

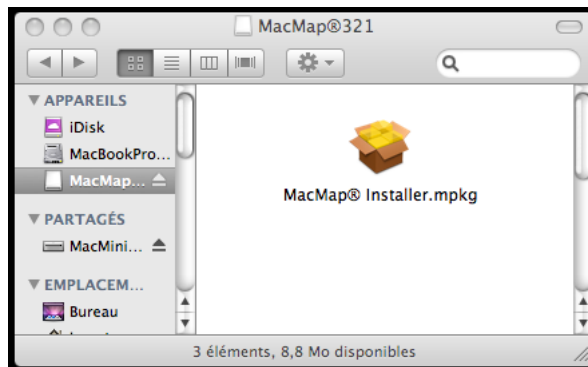
First steps with MacMap®v3

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Installation

After either downloading the programme or inserting your CD, you should have a disk image called "MacMapxxx", where the xxx is the version number (MacMap®321 for example, for MacMap® version 3.2, release 1). Double click on the image to go to the following window:



Then double-click on the "MacMap® Installer" icon to run the "Programme Installation" tool. Once installed run MacMap®. When starting MacMap® for the first time enter the Serial Number.



The Serial Number is provided on the last page of the Licence Agreement. Enter the number making sure to use the right case. The serial number can be copied and pasted into the text zone. If you have a full licence with a copy protection dongle, please insert the key before running MacMap®.

⚠ : Administrator authorisation is needed to install MacMap®. A Password is needed to proceed with installation. Run MacMap® for the first time from an Administrator Account. This gives the programme an identification number.



Introduction to MacMap® version 3

The software

MacMap®

MacMap® is a GIS/Cartographer software programme based on a core with added external "plug-in" functions. MacMap® also uses dynamic libraries called "Frameworks" in the Mac environment. These libraries can be used by external programmes to access MacMap®v3 table content.

Plug-ins and Frameworks

The plug-ins are grouped into different families, corresponding to specific functions. Plug-ins are managed using standard Macintosh functions (Command-i on Application, "External Modules").

- Tools: Used to manipulate objects and navigate in the cartographic window. Accessed in "Tool Box".
- XMaps: Generic functions with no particular application (ex: Selecting Objects, Spreadsheets, ...)
- Geogs: Geographic search modules, can be integrated into database requests (ex: selecting objects less than a certain distance from a particular object, finding points in a polygon, ...)
- Calcs: Calculations which provide a result/response for a given object (ex: length of a line, object identification, ...). Use "Formula Editor" to compile and define Calcs.
- Constants: Calculation functions which provide a constant result, for example the value of "Pi" or "e". Use "Constant Editor" to compile and define Constants.
- vDefs: Defines the cartographic representation (style) of an object: a surface may be displayed as a coloured polygon, or the line defining its contour, or by a point (ex: barycentre) or a collection of points, or by text (ex: the name of the polygon) ... Access vDefs in the "Presentation Box". Styles are part of the "Views" collection, defining the database's cartographic representation.

Main Frameworks are installed in the system's "Library/Frameworks" folder.

- MacMapSuite is a collection of utilities to manage database access.
- MacMapStats groups together all statistical functions.
- MacMapGeocoder groups together all geocoding functions.
- MacMapRoute groups together all itinerary calculation functions.

Other Frameworks may subsequently be installed in the same folder, as MacMap® grows and develops.



Utilities

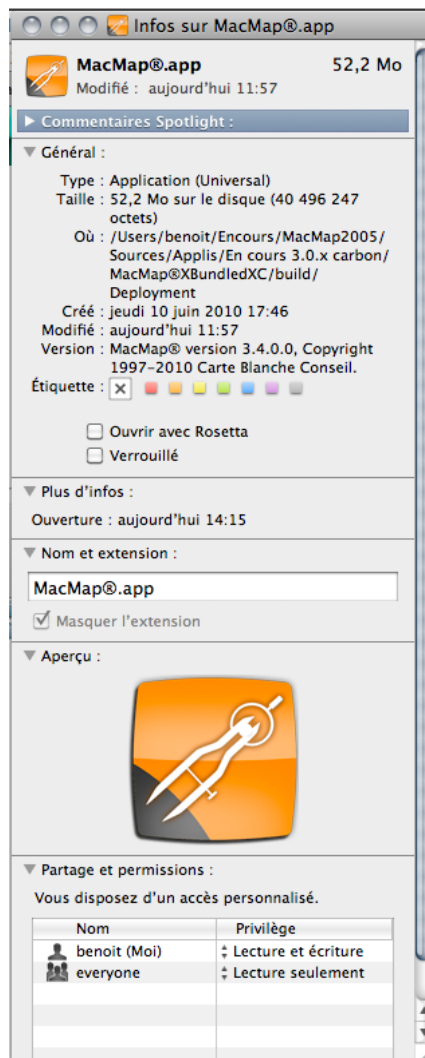
Specific tasks management applications: Geocodage, Itinerary Calculation, Transcoding, etc...
Using the Frameworks installed by MacMap® to read and/or write data in MacMap®v3 format.



