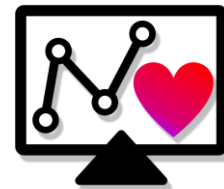
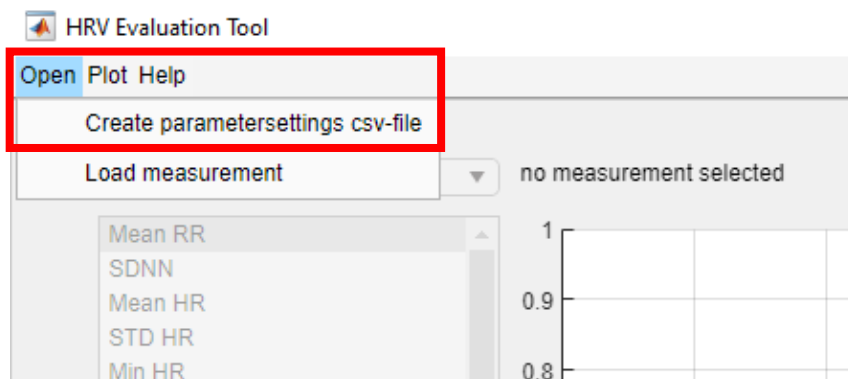


# Step-by-Step-Guide

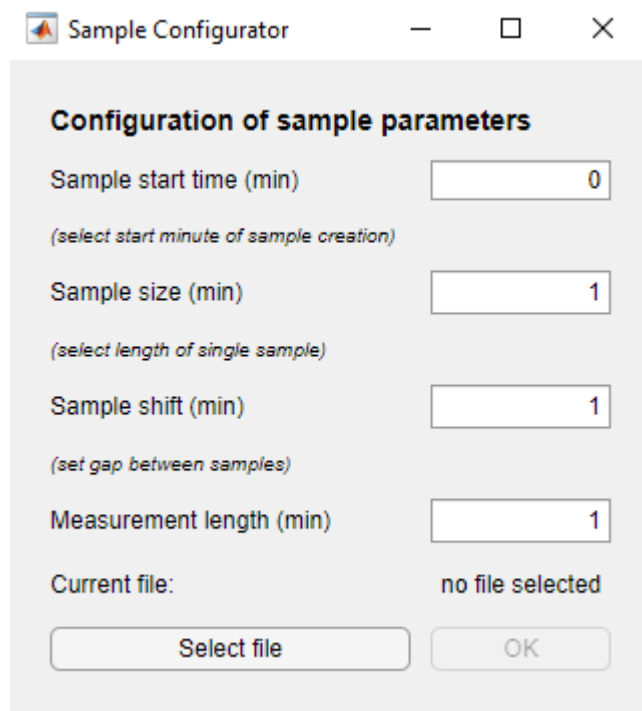


## 1. Configuration of Samples

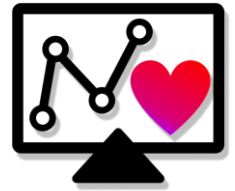
In order to visualize a new measurement within the tool, a suitable export file of the data must first be generated in Kubios HRV Premium. To do this, select "Open" in the menu and then click on "Create parametersettings csv-file".



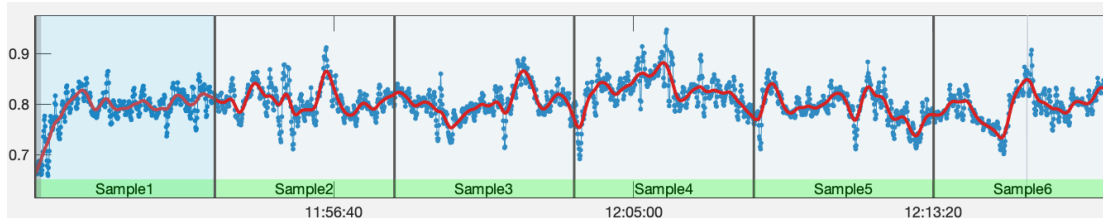
A popup window opens in which the configuration of the samples can now be carried out. There are four important parameters which have to be set. Within the **Sample start time** the start of the measurement can be selected, for example to cut off a certain time at the beginning of the measurement. The **Sample size** corresponds to the length of a single sample. The **Sample shift** defines the shift of each sample. If this is smaller than the length of the samples, for example, an overlapping of the data can be forced. Next, the length of the measurement must be specified. If this is set to a value smaller than the actual length, the data can be cut off at the end of the measurement. Finally, the measurement file must be imported.



