

# Mac-ProLi

# Win-ProLi

# Lin-ProLi

**mc richter**

software-entwicklung,  
coaching und service  
rund um's büro

Mac OS X, Windows und Linux

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# INTRODUCTION

This program was developed especially for software developers. With it, you are able to document all steps of the developing process. Especially with multiple programs and many versions, it gives you a better overview.

Here, you enter all new features and reported bugs. While developing, you can read this information and implement it. Because of the integrated version control, you see always in which state the function or error is. And you see in which version the function was implemented, or the error was corrected.

There are similar systems for this task. But this application was optimized for very small teams. Without it, you have not the overview of all functions and error corrections in all your applications.

And for the mobile administration, "iProLi" is available. It can be used as an independent application. But in most cases, it makes more sense to synchronize the data between both platforms. So, you don't lose an idea, if you are not at home.

I think, many other developers have the same problems and don't want to install a complete version tracking system. So, I released this application as Freeware. I use this program for my own projects every day. So, I will add new features as fast as possible. But I like to add ideas from other users, too. Please let me know your ideas.

**Manfred Richter**

**Author**

# NOTES

## General notes

With usage of "Mac-ProLi", "Win-ProLi" or "Lin-ProLi", you accept the following conditions:

- The usage of "Mac-ProLi", "Win-ProLi" or "Lin-ProLi" is free of charge. All rights are with MC Richter GbR.
- You are allowed to give the program to another person. But you have to give this person the original files, we provide on our web-server.
- Changes at the files (program, help texts, user guide...) are not allowed. The data must be changed by the original programs, only.
- The user guide is exclusive for the usage of this program. Any other usage is forbidden.
- Leasing, Renting or something else like this is forbidden.
- Earlier license agreements are invalid with the release of this version.
- The MC Richter GbR is not responsible for damages, which results direct or indirect from the usage of this software. This applies also to the statements made in the user guide.

## About this user guide

This program is available for macOS, Windows and Linux. For Macintosh computer the program name is "xProLi" ("Mac-ProLi"). For Windows users, the programs "Win-ProLi" and "Win-ProLi" are available. Linux users start the program "Lin-ProLi". All programs work in the same way. If there are differences, you find a description on the corresponding page in this user guide.

All images in this user guide were made with macOS. On the other operating systems, they differ only insignificantly. All major changes since the last version of this user guide are marked. Important information is highlighted in gray .

This user guide is located within the program folder. But you can open it from the help-menu of the program, too.

# INSTALLATION

## Requirements

The following operating systems are supported:

- **Macintosh**
  - Intel based Macintosh
  - 64 Bit hardware
  - macOS 10.10
  - 2 GB main memory
  - 1 GB free space on hard disk
- **Windows**
  - Windows 7 SP1
  - 2 GB main memory
  - 1 GB free space on hard disk
- **Linux**
  - 64 Bit Linux
  - Officially supported distributions
    - Linux Mint 18 or later
    - Ubuntu 16.10 or later
    - Debian 6.0 or later
    - OpenSUSE 11.3 or later
    - Fedora 13 Desktop or later
    - CentOS 7.0 or later
  - 2 GB main memory
  - 1 GB free space on hard disk

The processor speed and the disk space are only approximate values. The necessary disk space depends upon the number of projects / versions. More entries need more space on the disk.

The listed operating systems are minimum requirements. Normally, this program works on all current operating systems. Unfortunately, it is not possible to test all configurations. This applies especially to the different Linux distributions. If you have any problems, please contact me. I will solve the problem as soon as possible. Since I manage also my own projects with this program, I will adapt it to new versions of the operating system as soon as possible.

## First installation

You can download the program directly from our website. As an alternative, you are able to load it from the store of Apple or Microsoft.

# From the Store

## App Store by Apple

You can download "xProLi" from the Store from Apple. The advantage is that there is no further installation necessary.

With the App Store, there are a few limitations. As a result, "xProLi" does not provide all the features of "Mac-ProLi". This primarily relates to the treatment of the database to store the entries. For most users, this is irrelevant.

## Store by Microsoft

In the Windows Store, "WinProLi" is available. The advantage is, that there is no further installation necessary. With the Store, there are a few limitations.

## Download from our homepage

If you loaded this program from our [website](#), a few steps are necessary. "Mac-ProLi" and "Lin-ProLi" are provided as an archive that you have to unpack. It contains all necessary files. You can move this directory to any folder on the hard disk. It is useful to create now an alias (Linux: Link) of the program on your desktop or any other place you want.

For "Win-ProLi" an installer is available, which creates the necessary files on the hard disk. In addition, the entries in the Start menu, desktop and the quick launch bar will be created.

The package contains the English and the German version.

During startup of the program, the correct language resources are loaded (German or English).

Depending upon your operating system, you must start one of the following programs:

- Macintosh: Mac-ProLi X.app
- Windows: Win-ProLi.exe
- Linux: Lin-ProLi.app

During the first start, you will be asked for a valid database. You have to create a new database in any folder (Windows / Linux: directory).

## xProLi and Mac-ProLi

If you downloaded "xProLi" from the App Store from Apple, you have no direct access to the database file. Therefore, you are not able to use it on several computers.

Do you want to use these functions, you have to switch to "Mac-ProLi". First, you must export the database. Then you install "Mac-ProLi". After the first start, select the exported database file.

If you worked with "Mac-ProLi" and wants to work now with "xProLi", you must import the database. With this function, the current database file is copied to the so-called sandbox of macOS. The old database will not be used any more. You can delete it now.

## Several computers

By default, this program is used as a workstation version. To use it in a network, two different features are implemented. With a database server, multiple users can simultaneously access the data. By using semaphores, only one alternate usage is possible. But there is no need to administer a database server.

"xProLi" works with an internal database. This is stored within the so-called sandbox. Therefore, the functions described in this chapter are not available.

## Database-Server

You can use a database-server, instead of a local file. With the help of this server, several installations of this program can use the database.

Today we support "cubeSQL" and "PostgreSQL". The cubeSQL server has the advantage that the same file can be used for the local installation. On the other hand, PostgreSQL can be used free of charge.