Help and Language

The version 3 of MacMap® includes an HTML help tool compatible with the Apple „¢ utility "Visualising Help". Access interactive assistance at any time to help with searches and requests. Access via the MacMap® "Help" menu.

MacMap®v3 also includes a localisation function in 3 languages (French, English and Italian) for all interface elements, including the Help function. Presentations can be made in different languages, within the same software version, using the system's standard tools (Command-i application, under "Languages").



XML Parameters

All of the MacMap® functions use parameters written in XML format (Views, Styles, Hyphens, various preferences). This permits certain changes to be made to functions by simply using the text mode. You can then go further than permitted with the graphic interface. For example duplicating a Style from one Type to another, of a Calc from one Database to another.

The MacMap® Log

MacMap® leaves a trace of the different operations executed (Error Message, Various Messages). These traces are accessed using the "Console" utility in your Mac's "Applications/Utilities" Folder.

```
Messages Console
Masquer la liste d'historiques Placer dans la Corbeille Effacer l'écran Insérer un marqueur Recharger
REQUÊTES DE BASE D...
Tous les messages 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >Wed Apr 15 17:07:04 2009
Messages Console 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >process path : /
FICHIERS LOG 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >process name : MacMap®
system.log 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >user : benoit
~/Library/Logs 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >user : benoit
CrashReporter 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >
DiskRecording.log 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >-----
DiskUtility.log 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >{ ENTER bMacMapApp::appspecinit
fsck_hfs.log 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] > bMacMapApp::appspecinit : app spec inited
Google 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >} LEAVE bMacMapApp::appspecinit
Installer Log File 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >-----
Java Console.log 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >
Sync 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >-----
/Library/Logs 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >{ ENTER bMacMapApp::nibinit
/var/log 15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] > bMacMapApp::nibinit : nib inited
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >} LEAVE bMacMapApp::nibinit
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >-----
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >{ ENTER bMacMapApp::rsrccinit
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >} LEAVE bMacMapApp::rsrccinit
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >-----
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >gTracer : MacMap® app inited
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >-----
15/04/09 17:07:04 [0x0-0x000ad] .com.cbconseil.macmap [1549] >{ ENTER bMacMapApp::run
15/04/09 17:07:05 [0x0-0x000ad] .com.cbconseil.macmap [1549] >
15/04/09 17:07:05 [0x0-0x000ad] .com.cbconseil.macmap [1549] >-----
15/04/09 17:07:05 [0x0-0x000ad] .com.cbconseil.macmap [1549] > { ENTER bExtLibMar::load()
4000 messages de 15/04/09 14:55:17 à 15/04/09 17:07:13 Antérieur Ultimeur
```

Software protection

MacMap® is protected by a physical, numbered USB key (the "Dungle") corresponding to the Serial Number provided with the Licence Agreement.

If the Dungle is removed while the programme is running, the programme will immediately stop working.

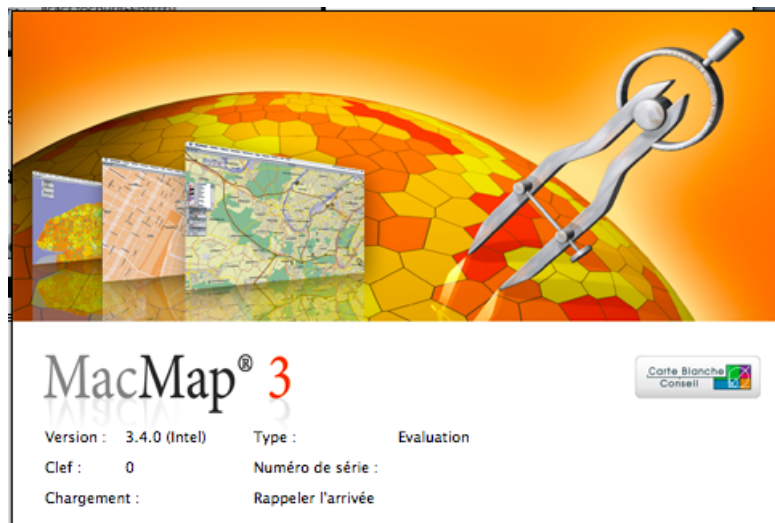
The software runs only in "Viewer" mode if it is started without the Dungle plugged in.



