樹莓派魔鏡,有點酷!

嵌入式大雜燴 今天



來源:網絡

一、軟件介紹

MagicMirror²是一個開源模塊化智能鏡子的系統(樹莓派魔鏡),它能構建你的智能鏡子,成為你鏡子的大腦,使你的鏡子智能地顯示時間、日曆、天氣、新聞、語音交互等。它專注於模塊化插件系統,並使用 Electron 作為應用包裝,因此,不再需要安裝Web服務器或瀏覽器。

二、項目地址

https://magicmirror.builders/

三、特性

- 開源
- 模塊: MagicMirror² 的核心包含一個強大的API, 允許第三方開發人員構建其 他的模塊,可以使用已有模塊或者自行開發其他模塊
- 社區廣

四、安裝

感謝@ Mic hMich優秀的開源代碼,安裝MagicMirror是如此的方便簡單。

步驟1

設置完樹莓派,升級完系統並且重啟後,打開終端輸入:

bash -c "\$(curl -sL https://raw.githubusercontent.com/MichMich/MagicMirror/master/installers/raspberry.sh)"

然後你將看到下面的界面, 開始安裝。

步驟2

针对MagicMirror还需要进行一些设置。

首先设置屏幕垂直显示。你需要编辑一个boot文件(注意:垂直显示非必须,如果你是要宽显示或者作为风景展示则不必要)

输入 sudo nano /boot/config.txt ,添加如下内容,在哪里添加无所谓:

Rotate display vertically
display_rotate=1

写完之后,按 CTRL-X,YES确认保存。

```
File Edit Tabs Help

GNU nano 2.2.6

File: /boot/config.txt

# For more options and information see
# http://www.raspberrypi.org/documentation/configuration/config-txt.md
# Some settings may impact device functionality. See link above for details

# Rotate display vertically
display_rotate=1

# uncomment if you get no picture on HDMI for a default "safe" mode
# hdmi_safe=1

# uncomment this if your display has a black border of unused pixels visible
# and your display can output without overscan
# disable_overscan=1

# uncomment the following to adjust overscan. Use positive numbers if console
# goes off screen, and negative if there is too much border
# voverscan_left=16
# overscan_right=16
# overscan_bottom=16

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```

步骤3

禁止屏保和锁屏。需要在两个地方进行设置,首先在自动开机文件里:

sudo nano /etc/xdg/lxsession/LXDE-pi/autostart

在文件结尾处添加如下,保存:

@xset s noblank
@xset s off
@xset -dpms



然后,在终端中输入

sudo nano /etc/lightdm/lightdm.conf

往下滚动,找到 [SeatDefaults] 部分,找到 xserver-command ,将其修改为 xserver-command=X -s 0 -dpms

写完之后,按 CTRL-X,YES确认保存。

```
autologin-guest = True to log in as guest by default
autologin-user = User to log in with by default (overrides autologin-guest)
autologin-user-timeout = Number of seconds to wait before loading default user
 autologin-session = Session to load for automatic login (overrides user-session)
autologin-in-background = True if autologin session should not be immediately activated
  exit-on-failure = True if the daemon should exit if this seat fails
 [SeatDefaults]
#type=xlocal
#xdg-seat=seat0
#pam-service=lightdm
#pam-autologin-service=lightdm-autologin
#pam-greeter-service=lightdm<u>-g</u>reeter
xserver-command=X -s 0 -dpms
#xserver-layout=
#xserver-config=
#xserver-allow-tcp=false
#xserver-share=true
#xserver-hostname=
#xserver-display-number=
#xdmcp-manager=
#xdmcp-port=177
#xdmcp-key=
                                                                                                                                  https://blog.csdn.net/kaspar1992
#unity-compositor-command=unity-system-compositor
```

(提示:如果你的系统是ubuntu-mate,上述的设置是不正确的。你需要在控制中心-电源首选项中将操作和显示都设置为**从不**)

步骤4

树莓派系统默认会将不活跃的模块关闭,包括WIFI模块,这样的话会偶尔导致MagicMirror收不到例如新闻、天气等的更新。 我们可以在接口文件中关闭省电模式:

sudo nano /etc/network/interfaces

找到 wlano, 在其下面添加 wireless-power off,添加完成后保存,重启系统 sudo reboot。