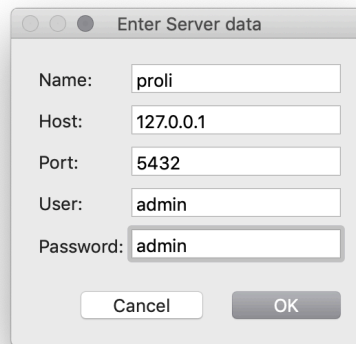
At the moment, cubeSQL can be used with up to 2 connections free of charge (05.2018). You find more information on the homepage of cubeSQL.

If the server is not yet installed, it must be installed and configured. Please use the instructions included with the server. We need an own database on the server for "Mac-ProLi" ("Win-ProLi", "Lin-ProLi"). Please create one. This program will create the necessary tables and indexes. Furthermore, an independent user must be created for each installation of this program. Otherwise, data may be lost.

If already a local database exists, select the menu "Database" from "File". Here, you select the server type and "New...". If there is no local database, select the server type from the dialog.

In both cases, you get the following dialog:





- **Name**  
Name of the database.
- **Host**  
TCP/IP address of the database-server.
- **Port**  
At the SQL server entered port (cubeSQL: 4430 / PostgreSQL: 5432).
- **User**  
At the SQL server for the database entered username.
- **Password**  
For above user at the SQL server entered password.

After entering the data and pressing "OK", the connection to the server will be established. If you selected "New", all tables will be created, now. After that, you can enter and modify data with this program, as usual.

Only experienced users should use this concept. We can't support the server.

The integrated functions for backup can't be used. The backup must be done by the server.

For each instance of this program, an own user must exist on the server. If two instances use the same user, you may loose data.

Two persons must not edit the same entry at the same time.

With a change from PostgreSQL to a local database, the data can be copied to the local database. When using cubeSQL, the file from the server can be used local – without conversation.

## Semaphore

If you use "WinProLi", this function is not available.

With this procedure, the database file must be synchronized between all included computers. The synchronization can be done by an external program – or direct with this program. The advantage of this concept is that you don't need a special database-server.

To avoid the usage by two persons at the same time, so called semaphore are implemented. For the usage, a file server, which can be accessed by all involved computers, is necessary. This file server can be used to synchronize the database file, too. Alternatively, you can use external programs (Synchronize, rsync...) to synchronize the database file.

For the configuration, one of the following text files

- Mac-ProLi (Sema).txt Macintosh
- Win-ProLi (Sema).txt Windows
- Lin-ProLi (Sema).txt Linux

must exist on every computer, which are included in this concept. This file must be in the same folder as the program.

To protect against malware, macOS does not place a downloaded application directly into the folder that is displayed. This prevents Mac-ProLi from accessing the configuration file. To solve this problem, copy the application into another folder.

The file must include the following lines:

- Complete path of semaphore file
- Complete path of database file on the server
- Terminal command to mount the server
- Terminal command to eject the server

The first line contains the name and complete path of the semaphore-file on the server. If the second line is not empty, this program synchronizes the database file with the given file on the server.

The following two lines can be used to execute a terminal command. This can be either a single command or a script. The command in the third line is executed before reading the semaphore file. Typically, it is used to mount the server. The command in the fourth line is executed after the test. This is useful when the server is to be ejected, again.

Under macOS, a program with a graphical user interface can be started with the command "open -a <program>". This can be, for example, a program, created with the script editor.

The file "Mac-ProLi (Sema).txt" (Macintosh) may have the following content:

```
Richters Server:MacProLiSema
Richters Server:Projects.rsd
open -a "/Skripte/Mount.app"
open -a "/Skripte/Eject.app"
```

By every start and end of the program, the semaphore-file is examined and written with actual values. By this, it can be guaranteed that always the latest version of the database will be used. If the second line (path of database file on the server) is used, this program compares the local and server database file by every program start. If the server version is newer, it will be copied to the local database. When quitting this program, the database file is copied to the server, again. The result is that there is always the latest version on the server. The two apps on the third and fourth lines are used to mount the server before the test and eject it afterwards.

Only experienced users should use this concept.

If the file server is not available, you can work with this program, too. In this case, you must check that no other person works with this program and that the database is up to date.

## iProLi

For the mobile administration of your projects is "iProLi" available. This application was developed for the iPad and iPhone. You get it directly from the App-Store of Apple. The usage is mostly like the desktop application, but optimized for the usage with the iPad and iPhone.

"iProLi" can be used as an independent program. In most cases it might be more interesting to synchronize the data with the desktop version.

## Synchronization

The changes must be exchanged between "iProLi" and the desktop program in regular intervals. This program offers two different methods.

Both variants can also be used alternately. For larger changes, the transfer via file is usually faster. But you need a second step, if there are changes on the target device. With direct synchronization, both directions are synchronized in one step.

## Usage of a file

With this method, a file is transferred to the mobile device and imported. The advantage is, that only one device at a time must be active and the data can be transmitted in different ways. As a result, this method is usually faster than the method via WLAN. The disadvantage is that data is transmitted in one direction only. But it is possible to transmit data in the opposite direction - in a second step.

### From the desktop to "iProLi"


Here, you must create an export file in "xProLi", "Mac-ProLi", "Win-ProLi" or "Lin-ProLi", first. All necessary functions for the synchronization are summarized under the item "Synchronize with iOS" under "File". With "Export (Full)..." the entire content of the current database is exported to a special file. This has the name of the database file and also includes the time of the export.

The next step is to transfer the file to the mobile device. This can be done under macOS for example with AirDrop or iCloud. But also, an e-mail or special programs (e.g., Documents from Readle) can be used for the transmission.

The last step is the import into "iProLi". To do this, select the file in the app, you used on the mobile device and send it to "iProLi". The iPhone or iPad will now switch to "iProLi" and the data will be imported. After the successful import, you see all data in "iProLi".

If you make changes in the desktop program and want to transfer them to the mobile device, you can use the item "Export (Changed)...". Here, only the data that has been changed since the last export will be exported.

## **From "iProLi" to desktop**

Of course, you can also make changes on the mobile device and transfer them to the desktop. To do this, press  in "iProLi" and select "Synchronization (Changed)". Now, a file is created similar to the desktop. You must now transfer it to the desktop computer. Under macOS, this can be done directly using AirDrop, for example. But you can use also another app. Or you send an email with the file.