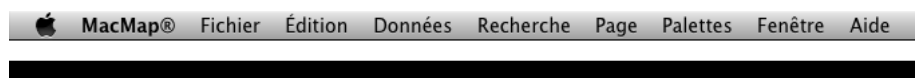
Présentation of MacMap®

Main windows and menus

Run the MacMap® programme. While the programme is booting-up, the Welcome Screen provides details concerning your version of MacMap® (Dongle Number, Serial Number, Version Type, etc..) The names of the Plug-Ins being opened are shown in turn at the bottom of the window.



When the programme is open the "Minisheet" window appears underneath the Menu bar. This window provides information on the Applications being used: it works like the "Status-Bar" on an Internet Navigator.



The Main Menus are:

- File: contains the main functions (New, Open, Close, Print, and the Import/Export functions)
- Data: access to all the Database Management functions.
- Search: access to the Search functions (alphanumeric and/or geographic requests).
- Page: includes all Main Window navigation functions.
- Pallet: opens pallets containing various Tools.

MacMap®v3 databases

MacMap® Databases are structured in different gender "Types": "textual", "point", "linear", "surface", and "raster". MacMap® databases include a ".mmproject" file and ".type" files. The ".mmproject" file contains the references to the ".type" files in the Database. For each Type there is a corresponding ".type" file.

Projects, types, and objects

Projects and Types are independent of one another. It is possible, therefore, to share a particular Type between several Databases. Type references are described by the relevant access path of the main Database file (ex: ".proj"). It is important, therefore, not to move elements of one relative to the others, nor to re-name access path content files.

"Types" are collections of Objects which have a common Database structure (ie: Fields). MacMap® creates 5 standards Fields for each "Type".

- Name: Characters Field.
- Sub-Type: Class Field, defining a basic typology.
- Colour: Class Field with 8 modes, used by default Styles.
- Direction: Class Field with 3 modes, to create directional graphs.
- Geometry: Fields containing Object's geographic coordinates.

User Fields can be added for each Type.

Each Object created in MacMap® belongs to a specific Type.

Objets status

Objects inputted in MacMap® can have different Statuses during a working session:

- Selected: a selected Object appears inside a black line rectangle. Various MacMap® functions work based on the Selection. A Selection can include objects with different Types.
- Contrasted : an extra Selection level Generally obtained by Selecting an Object then using the "Contrast Selection" Function in the "Search" Menu. This extra Selection level is less volatile, for example it cannot be modified by the Selection Tool. Contrasts are normally used to make cross operations between 2 lists of Objects (Selected and Contrasted). Contrasted Objects appear inside a thick grey lined rectangle.



- Masked: Objects can be Masked only by using the "Mask" and "Only Display This" Functions in the "Page" Menu. A Masked Object is temporarily removed from the MacMap® Index. It does not, therefore, appear on the Screen and the Functions no longer have access to these Objects (unless specifically mentioned). To find the normal Status of a Masked Object, use either the "Show All" Function in the "Page" Menu, or activate the Option "Include Masked Objects" in the Selection Function.

