

the protocollinker plugin  
for brainvoyager qx

August 20, 2007

## Contents

<b>1</b>	<b>General information about the protocollinker</b>	<b>2</b>
1.1	Components . . . . .	2
<b>2</b>	<b>Using the protocollinker</b>	<b>2</b>
2.1	Preparation . . . . .	2
2.2	Using the script . . . . .	4
2.3	Using the plugin . . . . .	5

## 1 General information about the protocollinker

*Reason of solution:* This plugin can save time by replacing manual linking by automated linking.

*Date created:* 2006.

*Current version:* 0.2 (for BrainVoyager QX 1.9).

*Version of description:* 0.2.

*Description of the functionality* The plugin links BrainVoyager QX stimulation protocol files (\*.prt) to volume time course files (\*.vtc). The prt-vtc pairs are provided via a file list that can be created via the BrainVoyager QX script

CreateFileList\_VTC\_PRT\_v02.qs.

### 1.1 Components

The solution exists of the following components:

1. A QSA script: CreateFileList\_PRT\_VTC\_v02.qs
2. A plugin
  - for Windows: protocollinker\_v02.dll
  - for Mac OS X: protocollinker\_v02.dylib
  - for Linux: protocollinker\_v02.so

## 2 Using the protocollinker

### 2.1 Preparation

Place the script in the /My documents/BVQXExtensions/Scripts folder/ (see figure 1).

The script needs to be imported in the current script project. This can be performed via the BrainVoyager menu `Scripts > Edit`. The script editor will open. Load the script via `File > Import scripts` (see figure 2 and save the project.

Put the plugin in the /My documents/BVQXExtensions/Plugins/ folder (see figure 3). The plugin will be loaded automatically when starting BrainVoyager QX. Please note that the plugin cannot be seen by BrainVoyager QX when it is located in a subfolder of the /My documents/BVQXExtensions/Plugins/ folder.