In "xProLi", "Mac-ProLi", "Win-ProLi" or "Lin-ProLi", select "Import..." under "Synchronize with iOS". Then select the transferred file. Possibly it must be stored on the hard disk, first. The changes from the mobile application are now incorporated.

If you would like to transfer all data from the mobile application and delete the data on the desktop, select "Synchronization (Complete)". When importing to the desktop, all data will be deleted and only the data from the transfer are available.

## **From "iProLi" to "iProLi"**


If you have "iProLi" installed on multiple devices, you can also synchronize the data between them. Do not choose the desktop program as the destination, but the second mobile installation.

# **Direct Synchronization**

## **Installation**

Above method is good for much data. But data can only be transferred from one installation to another. In most cases, inputs are made on both devices and these are to be transmitted to the other device. For this, the direct synchronization is a better solution.

For this method, the desktop program starts a web server. With the help of this server, "iProLi" connects to the desktop. To enable the server, activate the option "Synchronize with iOS direct" in the settings. The shown IP must be entered in "iProLi", later. The port can be changed to avoid conflicts with other programs. After closing the dialog, the server starts. It starts in the future when the program starts, automatically – and ends when you close the program.

Then, you must make the settings in "iProLi". This is done by the Button . The settings for "Creator" and "Category" are already available in the desktop program. They are transferred to the mobile device with the first synchronization.

Now, you enable the option "Direct connect" and confirm the following dialog with "Overwrite". In the field "Server 1", enter above IP address. Do the same with the port, if you use the desktop program on two computers, you can enter a second address and port. Both installations on the desktop must use the same database.

Before first synchronization, it is a good idea to make a backup of the existing data.

Then start the synchronization with  $\updownarrow$ . All data will be transferred to the mobile device. With later synchronizations, only the changed data is transmitted.

Depending on the number of data, it may take some minutes to synchronize all data.

While synchronization, all dialogs (Preferences, enter, change...) must be close.

## Problem solving

There may be different reasons, why there is no connection between the mobile device and the desktop computer. Please check the following points, first:

- The mobile device must be connected to the local network.
- Both devices must be in the same network.
- The preference dialog is closed.
- Maybe a firewall stops incoming traffic.

For testing, you can access the server in the desktop program from any browser. To do this, enter "http:<address>:<Port>" (e.g., http://192.168.178.44:8080) in the browser. You find the values for "address" and "port" in the preferences. Please close the preferences before entering.

If you enter above address, you should see the following message:

If you see this page, you tried to access this...

You can enter the address from the desktop and from the mobile device.

## Standalone App

If you use "iProLi" as a standalone app, you must configure additional fields. With "Creator", you define which people reported the function or error. You can also define groups of people (development, test, customer...). With the category, you define a structure for all your projects. This works in the same way as in the desktop program.

If "iProLi" is used as a standalone app, you can sync the data with a second instance. This is done using the iCloud by activating the option "Use iCloud". The data is synced with iCloud by every activating or deactivating of the app.

# Usage


After the setup of synchronization, you can enter, change and delete data on both instances. These changes are transferred to the other system. The usage is very simple, but there are some points to consider:

- **Style**

In "iProLi" the texts can't be formatted. If you change a text, which was formatted within the desktop program, these styles will be lost.

- **Entries on two systems**

You should synchronize the data between the instances regularly. With this, you prevent a change of one entry from two instances.

You can also export the data, displayed in the list to another program. This is done with the button . Here, you select "Text file " or "CSV file". With the last one, you can transfer the data into a spreadsheet (e.g., Numbers).

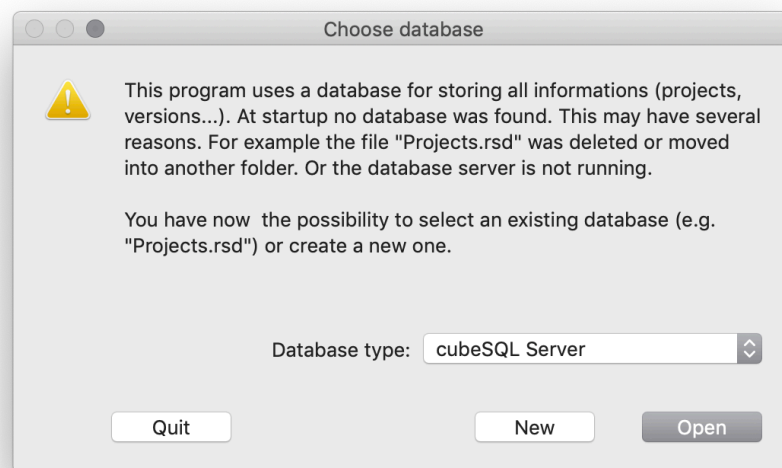
# FIRST STEPS

In the last chapter we installed this program. Now we must customise it. Afterwards we enter the first projects.

## Starting the program

"xProLi" works with an internal database. Therefore, the following steps are not necessary.

This program stores all data in a single database. The location will be stored in a so-called preference file. If the database can't be opened by the value in the preference file, the following dialog appears:



The Buttons has the following meaning:

- **Database type**

You can store all data in a local file or on a database-server. Normally, you should use a local file, so you don't need an additional server.

- **Exit**

This program will be terminated immediately. This function is useful, if the database is not available for a short time. As soon as the problem (for example a deactivated server) is fixed, the program can be started again.

- **New**

After choosing a file with the files dialog, a new database will be created. A suggestion for the data-base is "Projects.rsd". But all other valid file name can be used, too. During the first start of this program, you must select this option.

- **Choose**

If the database was moved or renamed, this program can't find it any more. Even if the preference file was deleted, this dialog will appear. With this Button, you chose the actual database. The new access path is stored in the preference file.

If you select a database-server, you get no file selection dialog. Instead, you get a dialog, where you must enter the connection parameters of your database-server.

# Preferences

Before entering project information, it is necessary to look to the preferences. If some changes are made later, you may loose data. You open the preferences with the menu point "Preferences" from the menu "Mac-ProLi" or "xProLi" (Windows: "Options" from "Edit"). This dialog divides into two parts:

## General

Here, you find general options for this program:

- **Font / Size (Monitor)**

With these two popup-menus, you set the font and size for the lists. In the popup-menu "Font" all existing fonts from the system are shown. The font "System" stands thereby for the font of the operating system.

