1. Make sure you have matlab with psychtoolbox running.
2. Copy ‘CosyGraphics\_dependencies’ to your hard drive.
3. Add the ‘CosyGraphics\_dependencies’ folder to the path in Matlab (recursively)  
   File -> Set Path… -> Add with subfolders -> <choose CosyGraphics\_dependencies> -> Save -> Close
4. In case you want to register triggers through the parallel port
   1. Find out the address of your parallel port this way:   
      (type the blue things in Matlab’s command window, use the yellow ones)

>> devcon hwids =Ports

ACPI\PNP0401\5&17C68A2&0

Name: Port imprimante ECP (LPT1)

Hardware ID's:

ACPI\PNP0401

\*PNP0401

ACPI\PNP0501\1

Name: Port de communication (COM1)

Hardware ID's:

ACPI\PNP0501

\*PNP0501

FTDIBUS\VID\_0403+PID\_6001+A6008MKJA\0000

Name: USB Serial Port (COM7)

Hardware ID's:

FTDIBUS\COMPORT&VID\_0403&PID\_6001

3 matching device(s) found.

>> devcon resources ACPI\PNP0401

ACPI\PNP0401\5&17C68A2&0

Name: Port imprimante ECP (LPT1)

Device is currently using the following resources:

IO : 0378-037f

IO : 0778-077f

DMA : 0

1 matching device(s) found.

* 1. In the example, the port number would be ‘037f’. Your output can look completely different, depending on the configuration of your computer. You might need some trial and error to find the correct port number for your system. In any case, in the examples, always replace the address by your own parallel port address (or at least the one you think is the correct one).
  2. Test whether sending triggers results in the correct output:

>> openparallelport\_inpout32(hex2dec('037f'))  
OPENPARALLELPORT\_INPOUT32-info: Opening parallel port... InpOut32.dll is used instead of Matlab's Daq toobx...  
PARALLELPORT\_INPOUT32-INFO : DLL file initialization OK.  
>> sendparallelbyte(255)  
ans =  
 4090  
(try with a few numbers and look in the eeg recording whether the number is received and correct)   
>> closeparallelport

* 1. If the values you receive are wrong, or you don’t receive any values at all, play a bit with the port address until you get the triggers right…
  2. In ‘CosyGraphics\_dependencies\program’ you’ll find a file called ‘sinstim1p8p9.m’:  
     in line 553: openparallelport\_inpout32(hex2dec('037f'));  
     replace the port address by the correct address in your system

1. You should now be able to run the example experiment:

>> sinstim  
parameter file: choose one of the files in ‘exampleExpt\parameters’  
stimulus folder: chose one of the folders in ‘exampleExpt\stimuli’

Subject name: enter something (or leave blank if you don’t want output being saved)

1. To change the type of experiment you can adapt the parameters in the files you find in ‘exampleExpt\parameters’. Most paramters should be clear from their explanation in the files themselves. However, some of these things might be a bit out of date… If you really want to know what certain parameters do, and it’s not immediately clear, play a little with them, and see what happens ☺ .
2. The scripts in ‘runExperimentTools’ will help you with running your experiments in an efficient way. You can use them for creating blocks of trials, and for running these blocks in a semi-automatic way. There is a manual in the folder.