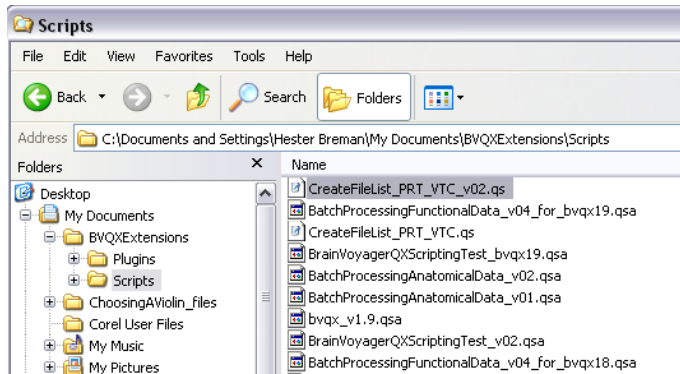


Figure 1: Location of the script

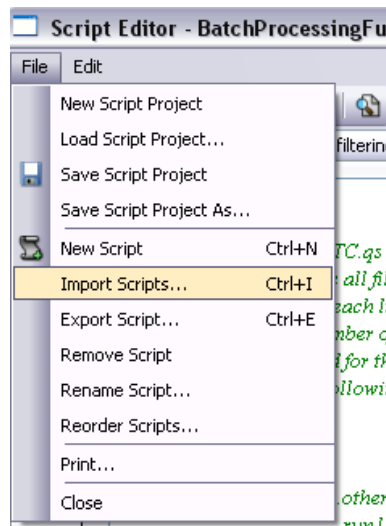


Figure 2: Importing the script in the BrainVoyager QX Script Editor

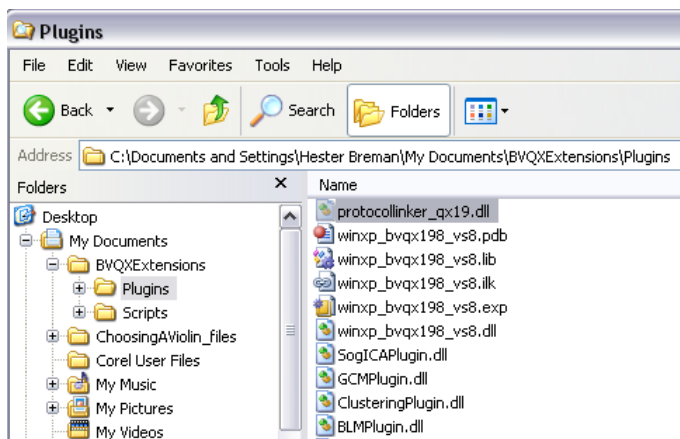


Figure 3: Location of the plugin

## 2.2 Using the script

Run the “Create PRT VTC file list” function from the BrainVoyager QX Scripts menu (see figure 4).

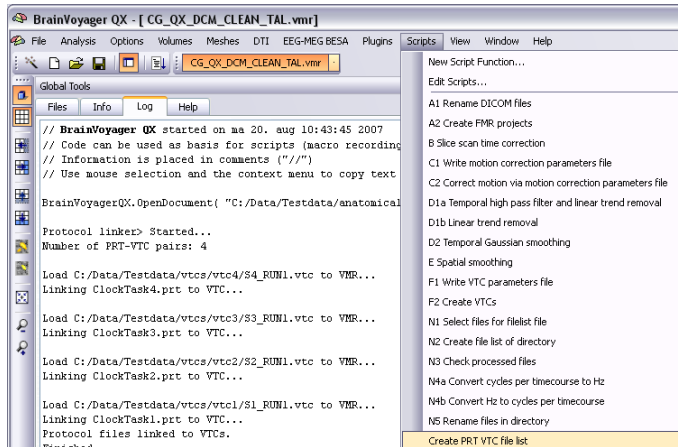
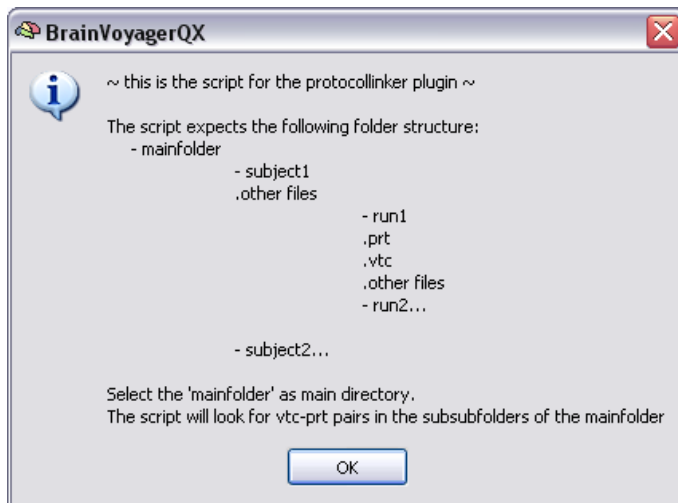


Figure 4: Starting the script via the BrainVoyager QX Scripts menu

A message box will appear explaining the use of the script (see figure 2.2). The



idea is to select a main folder, after which all subsubfolders of the main folder will be searched for pairs of protocol files (\*.prt) and volume time course (\*.vtc) files. There should only be one \*.prt and one \*.vtc in a subsubfolder; in case there are more than one \*.prt or \*.vtc files present in the subsubdirectory, a random \*.prt or \*.vtc will be selected.

The subfolders could be different subjects, and the subsubfolders different runs, for example. The script will traverse the subsubfolders (the 'runs').

The directory traversal of the script can be followed via the BrainVoyager QX Log tab (see figure 5) and the script will indicate the proceedings via a message box.

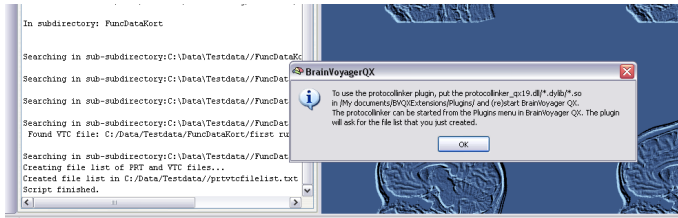


Figure 5: The names of the files are printed to the BrainVoyager QX Log tab

### 2.3 Using the plugin

After the file list (\*.txt) is created, open a VMR and activate the protocol linker plugin via the BrainVoyager QX Plugins menu (see figure 6).