- **Colored background lines**

If this option is selected, each second line in the lists gets a colored background. You define the color with a click on the colored box. The color of the box will be used for the background. Depending upon the operating system, a window opens for the selection of the color. To save costs, the colored background will not be printed.

- **Font / Size (Printer)**

With these two popup-menus, you set the font and size for the printout. In the popup-menu "Font" all existing fonts from the system are shown.

- **Dialogs (Linux)**

With the different Linux distributions the fonts and sizes vary very much. In addition, there are different GUIs (Gnome, KDE), which displays the controls (Button, popup-menus...) different. To give you the best presentation, your distribution can be selected here. If it is not available, please select a similar one.

If you use "xProLi" or "WinProLi", this point is not available.

The settings are taken over after opening a window, only.

- **Date**

Here, you enter the format for date fields.

- **Redirect print output to a PDF file**

With activated option, all printouts will be redirected to a PDF-file. You enter in a special dialog all necessary parameter (paper size, orientation, font, size...). Because of this, the output may differ from a direct printout.

Only the fonts from the PDF dialog can be used.



Beside the permanent output into a PDF file, you are able to export most outputs with an export function.

- **Direct usage of CUPS for printing (Linux only)**

If there are problems while printing under Linux, you can use this option, too. The advantage of this option is that no external application is necessary. With activated option, an image file will be written and printed with the help of the command "lpr". Instead of the standard printer dialog, an optimized printer dialog will be shown. In this, you can enter the paper format and the resolution. The resulting values of the border and dimension are shown in the dialog and can be changed. In the last two fields, you see the commands to print the image and remove it after printing. In both commands the value "^1" stands for the paper format and "^2" for the path of the image. Maybe, you want to change the command for some special purposes (e.g., printer). All values are stored, so you don't need to change it the next time.

If you use "xProLi" or "WinProLi", this point is not available.

- **Store changes automatic when going to next page**

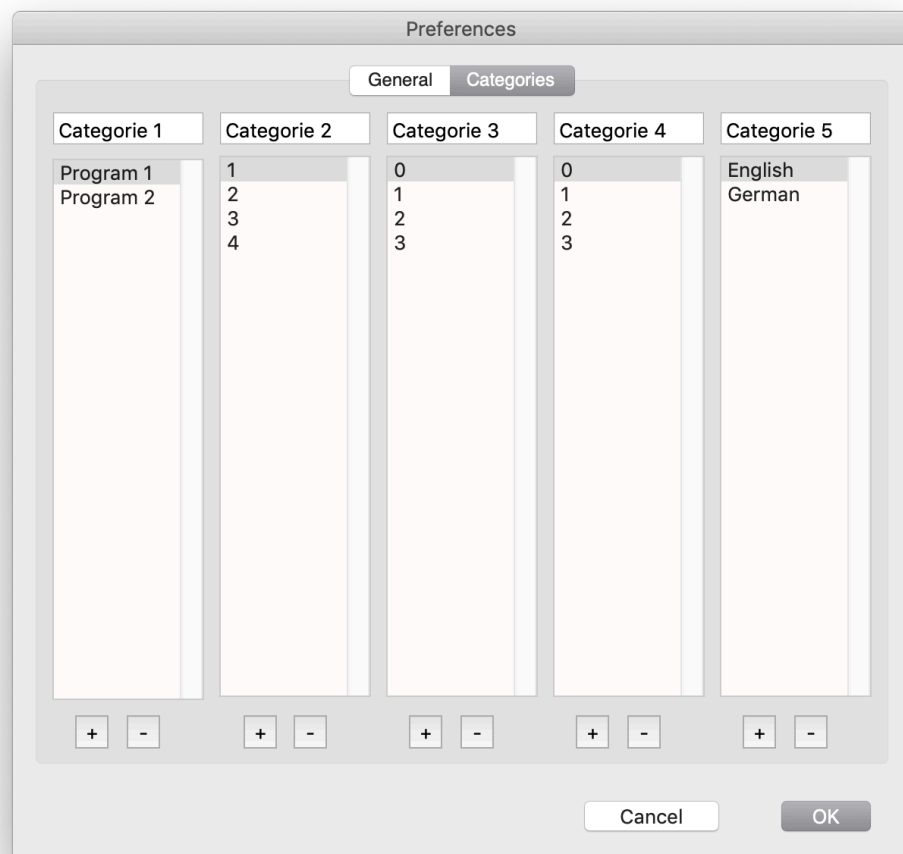
You can go in an edit dialog directly to another entry. Changes in the leaving entry must be saved. If this option is activated, changes will be saved without a hazard-dialog. With deactivated option, you get a hazard-dialog, where you can choose to save the changes or not.

- **Synchronize with iOS direct**

You can administer the data with an iPad or iPhone, too.

## Categories

With categories, you manage your projects. Up to five levels can be used. The idea behind this technique is a tree whose trunk is on the left side. Accordingly, the branches are on the right side. When you create a new database, an example will be created for you. This can be changed for your projects in an easy way. The following figure shows the dialog to manage the categories:



The idea behind these categories is that you enter the projects (e.g., "Mac-HaBu") in the first list. Then one can enter the main version for each project in the second list. After this follow the minor versions in the next columns. I use the item "New" for new functions. With implementation of the function, I change the version from "New" to the correct version number. Of course, you can use this in any other way.

For renaming, you click on the appropriate text. Then one can change it, like every other text field. If an entry already exists, all concerned projects / versions are updated automatically. If you like to remove an entry, you must mark the appropriate field and press the "-" Button underneath the appropriate list. The entry and possibly existing versions below (right of the current list) are deleted. For adding an entry, you must use the Button "+" underneath the appropriate list. The new entry gets automatically the name "New". It can be renamed, as described above. If an entry was marked before you press the Button "+", all elements under the marked one are copied to the new one.

