**实验说明**

【实验目的】 本实验是为了检测【可变刷新率显示器产生的闪烁】对不同观察者的可见性。

【实验设置说明】

1. 本实验会关闭所有灯光，仅仅保留显示器和键盘
2. 要求观察者将头部固定，直视屏幕中心
3. 本实验的可视框大小、明暗、闪烁频率会发生变化，请保持眼睛注视屏幕中心的光点

【实验流程】

1. 实验分为20个block, 每个block的开始阶段会出现“滴”的响声。
2. 每个block开始阶段会呈现持续的颜色, 请在确认眼睛适应好当前的光强后点击“Enter”
3. 点击完成后会立马出现第二次“滴”的响声, 然后出现一个显示可变刷新率闪烁片段的框。
4. 观察者的任务是使用键盘调整显示的光强，直至自己恰好刚刚能够察觉到闪烁（注意：光强越低越容易观察到闪烁）。光强的调节方式是：shift+↑键-快速上调光强，shift+↓键-快速下调光强，↑-慢速上调光强，↓-慢速下调光强。
5. 观察者可以使用Ctrl键检查refrence - 没有Flicker的状态。
6. 观察者认为已经调整到恰好刚刚能够察觉到闪烁的光强，请点击空格键确认。
7. 如果选择出现错误,请在下一个block的开始阶段点击“Backspace”, 上一段实验将会重新展示.
8. 重复以上过程(20次). 感谢您的参与.

**Experimental Instructions**

**【Experiment Purpose】**

This experiment aims to assess the visibility of flicker generated by a variable refresh rate display for different observers.

**【Experimental Setup】**

1. This experiment will turn off all lights, leaving only the display and keyboard.
2. Observers are required to keep their heads fixed and gaze directly at the center of the screen.
3. The visual frame size, luminance, and flicker frequency will vary in this experiment. Please keep your eyes focused on the center spot on the screen.

**【Experimental Procedure】**

1. The experiment is divided into 420 blocks. At the beginning of each block, there will be a sound signal "drip."
2. At the start of each block, a continuous color will be presented. Please click "Enter" after ensuring that your eyes have adapted to the current light intensity.
3. Immediately after clicking, the second "drip" sound will occur, followed by a box displaying variable refresh rate flicker.
4. The observer's task is to use the keyboard to adjust the display's brightness until they can just perceive the flicker (Note: Lower brightness makes it easier to observe flicker). Adjustment keys are as follows:
   1. W - Increase brightness quickly,
   2. S - Decrease brightness quickly,
   3. ↑ - Increase brightness slowly,
   4. ↓ - Decrease brightness slowly.
5. If the observer believes they have adjusted to the brightness just enough to perceive the flicker, please press the Y key to confirm.
6. In case of an error, click "Backspace" at the beginning of the next block; the previous part of the experiment will be replayed.
7. Repeat the above process (420 times). Thank you for your participation.