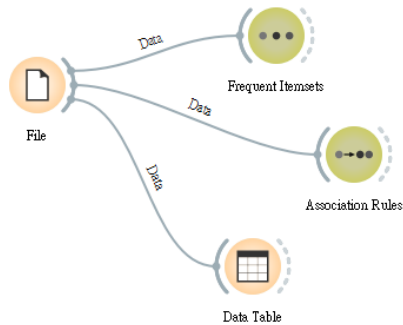
- Info:** Displays 'Number of itemsets: 7', 'Selected itemsets: 0', and 'Selected examples: 0'. It includes 'Expand all' and 'Collapse all' buttons.
- Find itemsets:** Contains a 'Minimal support' slider set to 50% and a 'Max. number of itemsets' slider set to 10000. There is a checked checkbox and a 'Find Itemsets' button.
- Filter itemsets:** Includes a 'Contains:' text field, 'Min. items:' and 'Max. items:' spinners (set to 1 and 999 respectively), and a checked checkbox for 'Apply these filters in search'.
- Send Selection Automatically:** A checked checkbox.

On the right side, there is a table of results:

Itemsets	Support	%
▲ A=1	3	60
C=1	3	60
▲ B=1	3	60
C=1	3	60
▲ C=1	5	100
D=1	3	60
D=1	3	60

# Orange Associate: Association Rules

- File連接物件Association Rules可依參數設定得到關聯規則
- 參數設定修改立即可看出關聯規則篩選結果的變化



\*\*\* Association Rules

Info  
Number of rules: 7  
Filtered rules: 7  
Selected rules: 0  
Selected examples: 0

Find association rules  
Minimal support: 20%  
Minimal confidence: 90%  
Max. number of rules: 10000  
☐ Induce classification (itemset  $\rightarrow$  class) rules  
☒ Find Rules

Filter rules  
Antecedent  
Contains:  
Min. items: 1 Max. items: 999  
Consequent  
Contains:  
Min. items: 1 Max. items: 999  
☒ Apply these filters in search  
☒ Send Selection Automatically

Supp	Conf	Covr	Strg	Lift	Levr	Antecedent	Consequent
0.400	1.000	0.400	2.500	1.000	0.000	A=1, D=1	C=1
0.400	1.000	0.400	2.500	1.000	0.000	B=1, D=1	C=1
0.200	1.000	0.200	5.000	1.000	0.000	A=1, B=1	C=1
0.200	1.000	0.200	3.000	1.667	0.080	A=1, B=1	D=1
0.200	1.000	0.200	5.000	1.000	0.000	A=1, B=1, D=1	C=1
0.200	1.000	0.200	3.000	1.667	0.080	A=1, B=1, C=1	D=1
0.200	1.000	0.200	3.000	1.667	0.080	A=1, B=1	C=1, D=1