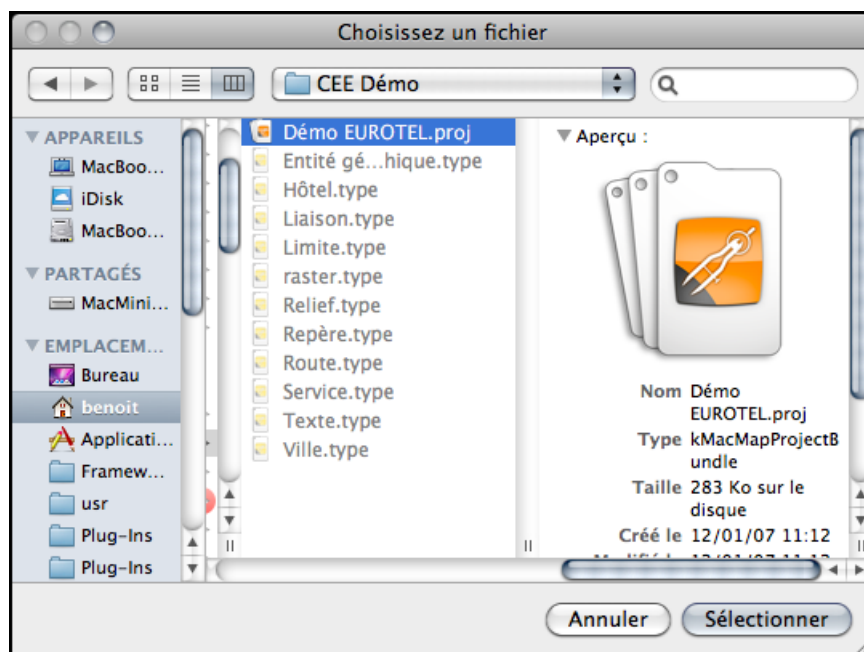


Simple task using the ECC demo database

Please download the EEC Demo from the web site <http://www.macmap.com>, and save to your hard disk.

Opening the database

Use the "File->Open" command to open the EEC Demo Database,



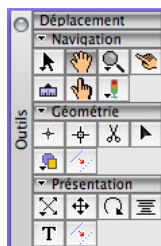
After validating the Open box, the following document should be displayed:



☞ : MacMap® only opens one document at a time.

Tool box

If the "Tool Box" is not visible, open it from the "Palettes" Menu. Tools are organised in three categories: navigation, changing object geometry, changing graphic forms. Before starting, get familiar with the Navigation Tools. Some Tools can be configured by double-clicking on their icon, with others, click-and-hold to access a pop-up Menu. The Zoom Tool (magnifying glass) has both Functions.



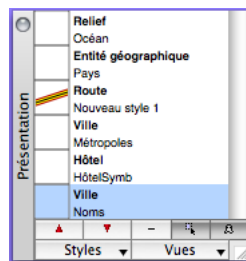
Presentation box

Open the "Presentation Box". This Box is used to display different Layers (called "Styles" in MacMap®) and organise the display as required. MacMap® can display the same Layer as many times as is necessary: for example displaying a Layer of polygons as coloured surfaces, or as a net to show the outline, or as an icon symbolising the centre of the surface, or as text providing the name of the surface. In the following example, note that the "Town" Type is represented two times: first with the Style "Métropoles" as an icon, then with the Style "Noms" in Text form taken from a Field in the Database.






In the main part of the Window, the Styles are displayed in rectangles with three pieces of information: A square on the right provides a preview of the; Mode Style and the current level; the relevant Type in bold characters: the Style Name.

These elements permit the following actions:

- To move a Style, use the box on the left to drag it up or down.
- Click-and-hold on the Name of the Type associated with the Style to choose the Style Mode (ex: one of the classes, such as the Sub-Type).
- Click-and-hold on the Name of the Type associated with the Style to centre the screen on the Zone covered by the Type.
- Click-and-hold on the Style's Name to access the list of Styles available for the associated Type, to change the Style or create a new Style.
- Double-click on the Name of the Style to open the Editor associated with the Style. The Style Name can then be changed.

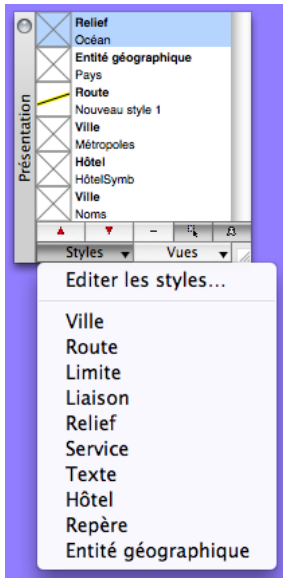


Under the principle Zone there are two rows of buttons. The first row is for manipulating the Styles.

- The  and  buttons are used to move the selected Styles up or down in the list.
- The  button is used to remove the selected Style from the list.
- The  button is used to make the selected Style non-selectionable or selectionable: this means that Objects represented by this Style cannot be manipulated by using the mouse.
- The  button is used to Mask or re-display the selected Style, so as not to display a Style temporarily.

The second line is used to access Style and View Management.

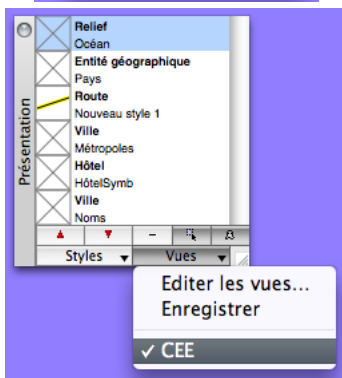




The "Styles" button is used to access the Styles.

