

KnowledgeMiner Dictionary

Standard Suite: *Common terms for most applications*

close: Close an object

close reference -- *the object to close*

[**saving** yes/no/ask] -- *specifies whether changes should be saved before closing*

[**saving in** alias] -- *the file in which to save the object*

count: Return the number of elements of a particular class within an object

count reference -- *the object whose elements are to be counted*

each type class -- *the class of the elements to be counted*

Result: integer -- *the number of elements*

data size: Return the size in bytes of an object

data size reference -- *the object whose data size is to be returned*

[**as** type class] -- *the data type for which the size is calculated*

Result: integer -- *the size of the object in bytes*

delete: Delete an element from an object

delete reference -- *the element to delete*

exists: Verify if an object exists

exists reference -- *the object in question*

Result: boolean -- *true if it exists, false if not*

open: Open a document from the Finder

open reference -- *object to open*

print: Print a document from the Finder

print reference -- *object to print*

quit: Quit the program

quit

save: Save an document

save reference -- *the object to save*

[**in** alias] -- *the file in which to save the object*

get: Get the data for an object

get reference -- *the object whose data is to be returned*

[**as** type class] -- *the desired types for the data, in order of preference*

Result: anything -- *the data from the object*

set: Set an object's data

set reference -- *the object to change*

to anything -- *the new value*

make new document: Make a new document
make new document

select: Select an object

select reference -- the object(s) to select

[**union** boolean] -- add this selection to the existing selection?

Class application: An application program

Elements:

document by numeric index, by name

window by numeric index, by name

Properties:

frontmost boolean [r/o] -- Is this the frontmost application?

name international text [r/o] -- the name

selection selection [r/o] -- the selection visible to the user

version version [r/o] -- the version number of the application

class type class [r/o] -- the class

Class document: A document

Elements:

table by numeric index, by name

Properties:

modified boolean [r/o] -- Has the document been modified since the last save?

name international text -- the name

selection selection -- the selection visible to the user

class type class [r/o] -- the class

Class window: A window

Properties:

name international text [r/o] -- The title of the window

index integer [r/o] -- The window's fixed index

class type class [r/o] -- The class

Class selection: the selection visible to the user

Properties:

contents type class [r/o] -- the contents of the selection

class type class [r/o] -- the class

Miscellaneous Standards: *Miscellaneous standard events and classes*

revert: Revert the document to its last saved state

revert

cut: Cut an object to the clipboard

cut

copy: Copy an object to the clipboard
copy

paste: Paste an object from the clipboard
paste

redo: Reverse the action of the immediately preceding undo
redo

undo: Undo the action of the previous event or user interaction
undo

Table Suite: *Table classes*

Class table: The document's data sheet

Elements:

cell by numeric index, by name, as a range of elements, satisfying a test

column by numeric index, by name, as a range of elements, satisfying a test

row by numeric index, by name, as a range of elements, satisfying a test

Properties:

name international text -- *The name of the table, i.e., the 'Data:' window's title*

best Type type class [r/o]

default type type class [r/o]

class type class [r/o] -- *The class*

Class row: A row in the table

Plural form:

rows

Elements:

cell by numeric index, by name, as a range of elements, satisfying a test

Properties:

name international text -- *The row's name (the 'Sample' column or, if empty, the row header)*

index integer [r/o] -- *The row's index, e.g., 23*

coordinate text [r/o] -- *The row's coordinate, e.g., "22"*

best Type type class [r/o]

default Type type class [r/o]

class type class [r/o] -- *The class*

Class column: A column in the table

Plural form:

columns

Elements:

cell by numeric index, by name, as a range of elements, satisfying a test

Properties:

name international text -- *The column title (the 'Name' row or, if empty, the column header)*

index integer [r/o] -- *The column's index, e.g., 56*

coordinate text [r/o] -- *The column's coordinate, e.g., "BD"*

best type type class [r/o]

default type type class [r/o]
class type class [r/o] -- *The class*

Class cell: A cell in the table

Plural form:

cells

Properties:

formula text -- *The cell's formula, or, if there is no formula, the cell's text resp. value*

value real -- *The cell's value*

absoluteValue real -- *The absolute of the cell's value*

rowIndex integer [r/o] -- *The cell's row index, e.g., 23*

columnIndex integer [r/o] -- *The cell's column index, e.g., 56*

tableIndex integer [r/o] -- *The cell's table index, e.g., 2278 (calculated from left to right and from top to bottom)*

tableCoordinate text [r/o] -- *The cell's table coordinate, e.g., "BD23"*

columnCoordinate text [r/o] -- *The cell's column coordinate, e.g., "BD"*

rowCoordinate text [r/o] -- *The cell's row coordinate, e.g., "22"*

best type type class [r/o]

default type type class [r/o]

protection boolean -- *Is cell protected?*

kind text [r/o] -- *The kind of cell: emptyCell, valueCell, textCell, errorCell*

class type class [r/o] -- *The class*

Supported AppleEvents in version 3.2

Event/ Object	Application	Document	Window	Table	Row	Column	Cell
Close		X					
Count Elements		X		X	X	X	X
Create Element		X					
Delete					X	X	X
Do Objects Exist	X	X		X	X	X	X
Get Data		X	X	X	X	X	X
Get Data Size	X	X		X	X	X	X
Open		X					
Print		X					
Quit Application	X						
Save		X					
Set Data		X		X	X	X	X
Select			X		X	X	X
Revert		X					
Cut							X
Copy							X
Paste							X
Redo/Undo							X

Referencing objects

Document

by name: document "Wine Recognition"

by index: document 1

Note: Since only one document can be open at a time in KnowledgeMiner this is the only valid index reference.

