



# QuicKeys® installation instructions for FmPro Migrator on MacOSX

## Step 1 - Install QuicKeys software

Install QuicKeys X3 downloaded from the [www.startly.com](http://www.startly.com) website.

You may click on the 30-day trial license key button, if you are not ready to purchase QuicKeys at this time. The 30-day trial version works fine with FmPro Migrator. If you plan to continue using the Table Consolidation feature within FmPro Migrator beyond this timeframe, you will need to purchase a license for QuicKeys.

## Step 2 - Install QuicKeys shortcuts

**Import the file: FmPro Migrator QuicKeys Shortcuts - Mac.qkexport**

This file is written to the user selected output directory by FmPro Migrator when the Download QuicKeys button is clicked. This shortcuts file contains the QuicKeys shortcuts which are invoked by FmPro Migrator via AppleScript commands. These shortcuts perform a variety of tasks including creating and setting the color of each Table Occurrence and creating each Relationship on the Relationship Graph.

Within QuicKeys, select File -> Import Shortcuts

## Step 3 - Create QuicKeys variables

**QuicKeys utilizes several temporary variables to store parameters for each object which is being created. These variables need to be created once, on each computer where QuicKeys and its shortcuts are installed.**

Name	Value	Type
var1	0	Number
var10	0	Number
var2	0	Number
var3	0	Number
var4	0	Number
var5	0	Number
var6	0	Number
var7	0	Number
var8	0	Number
var9	0	Number
Clipboard		Dictionary

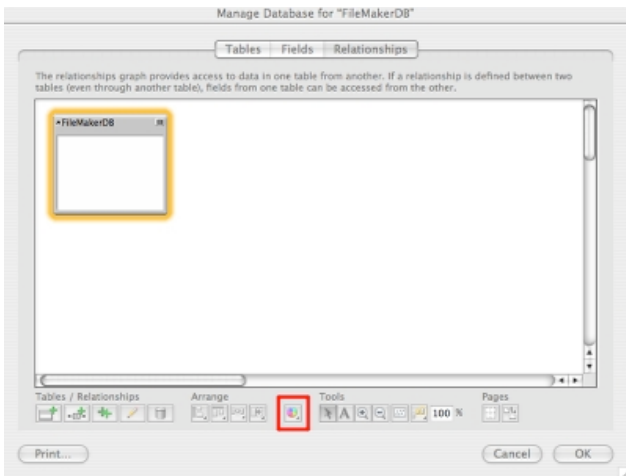
Select Window -> Variables to open the QuicKeys variables window. Click the + symbol to create each new variable. Create variables named: var1 - var10 (10 variables in total). Figure #1 shows the QuicKeys Variables window after the variables have been added.

Figure #1  
QuicKeys Variables

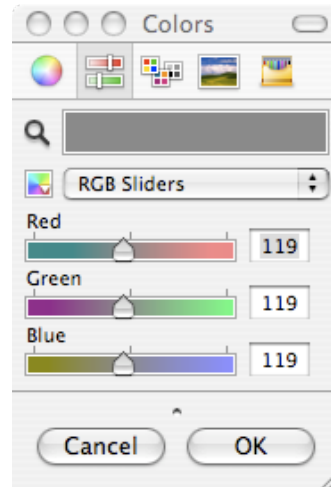
## Step 4 - Prepare FileMaker...

**QuicKeys is dependent upon some FileMaker configuration settings when it attempts to click and set buttons and fields in an automated manner.**

- Re-size the Colors window to its smallest size. Open any of the Colors palettes within FileMaker, then resize the Colors window to its smallest size. Setting the Colors window to the smallest Horizontal and Vertical size, insures that the QuicKeys shortcuts can find the location of the Red, Green, and Blue color fields when setting the color for each Table Occurrence on the Relationship Graph. If the Colors window is too wide, the numeric fields will be located too far to the right of where the QuicKeys shortcut will be clicking when attempting to set the value of each field.



