DialysisStimuli

A Whisker client

by Rudolf Cardinal

www.whiskercontrol.com

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DialysisStimuli

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Foreword

WARNING

**Whisker is a system designed
for research purposes only,
and should never be used to
control medical apparatus or
other devices that could
endanger human life.**

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1 DialysisStimuli

1.1 About DialysisStimuli

Purpose

Noncontingent presentation of stimuli for a dialysis experiment.
Console-mode client.
Written for Rutsuko Ito, 1999.

Software requirements

Requires Whisker v2.0 or greater.

Data storage

None.

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1.2 Task details

As the code stands, DialysisStimuli runs through the following sequence:

1. Houselight/CS light/clicker off.
2. Waits 2 min.
3. Presents 5 on/off cycles of either clicker (10-Hz clicking, on for 10s, off for 40s) or light (15s on, 35s off) stimulus, separated by 6-min periods of darkness and nothing-ness.
4. Waits 6 min.
5. Repeat steps 2-4 twice more for a total of 3 presentations of the same stimulus.
6. Repeat steps 2-5 for the other stimulus.

You can choose whether to use the clicker or light first, and which light to use.
No data is recorded.

While the task is running it looks like this:

1.3   Required devices

The program requires to claim devices in groups named **box0, box1, box2…** with device names as follows:

```
// Names of lines the program expects to be able to claim
HOUSELIGHT  // output
LEFTLIGHT   // output
RIGHTLIGHT  // output
CLICKER     // output


// Aliases used while the program is in full flight, which it therefore expects
not to be present on the server:
CSLIGHT
```

Please ensure that devices named 'HOUSELIGHT', 'LEFTLIGHT', etc. are available and listed in the device definition file in use by the server. An excerpt from an appropriate device definition file is given below:

```
# Box 0 definition

line      0         box0    NOSEPOKE
line      1         box0    LEFTLEVER
line      2         box0    RIGHTLEVER
line      3         box0    LOCOBEAM_FRONT
```

```
line        4           box0    LOCOBEAM_MIDDLE
line        5           box0    LOCOBEAM_REAR

line        24          box0    HOUSELIGHT
line        25          box0    LEFTLIGHT
line        26          box0    RIGHTLIGHT
line        27          box0    TRAYLIGHT
line        28          box0    PUMP
line        29          box0    CLICKER
line        30          box0    LEFTLEVERCONTROL
line        31          box0    RIGHTLEVERCONTROL

# Box 1 definition

line        6           box1    NOSEPOKE
line        7           box1    LEFTLEVER
line        8           box1    RIGHTLEVER
line        9           box1    LOCOBEAM_FRONT
line        10          box1    LOCOBEAM_MIDDLE
line        11          box1    LOCOBEAM_REAR

line        32          box1    HOUSELIGHT
line        33          box1    LEFTLIGHT
line        34          box1    RIGHTLIGHT
line        35          box1    TRAYLIGHT
line        36          box1    PUMP
line        37          box1    CLICKER
line        38          box1    LEFTLEVERCONTROL
line        39          box1    RIGHTLEVERCONTROL

# ... etc.
```

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