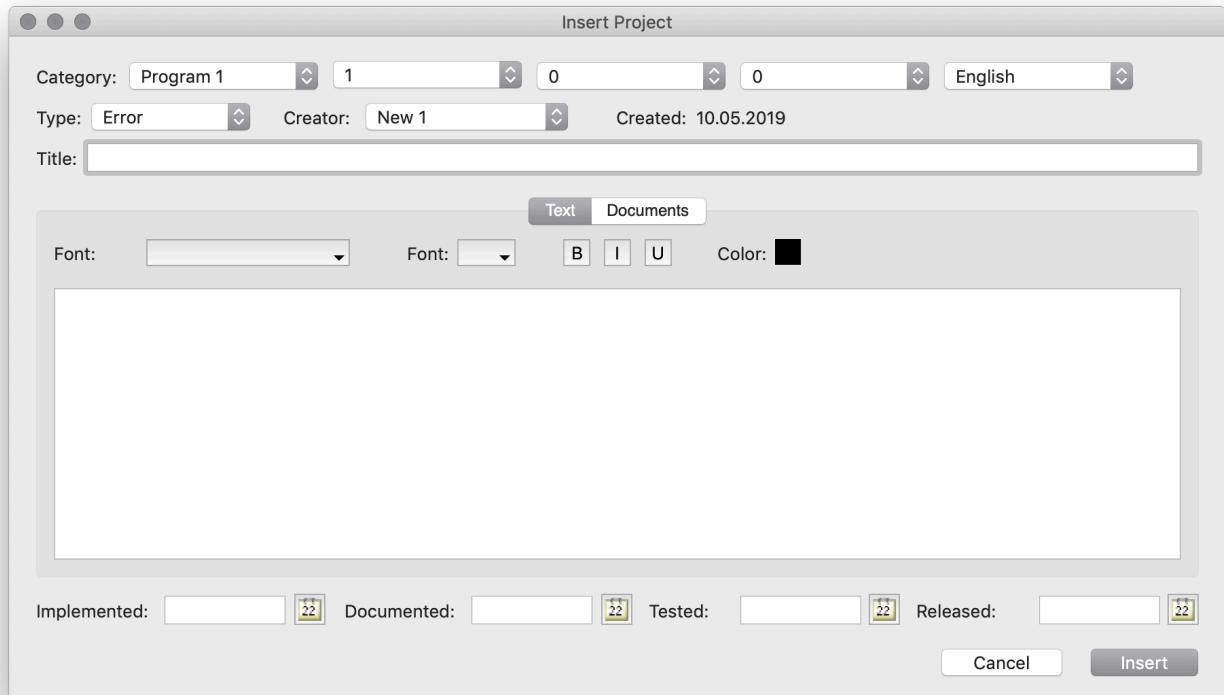
If an entry was marked before you press the Button "+", all elements under the marked one are copied to the new one.

You can open this dialog from the dialog to edit projects, too.

The usage of the categories gives you a maximum of flexibility for managing projects.

# New functions and errors

After all preferences are done, the first functions or errors can be entered. Therefore, you press the Button "Insert" in the empty main list. The following dialog opens:



Here, you choose the appropriate project and version with the five popup-menus in the first line. Thereafter one selects whether it concerns an error or a feature. In the next field you can select the creator of the entry. Before selecting an entry, you must define the possible authors. Therefore, you select the point "Change menu" from the popup-menu. After entering at least one creator, you can select it with the popup-menu. In the field "Created", you see the date this entry was entered. Into the fields "Title" one enters a title of the error or function.

The following part is divided into two cards. The first one contains a text field for the description. For a better readability of the text, it can be formatted. With the second card, you attach documents. The following document types are available:

- **URL**

With this type, an URL of a web page is stored. Beside the URL, a describing text can be entered.

- **File**

Like an URL, a link to a local file is added here. In the database only the link is stored, so the original file must exist furthermore. You must not move or rename the original file.

"xProLi" can't open data outside of the so-called sandbox. So, this function is not available.

- **Notice**

Here, you add a notice.

The values shown in the list ("Title", "Text") can be edited by a click on the corresponding value. To view the stored information, press the Button "Open". According to the type of the information, different actions are necessary:

- **URL**

An URL is shown in the default browser.

- **File**

A file will be opened by the program, associated in the operating system.

- **Notice**

The notice will be shown in the same dialog, you used for entering it. All values of it can be changed.

All elements can be added by Drag'n Drop, too. While adding text, the application recognizes URLs and adds the text as an URL, if it is one. Otherwise it adds a notice. Finally, every element can be removed from the list with the Button "Delete".

The following four date fields indicate the progress state. Here, the date should be entered, at which the respective work was successfully done. If a step (implemented, documented, tested) was skipped, it will be entered during the input of the next step, automatically. With these date fields, you have the possibility to use a popup dialog for entering the date, too. The popup dialog can be opened by clicking on the calendar symbol on the right side of the text field. Afterwards a dialog opens, in which you can select the date with the mouse. Alternatively, you are able to use the command-key (Windows / Linux: Control) and the arrow keys (Up / Down) to enter the date.

All inputs are checked as far as possible for plausibility. Fields, who contains incorrect values, gets a red background. These must be corrected before you can press the OK Button.

With Linux, it is not possible to change the background. Therefore the text is shown in red and italics. If mandatory fields are not filled in, a question mark will be displayed.

## Main list

After a function or an error was entered, it appears in the main list. Here, all fields are shown. In most cases, you don't need all columns. Therefore, one can change the width of each column individually. To do this, one moves the mouse cursor in the column title between two columns. The cursor changes its shape and you can change the size of one column. If you don't want to see a column, you can change its size to zero.

One can reduce this list with the fields in the upper part of the dialog. For the date fields (implemented, documented, tested, released) there are three states of the respective popup-menu. An empty entry does not have an influence on the selection. The status "Open" shows only entries, which has no date. Accordingly, the status "Done" shows only entries, which has a date. With the five popup-menus of the category, one can limit the selection to projects and versions.

Sometimes, a function or an error message must be processed in several versions or projects. Then, you can copy an entry with the Button "Copy". The duplicated entry can then be changed for the second version. Often, you must change the state of an entry, but don't need to update the text. For this situation, you can change the state of the marked entry with the right Button. The date for this state gets the current date.

Of course, this list can be sorted by each column, too.

# ALL MENUS

## File

### Database

Normally, with the first start of the program a new database was created. In this, all data, also several projects can be stored. If you need, for some reasons another local database, you need this menu point. Also for switching to a database-server, this point must be used.

With "New" a new database will be created. For a local database, also the file will be created. When using a database-server, only the tables, indexes and predefined values are created. With "Open", you select a local file or create a connection to the server.