The first command in the Menu opens the Style Management Tool: used to remove, duplicate, re-name or create Styles.

The list of Types used in the Database is displayed. Choose a command to add a Style to the Presentation Box.



The second button "Views" is used to access different Views of your document. A View is a collection of saved Styles.

The command "Edit Views" is used to access the View Management Tool : used to remove, duplicate, re-name or create new views.

The second command "Save" is used to save changes made to a View. When the Database is closed, or the Presentation Window is closed or when changing a View, MacMap® asks if you want to Save the changes made to the present View.

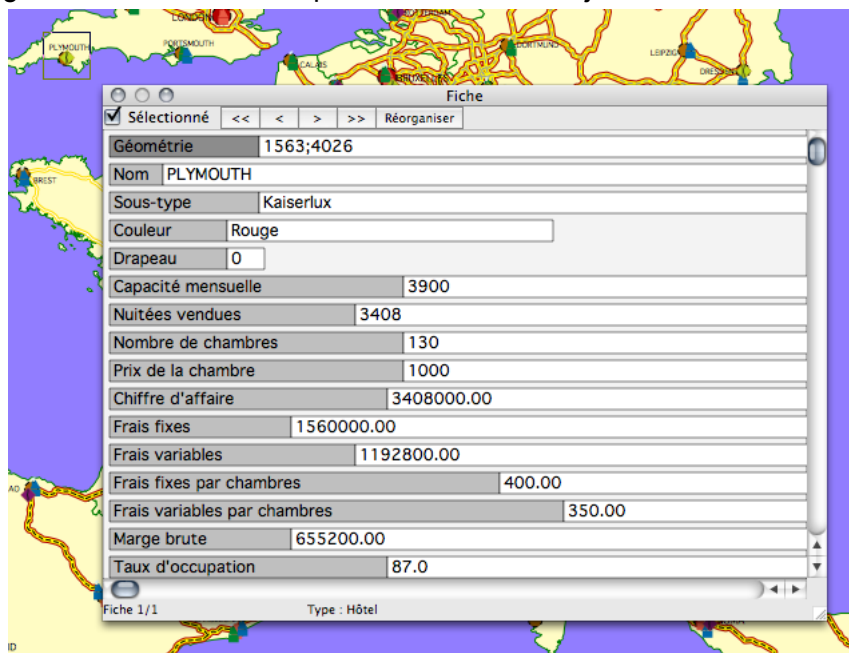
The list of Views of your document is then displayed. In this instance there is only 1 View « CEE ».



Visualising object data

Select the first Tool ("Selection") in the Tool Box : .

Double-click on one of the Objects represented on the map: a new window opens with the "Sheet" showing the different attributes/parameters of the Object.



The Sheet can also be accessed in the "Pallets" Menu. Close the Sheet. On the Map, select several Objects by dragging with the mouse, or by clicking on several Objects keeping the Shift Key down, then open the Sheet again (Command-Enter). You will notice that you can consult the data of different objects by displaying them by using the "<", "<<", ">", and ">>" buttons. Close the Sheet. Tick the box "Selected" to change the Status of an Object.

The Sheet Fields can also be moved by clicking on the Field Name keeping the "Alt" key down. To return to the original Sheet Status click on the button "Reorganise".

Changes made to the Sheet may also change the Map if the modified field is used in a Style. In this example, changing the selected Object Name ("PLYMOUTH") will update the Map as the Name is displayed.

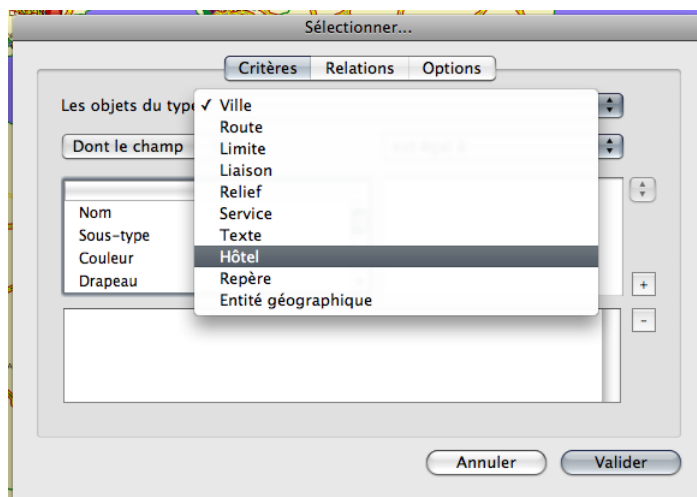
Close the Sheet.