**Figure #2**  
Colors Palette Button – FileMaker Relationships Window

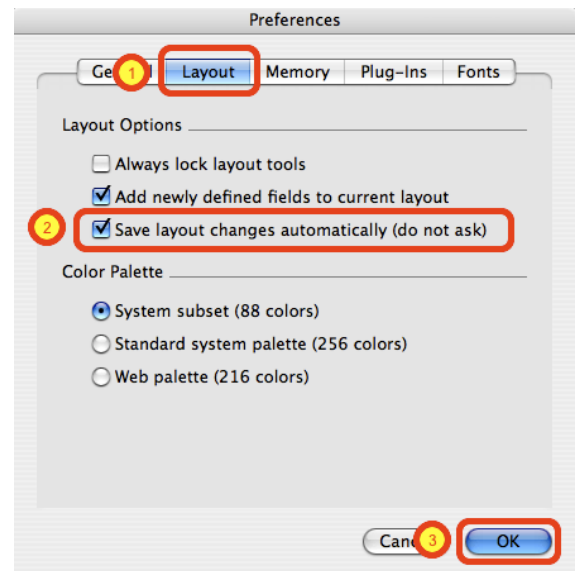


**Figure #3**  
Colors Palette – Opened to RGB Sliders

- The QuicKeys shortcuts are dependent upon the English version of FileMaker running on a Mac OSX configured for use in English. Please see the section of this document titled Localization for information about localizing the QuicKeys scripts for different languages.

- Re-size the FileMaker Relationships window to its smallest size. The size of this window determines the location of the Color Palette button shown in Figure #2. This button does not work like regular buttons which can be located by the name of the button, therefore it is located strictly by its Horizontal and Vertical coordinates within the Relationships window.

- As shown in Figure #4, select the FileMaker Preferences menu item, (1) click the Layouts tab, (2) click the checkbox to enable the "Save layout changes automatically (do not ask)" option, then (3) click the OK button.



**Figure #4**  
Save Layout Changes Automatically

- Re-size the Specify Table window to its smallest size. The QuicKeys shortcuts depend upon the TO name field being located at a specific vertical coordinate from the top of the Specify Table window, so that this field can be selected by clicking within the field prior to typing the name of the Table Occurrence.

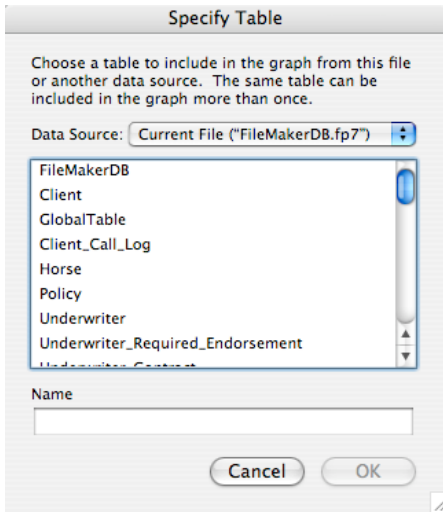


Figure #4  
Specify Table Window – Set to  
Smallest Vertical Size

- Make sure that the Define/Manage database window is far enough above the dock so that the Colors drop down palette can be displayed below the Colors icon shown in Figure #2. If the Define/Manage database window is too close to the Dock, then the colors selector will appear above the Color Palette button, as shown in Figure #5. This is the wrong location for the colors selector drop down menu, as the QuicKeys shortcuts expect the Other Color.. text to be located at a specific pixel location. The correct location for the colors selector drop down menu is shown in Figure #6.

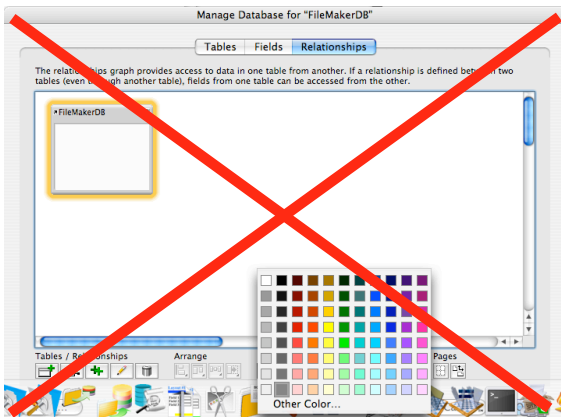


Figure #5  
Color Selection Palette – Positioned  
Too High  
(Window too close to Dock)

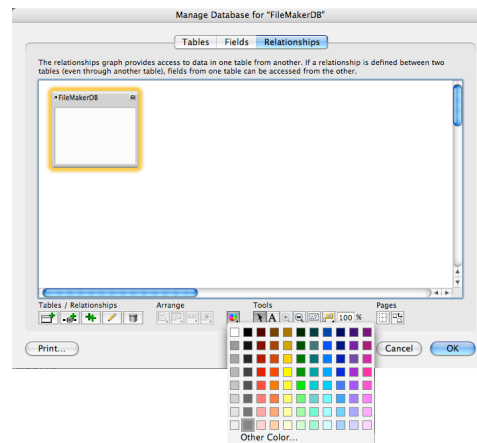


Figure #6  
Color Selection Palette – Positioned  
Correctly

## General Troubleshooting

**The QuicKeys shortcuts driving the FileMaker graphical interface, require some consistency in the graphical configuration of the FileMaker windows, and the current state of the application.**