The points "New" and "Open" are sub-menus of "Local database", "cubeSQL" and "PostgreSQL".

If you use "xProLi", an internal database will be used. Therefore, this point is not available.

## Close

With this menu point, you close a window, which has a close box. The main window, which is always visible, can't be closed with this point.

### Page setup

Hereby, you open the dialog for changing the paper format. The appearance differs, depending upon printer model and operating system.

Linux integrates the functions of the page setup in the printer dialog. Therefore, this point is not available.

## Print

You can print all lists with this menu point. Before you can print a list, you have to open it on the screen. The column size of the printed list depends on the column size on the monitor.

If the columns are too small, you should use the landscape format or a smaller size of the font.

# Reorganize

With this menu point, the database will be tested, reindexed and compacted. If many records were deleted, the size of the database file can be reduced significant.

## Export

All lists and reports can be exported into a file (HTML, XML, text or PDF), an Excel-sheet or the clipboard.

Exported files may differ from files, which can be imported.

## Text-File

With this point, you export the list into a file. After opening, you must select the target file with the standard file dialog. After confirmation, the selected list will be exported. For the separation of the columns the tabulator character is used.

## XML-File

Like the export into a text file, you can export the list into an XML-file, too. The values will not be in list form, but as XML tags. Another program, with an XML-Interpreter, can import these data. The tag names of each column correspond to the heading name in the dialog.

Because tag names must not contain special characters, these are suppressed during the export.

## Microsoft Excel

With this function, the active list will hand over to "Excel". The values of the appropriate list will be entered thereby directly into a new sheet. For the usage of this function, "Excel" must be installed on the computer. Under Windows, the OLE interface is used for the communication with Excel. On the Macintosh, AppleEvents are used.

With the first call of the function, you may get a list with different applications (only Macintosh). In this case the Macintosh could not find "Excel". Please select in this list your current installation of "Excel". With the second call of the function, this list doesn't appear any more.

This function is not available under Linux.

## Clipboard

With this function, the active list will be copied into the clipboard. Most spreadsheet application can insert the clipboard into an open table.

After exporting the values in this program, you must insert them in the spreadsheet application.

You can use other applications, too.

## HTML-File

This function creates an HTML file with contents of the current list. The export works like the export into a text file. The data are formatted in such a way that an HTML Browser can display it.

## Acrobat PDF

With this menu point, the active list or graphic is exported in a PDF file. After selection this function, a dialog appears, where you enter the necessary parameters (paper size, orientation, font, size ...). The appearance may differ from a direct print out.

Only the fonts from the PDF dialog can be used.

With activated option "Redirect print output to a PDF file", this function will be used for all prints.

## Database

With this point, a copy of the database file will be created. You need this item, if you want to use the database of "xProLi" with another installation, for example. After selecting a directory, a copy of the currently used database is created.

## Import

Project data can be imported from a file (text or XML) or an open "Excel" sheet. From most spreadsheet applications, you can transfer the values via the clipboard, too. Normally, the import has the same format as the corresponding list. But hidden columns are imported, too. So, it is a good idea to export the list, first. Then you have an example.

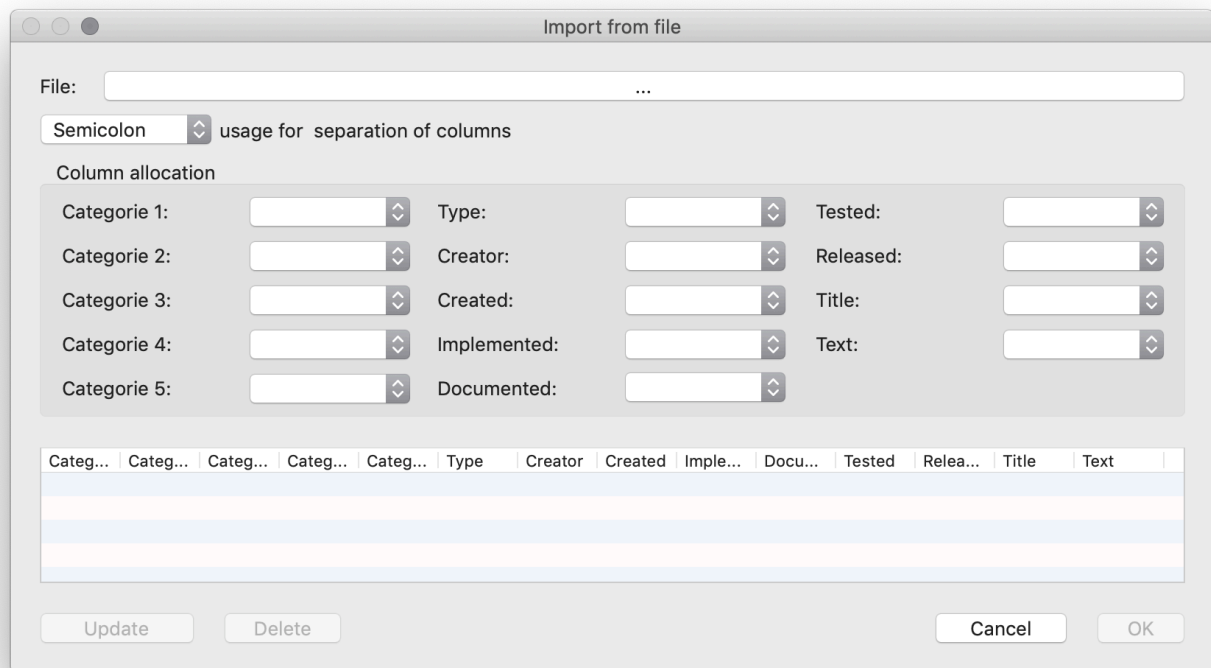
This program checks the import for known errors. Nevertheless, it is not possible to exclude all possible errors. Therefore, you should make a backup of the database, before you start the import.



In many cases, the errors do not arise in the first lines. Examine therefore the complete list for possible errors, please.

## Text-File

With this menu point, you import project data from a flat text file. The individual fields in the dialog have therefore always a correspondence in the import file. After opening, you see to the following dialog:



- **File**

With the Button "File", you select the import file. This can be each text file with appropriate values. After selection of the file, the file name appears instead of "..." in the Button. While opening the file, a preview will be created. In most cases, you will see fields with a red background. This is a sign, that there is an error in the import file or the allocation. In the next step, you must change the value in the import file or the allocation. Only if there are no fields with a red background, you can import the file.