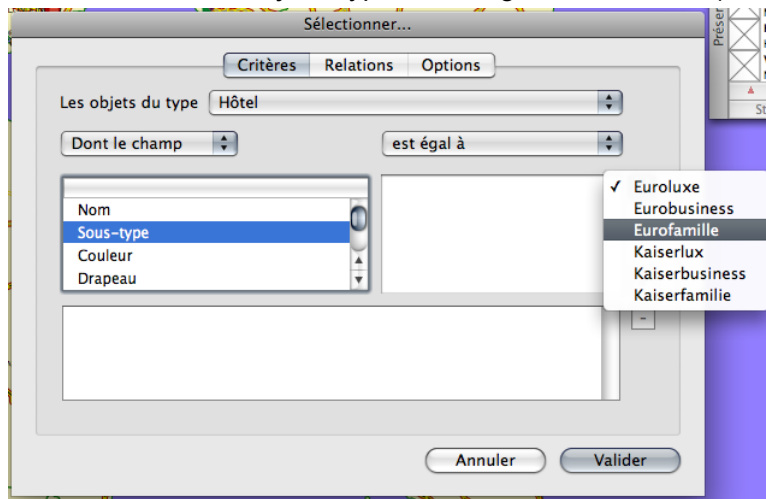
Requesting Information from the Database

For this example we will make a request which will allow us to select "Eurofamily" chain "Hotel" Type Objects.


Click "Select" in the "Search" Menu.



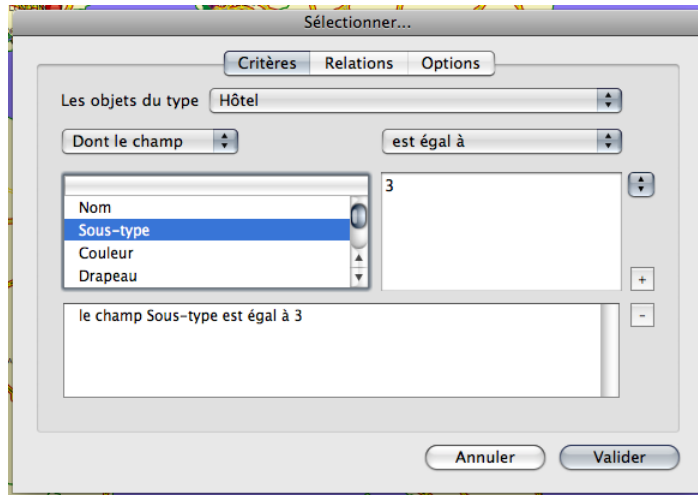
Choose "Hotel" from the "Object Type" heading in the Window (see above).



Select "Sub-type" in the "In Field" pop-up Menu list as "Hotel" families appear in this Field. Select "Eurofamily" from the pop-up Menu completely on the right of the Window. The Sub-Type number ("3") should appear in the Text Zone to the left of the pop-up Menu.

 : The pop-up on the right of the Window is only active for Fields with data-capture constraints. The Default Fields Sub-Type, Colour, Direction/Flag have data-capture constraints. User Fields can also be associated to data-capture constraints.





Click on the "+" button to add this condition to your request.

After confirming, you should obtain the following result: the Minisheet should indicate that 37 "Hotel" Type Objects correspond to your request. These 37 Objects were Selected and are now shown surrounded by a black rectangle.



☞ : Centre the screen on each Object Selected by using the Functions "Centre on next" and "Centre on previous" in the "Page" Menu.



See the results of your request in spreadsheet form by using the "Spreadsheet" command in the "Pallets" Menu (or Command-b) :