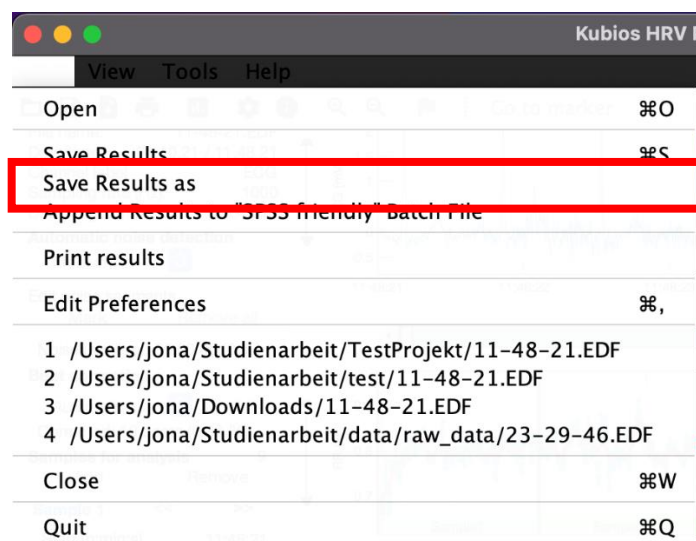
# Step-by-Step-Guide



After confirming the configuration, a CSV file is created in the directory of the measurement file (this is important for creating the samples and must be in the same directory!) and Kubios HRV Premium opens (at the moment MacOS only). The sample configuration happens automatically, it should be visible within Kubios (see figure).

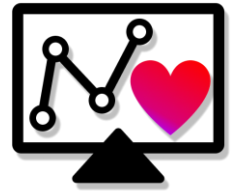


The next step is simply to create an export of the measurement in .mat format.



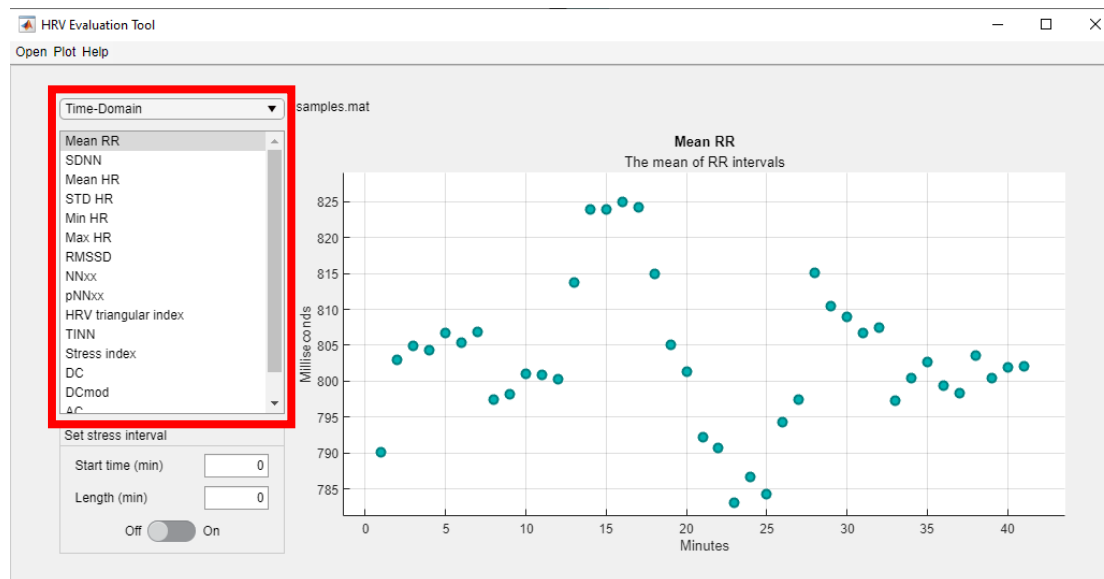
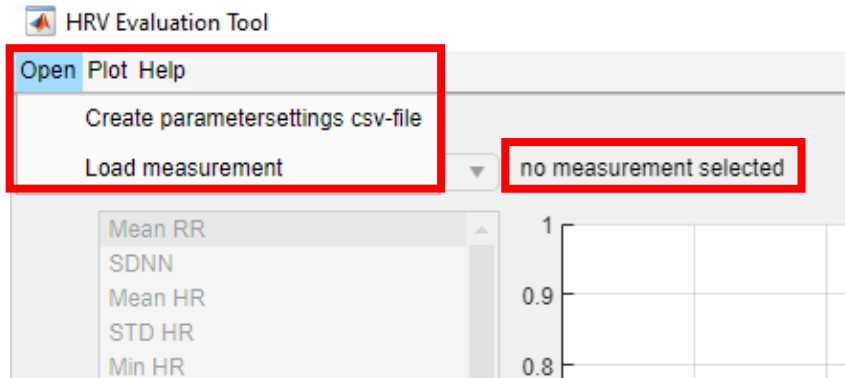
The created mat file provides the basis for visualization within the tool.