- **...usage for separation of columns**

With this popup-menu, you select the separator between the columns of the import file. After a change of the separator, you must refresh the preview with the Button "Update".

- **Column allocation**

Within this area, all columns of the list are shown. With the popup-menu right from each column title, you select the column in the import file.

- **List**

To correct a cell, click twice on the cell. Now, you are able to change the value.

- **Update**

You can correct and store the import file with another program while this dialog is open. To update such changes in the preview, this Button must be pressed. This function is very helpful to eliminate errors in the import file.

- **Delete**

With this Button, you delete a line from the preview. This line will not be imported any more. But the file will not be changed. Therefore, the line appears again, if you press the Button "Update".

- **OK**

You can start an import only, if there are no errors in the preview. The import can't be canceled. The imported dates appear in the current list.

## XML-File

The import of an XML-File is similar to the import from a text file. The data must be in the XML format, defined by this program. This dialog is like the dialog to open text files. Only the Button for the selection of the separator and the popup-menu for the selection of the column are not available. The assignment is done by the tag name of each column in the file and the heading name of the list.

## Microsoft Excel

The import from Excel is similar to the import from a file. But the data to import must be in an open Excel sheet, instead of a text file. The data will be read until the first line without values. With the call of this function, a dialog opens, similar to the import from a file. Only the Button for the selection of a file and the popup-menu for the selection of the column separator are not available.

Under Windows, the OLE interface is used for the communication with Excel. On the Macintosh, AppleEvents are used.

With the first call of the function, you may get a list with different applications (only Macintosh). In this case the Macintosh could not find "Excel". Please select in this list your current installation of "Excel". With the second call of the function, this list doesn't appear any more.

This function is not available under Linux.

## Clipboard

If you use another spreadsheet application then Excel, you can use the clipboard to import values into this program. Therefore, you mark the area, you want to import in the spreadsheet application, first. Then you copy the selection into the clipboard. After that, you start this menu

point. While opening, the clipboard will be analyzed and inserted into the list. With "Update", this step will be done, again. The further operation does not differ from the import from Excel.

The values must be available in the clipboard, before you start this function.

## **D a t a b a s e**

With this point, the current database file is replaced with the selected one. This can, for example be used for a restore. Or even if you use "xProLi" and want to use an existing database. After selecting the database file, it is copied to the location of the currently used database. The previously used database is overwritten.

## **S y n c h r o n i z e   w i t h   i O S**

Use this point to synchronize data with "iProLi".

## **Q u i t**

Hereby, you quit the program. All changes will be saved automatically.

## **E d i t**

## **C u t**

This point is in all dialogs active. You can copy and delete the selected text into the clipboard.

## **C o p y**

This point is in all dialogs active. You can copy the selected text into the clipboard. In lists, the selected line is copied into the clipboard. The columns are separated by a tabulator.

## **P a s t e**

This point is in all dialogs active. If there is a text in the clipboard, it is copied into the text field.

## **D e l e t e**

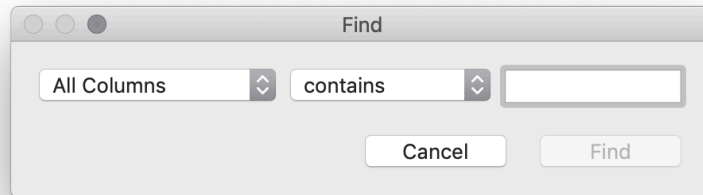
In some lists, there is a Button "Delete". If it is active, you can delete the selected data with this point, too.

# Select All

With this point, you select all lines of a list.

# Find

In the main list, you can search for text. The dialog looks as follows:



With the left popup-menu, you select the column, in which you want to search. If you like to search in all columns of the list, you must select the first entry ("All Columns"). With the middle selection, you specify the search type. There are the following options:

- Contains
- Is like
- Starts with
- Ends with

The search is done by comparing the two texts. Also numbers are interpreted as text. In the text field, you enter the searched text. With "Find", the search starts in the first line of the list. If in the active list an element can be selected, and the search is successful, the result is selected. If no element can be selected in the list, the appropriate line will be displayed, without selecting it.

# Find again

With this function, you can search for the next line in the list. Before you can use this function, you have to use the menu point "Find", to find the first line. If this function reaches the end of the list, you will hear an alert sound. The next call starts at the top of the list, again.

# Preferences

Before beginning your work, you must configure this program in the preferences. Some points can't be changed without loss of data. You open the preferences with the menu point "Preferences" from the menu "Mac-ProLi" or "xProLi" (Windows / Linux: "Options" from "Edit").

# Graphic

This program offers the possibility to show the entered dates with a graphic. The number of the respective entries over the time is shown. As a selection criterion serves the value in the corresponding field (created, implemented, documented, tested and released). Of course, you can select the dates, as in the main list. If you move the mouse over a bar, the exact value is displayed.

# Other

# About

This point opens a dialog with the version number and manufacturer.

# MC Richter GbR on the Web

Hereby, you start the standard web browser with the web page of [MC Richter GbR](#). There you find more information about this program and the other products of MC Richter GbR.

# Mail to MC Richter GbR

With this point, you open a new [mail](#) to MC Richter GbR in your standard mail program.

# Web

Hereby, you start the standard web browser with the [web page](#) of this program.

# Forum

In this [forum](#), you find additional information about our products. It is only in German language available.

# User guide

With this point, you open the user guide.

# FILES

This program is available for macOS, Windows and Linux. Resulting from this, not all of the following files are necessary. Some files, like the user guide, are in German and English language available.

- **xProLi X.app / Mac-ProLi X.app / Win-ProLi.exe / Win-ProLi Libs**

This file contains the program for the corresponding operation system.

- **Win-ProLi Libs / Lin-ProLi.app Libs**

This folder contains additional libraries for "Win-ProLi" and "Lin-ProLi".

- **Resources**

This folder contains language information for "Win-ProLi" and "Lin-ProLi".

- **User guide.pdf / Handbuch.pdf**

This file contains the user guide as Adobe Portable Document File (PDF). It can be read and printed for example with the program "Adobe Acrobat Reader". It is not necessary for the program execution.