	Nom	Sous-type	Couleur	Ori	Capacité mensuelle	Nuits vendues	Nombre de chambres	Prix de la chambre	Chiffre d'affaire	Frais fixes	Frais variables
1	PORTO	Eurofamille	Bleu	0	1500	488	50	250	122000.00	180000.00	53680.00
2	LA CORUNA	Eurofamille	Bleu	0	1500	1111	50	250	277750.00	180000.00	122210.00
3	SEVILLA	Eurofamille	Bleu	0	1500	160	50	250	40000.00	180000.00	17600.00
4	VALLADOLID	Eurofamille	Bleu	0	1500	1120	50	250	280000.00	180000.00	123200.00
5	MALAGA	Eurofamille	Bleu	0	1500	148	50	250	37000.00	180000.00	16280.00
6	BREST	Eurofamille	Bleu	0	1500	274	50	250	68500.00	180000.00	30140.00
7	BILBAO	Eurofamille	Bleu	0	1500	1088	50	250	272000.00	180000.00	119680.00
8	GLASGOW	Eurofamille	Bleu	0	1500	600	50	250	150000.00	180000.00	66000.00
9	ZARAGOZA	Eurofamille	Bleu	0	1500	1192	50	250	298000.00	180000.00	131120.00
10	VALENCIA	Eurofamille	Bleu	0	1500	1140	50	250	285000.00	180000.00	125400.00
11	INVERNESS	Eurofamille	Bleu	0	1500	174	50	250	43500.00	180000.00	19140.00
12	EDINBURGH	Eurofamille	Bleu	0	1500	871	50	250	217750.00	180000.00	95810.00
13	LIVERPOOL	Eurofamille	Bleu	0	1500	1066	50	250	266500.00	180000.00	117260.00
14	PORTSMOUTH	Eurofamille	Bleu	0	1500	998	50	250	249500.00	180000.00	109780.00
15	LE HAVRE	Eurofamille	Bleu	0	1500	743	50	250	185750.00	180000.00	81730.00
16	TOURS	Eurofamille	Bleu	0	1500	1477	50	250	369250.00	180000.00	162470.00
17	TOULOUSE	Eurofamille	Bleu	0	1500	1392	50	250	348000.00	180000.00	153120.00
18	ROUEN	Eurofamille	Bleu	0	1500	863	50	250	215750.00	180000.00	94930.00
19	BARCELONA	Eurofamille	Bleu	0	1500	1258	50	250	314500.00	180000.00	138380.00
20	PARIS	Eurofamille	Bleu	0	1500	844	50	250	211000.00	180000.00	92840.00
21	LILLE	Eurofamille	Bleu	0	1500	1090	50	250	272500.00	180000.00	119900.00
22	AMSTERDAM	Eurofamille	Bleu	0	1500	1292	50	250	323000.00	180000.00	142120.00
23	LYON	Eurofamille	Bleu	0	1500	1106	50	250	276500.00	180000.00	121660.00
24	MARSEILLE	Eurofamille	Bleu	0	1500	981	50	250	245250.00	180000.00	107910.00
25	LLIEMBOURG	Eurofamille	Bleu	0	1500	1248	50	250	312000.00	180000.00	137280.00
26	STRASBOURG	Eurofamille	Bleu	0	1500	1320	50	250	330000.00	180000.00	145200.00
27	0	1500	...	50	250	...	180000.00	...

As with the Sheet, the Spreadsheet works interactively with the Map.

- Click on a Line Heading to change the Selection.
- Double-click on a Line Heading to open the Objects Sheet.
- Click on a value, you can then change it (in text mode, pop-up)

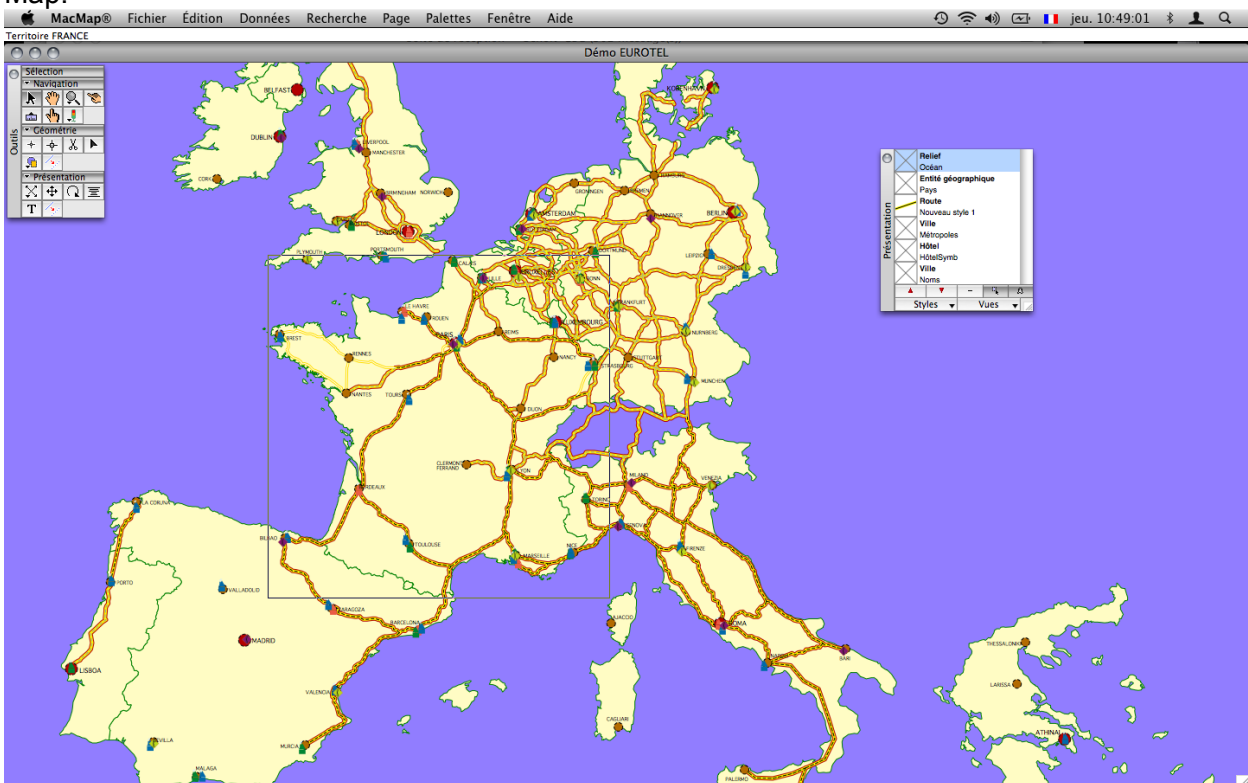
Similarly any changes made to the Map are automatically translated into the Spreadsheet.



