

Classroom License -- for classroom instructional use only.

>> contrastThresholds

PTB-INFO: This is Psychtoolbox-3 for Apple OS X, under Matlab 64-Bit (Version 3.0.15 -  
Build date: Oct 19 2018).  
PTB-INFO: Support status on this operating system release: OSX version 10.12 is not  
officially supported or tested at all for this release.  
PTB-INFO: Type 'PsychtoolboxVersion' for more detailed version information.  
PTB-INFO: Most parts of the Psychtoolbox distribution are licensed to you under terms of  
the MIT License, with  
PTB-INFO: some restrictions. See file 'License.txt' in the Psychtoolbox root folder for  
the exact licensing conditions.

PTB-INFO: OpenGL-Renderer is Intel Inc. :: Intel(R) Iris(TM) Pro Graphics 6200 :: 2.1  
INTEL-10.25.24  
PTB-INFO: Renderer has 1536 MB of VRAM and a maximum 1536 MB of texture memory.  
PTB-INFO: VBL startline = 1200 , VBL Endline = -1  
PTB-INFO: Beamposition queries unsupported or defective on this system. Using basic  
timestamping as fallback.  
PTB-INFO: Timestamps returned by Screen('Flip') will be therefore less robust and  
accurate.  
PTB-INFO: Measured monitor refresh interval from VBLsync = 16.679605 ms [59.953460 Hz].  
(50 valid samples taken, stddev=0.351505 ms.)  
PTB-INFO: Small deviations between reported values are normal and no reason to worry.  
PTB-WARNING:

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PTB-WARNING: DESKTOP COMPOSITOR IS ACTIVE! ALL FLIP STIMULUS ONSET TIMESTAMPS WILL BE  
VERY LIKELY UNRELIABLE AND LESS ACCURATE!  
PTB-WARNING: STIMULUS ONSET TIMING WILL BE UNRELIABLE AS WELL, AND GRAPHICS PERFORMANCE  
MAY BE REDUCED!  
PTB-WARNING: DO NOT USE THIS MODE FOR RUNNING REAL EXPERIMENT SESSIONS WITH ANY  
REQUIREMENTS FOR ACCURATE TIMING!  
PTB-WARNING:

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WARNING: Couldn't compute a reliable estimate of monitor refresh interval! Trouble with  
VBL syncing!?

----- ! PTB - ERROR: SYNCHRONIZATION FAILURE ! -----

One or more internal checks (see Warnings above) indicate that synchronization  
of Psychtoolbox to the vertical retrace (VBL) is not working on your setup.

This will seriously impair proper stimulus presentation and stimulus presentation timing!  
Please read 'help SyncTrouble' for information about how to solve or work-around the  
problem.  
You can force Psychtoolbox to continue, despite the severe problems, by adding the  
command  
Screen('Preference', 'SkipSyncTests', 1); at the top of your script, if you really know  
what you are doing.

```
PTB-INFO: Psychtoolbox imaging pipeline starting up for window with requested imagingmode 1061 ...
PTB-INFO: Will use 32 bits per color component floating point framebuffer for stimulus drawing. Alpha blending should work correctly.
PTB-INFO: Will use 32 bits per color component floating point framebuffer for stimulus post-processing (if any).
Building a fragment shader:Reading shader from file /Users/Shared/Psychtoolbox/PsychOpenGL/PsychGLSLShaders/ICMSimpleGammaCorrectionShader.frag.txt ...
Compiling all shaders matching BasicGaborShader * into a GLSL program.
Building a fragment shader:Reading shader from file /Users/Shared/Psychtoolbox/PsychOpenGL/PsychGLSLShaders/BasicGaborShader.frag.txt ...
Building a vertex shader:Reading shader from file /Users/Shared/Psychtoolbox/PsychOpenGL/PsychGLSLShaders/BasicGaborShader.vert.txt ...
>> contrastThresholds
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PTB-INFO: Timestamps returned by Screen('Flip') will be therefore less robust and accurate.
PTB-INFO: Measured monitor refresh interval from VBLsync = 16.647289 ms [60.069839 Hz]. (50 valid samples taken, stddev=0.796134 ms.)
PTB-INFO: Small deviations between reported values are normal and no reason to worry.
PTB-WARNING:
=====
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Screen Test: contrast 3.0%, min 184, 188, delta 4

Screen Test: contrast 3.2%, min 184, 189, delta 5

Screen Test: contrast 3.4%, min 183, 189, delta 6

Screen Test: contrast 4.5%, min 183, 190, delta 7

Screen Test: contrast 5.2%, min 182, 190, delta 8

Screen Test: contrast 6.0%, min 181, 191, delta 10

Screen Test: contrast 5.8%, min 182, 191, delta 9

Screen Test: contrast 6.2%, min 181, 191, delta 10

Screen Test: contrast 7.1%, min 180, 191, delta 11

Screen Test: contrast 8.4%, min 179, 192, delta 13

Screen Test: contrast 9.6%, min 178, 193, delta 15

Screen Test: contrast 12.1%, min 176, 195, delta 19

Screen Test: contrast 12.0%, min 177, 195, delta 18

Screen Test: contrast 12.6%, min 176, 196, delta 20

Screen Test: contrast 13.3%, min 175, 196, delta 21

Screen Test: contrast 14.0%, min 175, 197, delta 22

Screen Test: contrast 18.0%, min 171, 199, delta 28

Screen Test: contrast 23.8%, min 166, 204, delta 38

Screen Test: contrast 24.0%, min 166, 204, delta 38

Screen Test: contrast 24.9%, min 165, 204, delta 39

Screen Test: contrast 26.0%, min 164, 205, delta 41

Screen Test: contrast 27.1%, min 163, 206, delta 43

Screen Test: contrast 35.7%, min 155, 212, delta 57

Screen Test: contrast 48.0%, min 143, 220, delta 77

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Screen Test: contrast 48.0%, min 143, 220, delta 77
Screen Test: contrast 49.5%, min 141, 221, delta 80
Screen Test: contrast 51.4%, min 139, 222, delta 83
Screen Test: contrast 55.0%, min 135, 224, delta 89
Screen Test: contrast 71.8%, min 114, 234, delta 120
Screen Test: contrast 96.1%, min 71, 248, delta 177
144      ctDrawStatusText(handles, 'idle');
```

INFO: PTB's Screen('Flip', 10) command seems to have missed the requested stimulus presentation deadline

INFO: a total of 25 times out of a total of 37 flips during this session.

INFO: This number is fairly accurate (and indicative of real timing problems in your own code or your system)

INFO: if you provided requested stimulus onset times with the 'when' argument of Screen('Flip', window [, when]);

INFO: If you called Screen('Flip', window); without the 'when' argument, this count is more of a 'mild' indicator

INFO: of timing behaviour than a hard reliable measurement. Large numbers may indicate problems and should at least

INFO: deserve your closer attention. Cfe. 'help SyncTrouble', the FAQ section at [www.psychtoolbox.org](http://www.psychtoolbox.org) and the

INFO: examples in the PDF presentation in PsychDocumentation/Psychtoolbox3-Slides.pdf for more info and timing tips.

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