- **Projects.rsd / Projekte.rsd**

This is the name of the database, which is suggested in the file dialog. You can move this file into every other folder. After moving the file and starting the program, you are asked for the current folder. The same applies, if you change the name of the database.

If you use this program on different computers, you must copy this file to the other computer. Please pay attention to use always the latest version of the file.

The database can be used without any conversation on all supported operating systems.

"xProLi" stores the data within the so-called sandbox. Normally, you do not need direct access to this file.

- **xProLi (Pref.) / Mac-ProLi (Pref.) / Win-ProLi.ini / Lin-ProLi.ini**

One of the first two names are used by macOS. It is placed in the so-called Preference folder. Alternatively, it can be put into the program folder. On Windows it ("Win-ProLi.ini") is placed in the Windows directory, or in the user directory. This depends on the used version of the operating system. Linux stores this file ("Lin-ProLi.ini") in the user directory. If the file was deleted, you are asked during the next program start for the path of the database file. Thereby no data are lost.

"xProLi" stores the data within the so-called sandbox. Normally you do not need direct access to this file.

- **MacProLiLog.txt / WinProLiLog.txt / LinProLiLog.txt**

This file is created during each program start in the same folder as "Mac-ProLi (Pref.)" / "Win-ProLi.ini" / "Lin-ProLi.ini". It contains information for debugging and will be recreated by every program start. If an error occurs, I can read important information from this file. This information is stored by system-tools, too.

"xProLi" and "WinProLi" don't create a log file.

# VERSIONS

In the last versions, the following important functions were implemented:

- **Version 1.0**
  - **First Version**

This is the first public version. I use it for all my projects. With the help of the import function I imported all entries from my old AppleWorks database.
- **Version 1.1**
  - **XML Export and Import**

Data can be exported to XML-files and imported from XML-files.
- **Version 1.2**
  - **Change of the database engine**

For the preparation to universal application (for Intel Macs) the database engine was changed.
  - **Graphical overview**

A graphic overview of each step (created, implemented, documented, tested) was implemented.
- **Version 1.3**
  - **Linux**

This version ("Lin-ProLi") is available for Linux systems like Suse and Ubuntu. The database is compatible with the versions for Macintosh and Windows.
- **Version 1.4**
  - **Behavior of lists**

The behavior of lists was optimized.
- **Version 1.5**
  - **REAL SQL Servers**

This program supports now the "REAL SQL-Server".
  - **HTML export**

You can export each list as an HTML file, now.
- **Version 1.6**
  - **Synchronization of the database file**

When using semaphore, you can synchronize the database file, too.
- **Version 1.7**
  - **Import and export via clipboard**

Beside Excel, and text files, you can use the clipboard to transfer values from and to lists.
  - **PDF**

Permanent or individual output of all outputs to a PDF file.
- **Version 1.8**
  - **Documents**

You are able to attach documents, now.
- **Version 2.0**



- **Styles for text**  
You are able to use different Styles (font, size, color...) in the description and in the notes.
- **Version 2.1**
  - **PostgreSQL**  
As an alternative to the REAL Server, you can use PostgreSQL. You can use it free of charge.
- **Version 2.2**
  - **cubeSQL**  
The REAL server was purchased by SQLabs. It can be used in the same way as before.
- **Version 2.3**
  - **Error-logging additionally with system-tools**  
Additionally of logging errors into an independent file, these are stored with the system-tools, too.
- **Version 3.0**
  - **iProLi**  
For iPhone and iPad is "iProLi" available, now. This App can be used as standalone application. But in most cases, it makes more sense to synchronize data between "iProLi" and "Mac-ProLi", "Win-ProLi" or "Lin-ProLi".
- **Version 3.1**
  - **Cell correction while importing**  
If there are wrong values in the import, you are able to correct them.
- **Version 3.2**
  - **App Store**  
You can download "xProLi" from the Apple App Store. It is still available as a direct download.
- **Version 4.0**
  - **Synchronization with iProLi optimized**  
Now, it is possible to synchronize several mobile devices with one desktop application.
- **Version 4.1**
  - **Lin-ProLi as 64 Bit Version**  
We build Lin-ProLi as a 64 Bit version. The 32 Bit libraries are not necessary any more.
- **Version 4.2**
  - **AFP-Server and Semaphore**  
With macOS 10.12 it is no longer possible to mount an AFP server without additional password input. Therefore, a terminal command can be executed before and after the test.
- **Version 4.3**
  - **No more limit while displaying the main list**  
In the main list, there is no more limit in the output.
  - **Windows Store**  
You are able to download this version from the store of windows.
- **Version 4.4**
  - **Mac-ProLi supports 64 Bit hardware**  
The version for macOS is now created as a 64-bit application.

- **HiRes support for Win-ProLi**

Also Win-ProLi now supports high resolution (HiRes).

- **Version 4.5**

- **Window position and size depending on screen**

The position and size of the windows will now be saved depending for each connected screen independent. This makes it easy to switch between different monitors. For example, if an external monitor is used with a laptop.

- **Additional state "Released"**

With this fourth status, you can enter when a version has been released. During the migration of the previous data records, this status is set with the date of the status "tested".

- **Version 4.6**

- **Synchronize with the help of a file**

For the synchronization with "iProLi", you are able to use a file, too.

- **Online-Help as PDF**

Now, we use a PDF for the online-help. This is the same file, you can open from the folder.

- **Version 4.7**

- **Display of dialogs optimized (Linux)**

For Linux the display of dialogs was optimized. Now, you are able to select your distribution.

- **Dark mode**

Under macOS, the dark mode is supported now

- **32-bit Linux support dropped**

With this version, we dropped the support for the 32 bit version of Linux.

- **Version 4.8**

- **Usage of GTK 3 for Lin-ProLi**

Lin-ProLi now supports GTK 3 instead of GTK 2 to improve the display under Linux.

- **Version 4.9**

- **User guide**

The user guide has been revised.

- **Values in graphics**

If you move the mouse over a bar, the exact value is displayed.

- **Version 5.0**

- **Interface to iProLi**

We improved the interface to iProLi. Please use all the actual version of iProLi for synchronization.

# CONTACT

If you have suggestions for this program, any errors found or other questions, please contact us.

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