Requesting Geographic Information

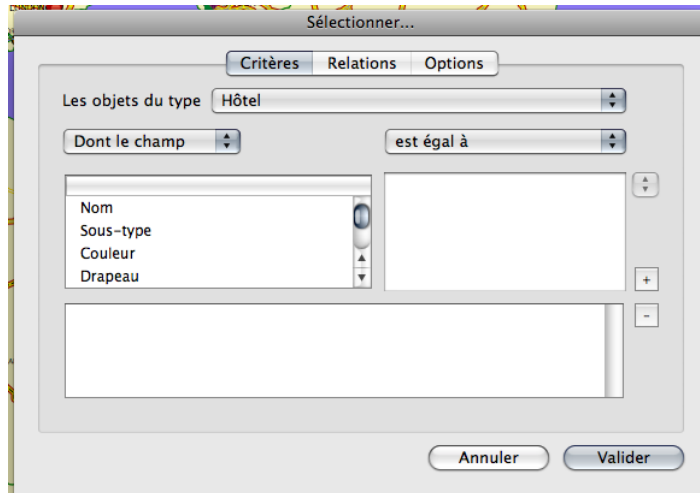
For this second example we will make a request which will allow us to select all "Hotel" Type Objects in France.

Use the Selection Tool, Select the Object "France" by clicking on it in the Map.

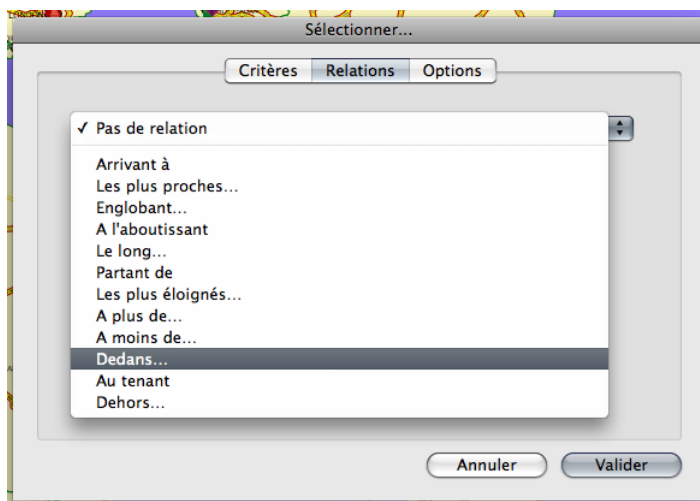


In the "Search" Menu and click on "Select", then indicate the "Hotel" type.





Click on the tab "Relations".



Access the available "Geogs" in the pop-up Menu at the top of the screen. Choose "Inside":



MacMap®v3 Tutorial

After confirming you should obtain the following result: 35 "Hotel" Type Objects are Selected.



☞ : You can also make an alphanumeric Database Information request at the same time as a geographic request. (ex: hotels in the Eurofamily chain in France).

Closing a Database

To close a MacMap® Database, use the command "Close" in the "File" Menu or "Quit" if you have finished a work session.

☞ : Changes are automatically saved in MacMap®. Because of this there are no "Save" or "Save As" commands.