- Make sure that there are no dialog boxes open in FileMaker (i.e. Open Database, Import Records, Export Records etc.) prior to clicking the batch processing buttons within FmPro Migrator.
- Avoid having the Define/Manage Database window open within FileMaker. FmPro Migrator uses QuicKeys to automatically open/close/save changes to the Relationships window, therefore FmPro Migrator expects this window to be closed when it starts a batch processing operation. The exception to this guideline is that the Relationship Graph window needs to be opened prior to clicking on the Current TO/Current Relationship button.
- The Base Tables must already exist within the FileMaker database prior to creating Table Occurrences or Relationships. Pasting the Base Table definitions from the Tables screen within FmPro Migrator is the best way to create these tables within FileMaker Advanced. Following the execution order of the buttons on the Table Consolidation window will insure that the proper objects are in place at the proper point in time during the migration process.
- Clicking the Create All TOs or Create All Relationships buttons while holding down the Shift key will make the batch processing buttons visible. Individual TOs/Relationships can be created by clicking on the TO/Relationship in the list and then clicking the Current TO/Current Relationship button. The Relationship Graph window must be open prior to clicking the Current button.
- The sample database FileMakerDB.fp7 is written to the output directory by FmPro Migrator. This database file is recommended for use as the destination database when performing Table Consolidation projects. This file contains a TO named “= Placeholder TO” which is used by the QuicKeys shortcuts when building relationships. The shortcuts press the “=” key prior to selecting each TO from the list, in order to insure that the proper TO gets selected by typing its name. There should not be more than one TO with a name starting with “=” within the TO list or the wrong TO may get selected.
- Before creating TOs in batch processing mode, it may be necessary to open the Relationship Graph and click on the Create Table Occurrence button. Then click the Cancel button to the Specify Table dialog and click the Cancel button for the Relationship Graph window. Sometimes, it is necessary to perform these steps once, prior to starting a batch session with FileMaker 8/8.5 in order to get FileMaker to recognize the ⌘ + Shift + T key combination sent from QuicKeys to create the Table Occurrence.

## Localization

**Because QuicKeys shortcuts are being used to drive the FileMaker graphical interface, these shortcuts can be customized for the language being used.**

Each shortcut supplied with FmPro Migrator uses keystrokes and menu selections for the English version of FileMaker Pro Advanced (versions 8, 8.5 and 9). If desired, the user may customize the supplied shortcuts for their own native language.

Note: This localization feature only extends to the contents of the QuicKeys shortcuts. The FmPro Migrator interface and the names of the QuicKeys shortcuts called by FmPro Migrator must remain in English.

In order to localize the QuicKeys scripts, open each script and look for send keystroke, menu selection, window and button tasks performed by the script. QuicKeys uses the name of the application window to locate, wait for the existence of buttons/windows and click on buttons within the FileMaker graphical interface. There are also keystrokes sent to open the Table Occurrence and Relationship creation windows.

## Localization Troubleshooting

**While modifying the QuicKeys scripts, it can be helpful to run the scripts individually, without using FmPro Migrator to drive QuicKeys in batch mode.**

Each shortcut receives information from FmPro Migrator via lists of return separated values placed on the Clipboard. In order to simulate the operation of the shortcut via FmPro Migrator, use the following tables of values to put data onto the clipboard when testing each type of shortcut.

Table Occurrence Shortcuts (Clipboard Contents)	
Table Occurrence Name	Name of the Table Occurrence which will be created.
Base Table Name	Name of TO base table.
Red Color	Decimal value for red color of TO.
Green Color	Decimal value for green color of TO.
Blue Color	Decimal value for blue color of TO.

Relationships Shortcuts (Clipboard Contents)	
Relationship Processing Type	Add - Add Predicate to Existing Relationship New - Create New Relationship with Predicate
Left Table Name	Name of the TO on the left side of the relationship.
Left Table Cascade Create	Cascade Create Status (1/0)
Left Table Cascade Delete	Cascade Create Delete (1/0)
Right Table Name	Name of the TO on the right side of the relationship.
Right Table Cascade Create	Cascade Create Status (1/0)
Right Table Cascade Delete	Cascade Delete Status (1/0)
Left Field Name	Name of field on the left side of the relationship predicate.
Join Type	Type of join (=, <, >, <>, <=, >=, x)
Right Field Name	Name of field on the right side of the relationship predicate.