Examples: **close** document "Wine Recognition" **saving no exists** document 1

Window

by name: window "Graph: Shuttle Landing Control"

Example: **select** window "Model Equation: Shuttle Landing Control"

Table

by name: table "Data: XOR Problem"

by index: table 1

Note: Like a document, only one table is available at a time. So this is the only reference by index.

Examples: **count** table "Data: XOR Problem" **each** column **set** name **of** table 1 **to** "XOR Model"

Row

		Sample	A
	Name	My Cases or Time Intervals	
example (1)	1	name or id of case 1	
	2	name or id of case 2	
example (2)	3		
	4	alternatively	
example (3)	5	date, name, or id of week 5	
	6	date, name, or id of week 6	
	7		

Figure 1

by name:

row "name or id of case 1" **of** table 1 **of** document 1

Note: Any row refers to table 1 of document 1, because there is always only one table and one document available (see above). Therefore you can always use a short reference.

row "name or id of case 1"

by index:

row 3

by coordinate:

row "3"

Note: row 3 and row "3" are different rows (3rd resp. 4th row). See examples.

Examples:
(figure 1)

(1) **get** index **of** row "name or id of case 1"

Result: 2

get coordinate **of** row "name or id of case 1"

Result: "1"

get name **of** row 2

Result: "name or id of case 1"

but

(2) **get** name **of** row 4

Result: "3" -- there is no user defined name, so get coordinate

(3) **get** name **of** row 6

Result: "date, name, or id of week 5"

get name **of** row "6"

Result: "date, name, or id of week 6"

Column

example (1)

example (2)

	Sample A	X1	B	X2	C	X3	D
Name	DAY	name of Variable 1		name of Variable 2			
1	09/13/00						

Figure 2

by name:

column "name of Variable 1" **of** table 1 **of** document 1

Note: Any column refers to table 1 of document 1, because there is always only one table and one document available (see above). Therefore you can always use the short reference.

column "name of Variable 1"

column "X1"

by index:

column 2

by coordinate:

column "B"

Examples:
(figure 2)

- (1) **get** index **of** column "name of Variable 1"
Result: 2
- get** coordinate **of** column "name of Variable 1"
Result: "B"
- get** name **of** column 2
Result: "name of Variable 1"

but

- (2) **get** name **of** column 4
*Result: "X3" -- there is no user defined name, so
get predefined name: "X..." or "Y"*
- get** coordinate **of** column 4
Result: "D"

Cell

	Sample A	X1	B	X2	C	X3	D
Name	DAY	name of Variable 1		name of Variable 2			
1	09/13/00	0.5000000		-1.6500000			

Figure 3

by rowIndex:

cell 2 **of** column 3 **of** table 1 **of** document 1

Note: Any cell refers to table 1 of document 1, because there is always only one table and one document available (see above). Therefore you can always use the short reference.

cell 2 **of** column 3

by columnIndex:

cell 3 **of** row 2

by tableIndex:

cell 154

by rowCoordinate:

cell "1" **of** column 3

by columnCoordinate:

cell "C" **of** row 2, but also
cell "X2" **of** row 2

by tableCoordinate:

cell "C2"

Examples:
(figure 3)

get tableIndex **of** cell 2 **of** column 3
Result: 154

get value **of** cell "C" **of** row 2
Result: -1.65

get absoluteValue **of** cell "C2"
Result: 1.65

get kind **of** cell 2 **of** column "D"
Result: "emptyCell"

get formula **of** cell "Name" **of** column "B"
Result: "name of Variable 1"

Comparison operators defined in KnowledgeMiner

Comparison operator	Meaning
begins with	<i>The value of the first operand begins with the value of the second operand (for example, the string "operand" begins with the string "opera"). Not case sensitive.</i>
contains	<i>The value of the first operand contains the value of the second operand (for example, the string "operand" contains the string "era"). Not case sensitive.</i>
ends with	<i>The value of the first operand ends with the value of the second operand (for example, the string "operand" ends with the string "and"). Not case sensitive.</i>
equals	<i>The value of the first operand is equal to the value of the second operand.</i>
greater than	<i>The value of the first operand is greater than the value of the second operand.</i>
greater than or equal to	<i>The value of the first operand is greater than or equal to the value of the second operand.</i>
less than	<i>The value of the first operand is less than the value of the second operand.</i>
less than or equal to	<i>The value of the first operand is less than or equal to the value of the second operand.</i>

Examples:

- get** rowIndex **of every** cell **of** column "C" **whose** absoluteValue **is less than or equal to** 0.7
- get** coordinate **of first** column **whose** name **contains** "product"
- select last** cell **of** column "Gross Margin" **whose** value **is greater than the** value **of** cell "B3" **and** rowIndex **is less than** 55