# Step-by-Step-Guide



## 2. Visualization of data

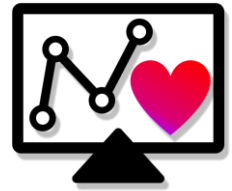
To visualize a configured measurement, a mat file must be loaded. This is done in the menu "open" under the item "Load measurement". If the loading is successful, the name of the file is displayed on the left above the coordinate system.



### 2.1 Adjustment of the visualization

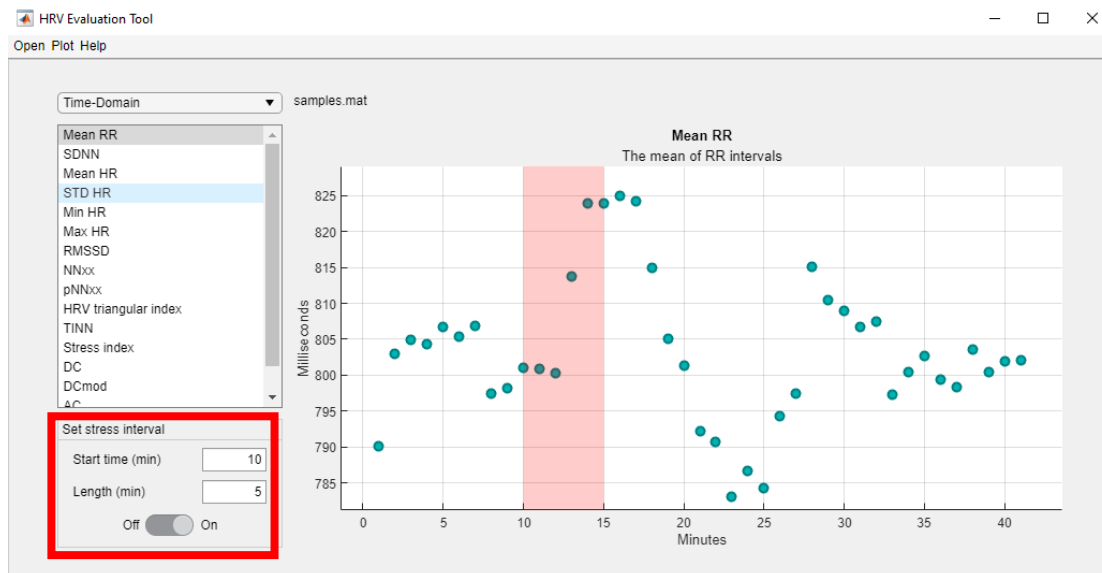
Within the coordinate system, you can zoom in and out or move the axes to create an optimal display. A reset is possible under the menu item "Plot" or at the upper right corner of the graph with the house symbol.

# Step-by-Step-Guide



## 2.2 Adding the stress interval

Adding a load interval is done in the lower left corner below the parameter selection. For this purpose, the start time of the load interval and the length must be defined. The interval can then be switched on or off with the toggle button below.



## 2.3 Saving the visualization

The created graph can now be saved as an image. This is done via the menu item "Plot" under "Save plot".