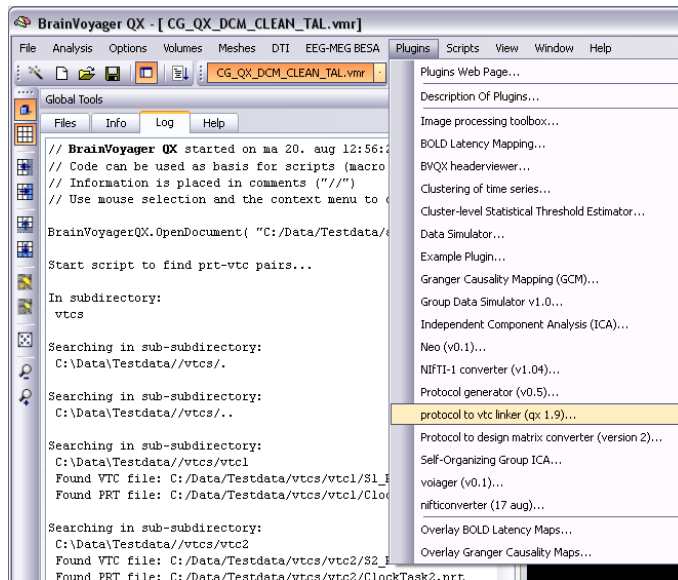


Figure 6: Start the protocollinker plugin via the BrainVoyager QX Plugins menu

The plugin will ask for the file list created by the script (see figure 7).

For each prt-vtc pair, the plugin will load the VTC to the VMR, and link the protocol file to the VTC. The results are printed to the BrainVoyager QX Log tab (see figure 8).

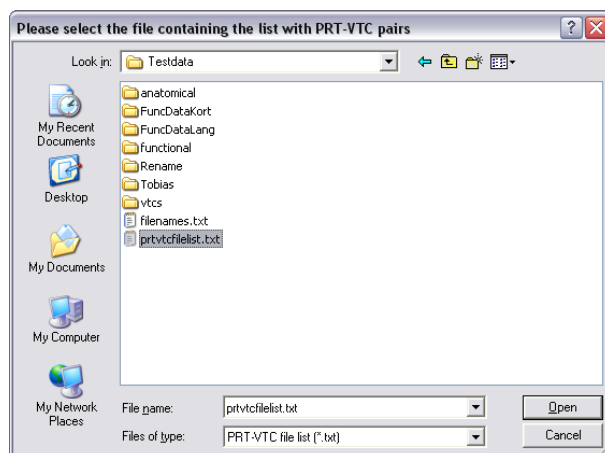


Figure 7: Selecting the file list made by the script

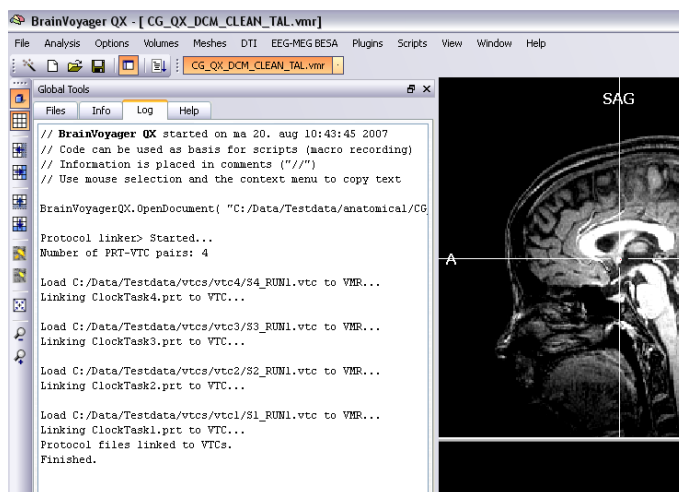


Figure 8: The names of the linked pairs are printed to the BrainVoyager QX Log tab