```
# Please note that this file is written to be used with dhcpcd
# For static IP, consult /etc/dhcpcd.conf and 'man dhcpcd.conf'

# Include files from /etc/network/interfaces.d:
source-directory /etc/network/interfaces.d

auto lo
iface lo inet loopback

iface eth0 inet manual

allow-hotplug wlan0
iface wlan0 inet manual
    wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
wireless-power off

allow-hotplug wlan1
iface wlan1 inet manual
    wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf

wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
```

重启之后打开终端,输入 iwconfig ,你会发现省电模式已经关闭了。

```
File Edit Tabs Help

pi@magicpi:~ $ iwconfig
wlan0

IEEE 802.11bgn ESSID:"

Mode:Managed Frequency:2.447 GHz Access Point:
Bit Rate=72.2 Mb/s Tx-Power=31 dBm
Retry short limit: 7 RTS thr:off Fragment thr:off
Power Management:off
Link Quality=70/70 Signal level=-36 dBm
Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0
Tx excessive retries:14 Invalid misc:0 Missed beacon:0

lo no wireless extensions.
eth0 no wireless extensions.

pi@magicpi:~ $ ■

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```

(提示:上述设置不适用于ubuntu-mate系统。具体解决办法如下图。)

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How to turn off Wireless power management permanently

Open this file with your text editor, let's use nano for example:

```
sudo vim /etc/NetworkManager/conf.d/default-wifi-powersave-on.conf
```

By default there is

```
wifi.powersave = 3
```

Just change it to a value of 2.

The change will be active upon the next reboot.

The values for the powersave field are:

```
NM_SETTING_WIRELESS_POWERSAVE_DEFAULT (0): use the default value

NM_SETTING_WIRELESS_POWERSAVE_IGNORE (1): don't touch existing setting

NM_SETTING_WIRELESS_POWERSAVE_DISABLE (2): disable powersave

NM_SETTING_WIRELESS_POWERSAVE_ENABLE (3): enable powersave

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```

到这一步,你已经完成了MagicMirror的基本设置。

接下来创建一个可用的配置文件,以便你能够进行测试。在MagicMirror的 config 文件夹内:

```
pi@magicpi:~ $ cd MagicMirror/config
pi@magicpi:~/MagicMirror/config $ cp config.js.sample config.js
```

试着开启MagicMirror:

```
pi@magicpi:~/MagicMirror/config $ cd $HOME/MagicMirror
pi@magicpi:~/MagicMirror $ npm start
```

如果顺利的话,你的显示器将会显示MagicMirror的界面。天气模块可能提示你,没有有效的APPID,不过简单设置之后将会看起来如下图:

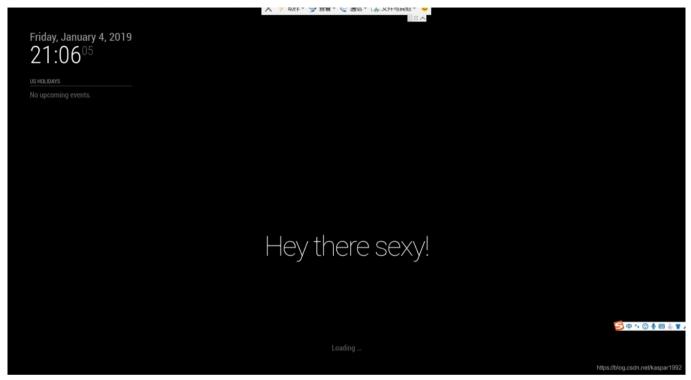


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New York Times, 5 hours ago:
Blaming Muslims After Attack, Donald Trump Tosses Pluralism Aside

最后根据以上步骤,完成自己的魔镜,如下图所示。



完美! 你的魔镜树莓派顺利诞生! 恭喜~

参考资料:

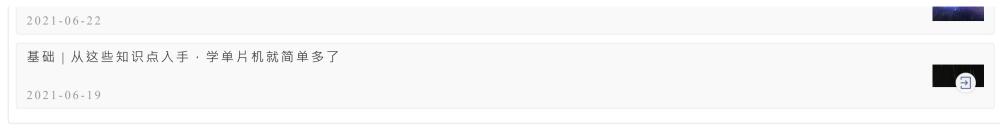
https://my.oschina.net/u/4518087/blog/4758744

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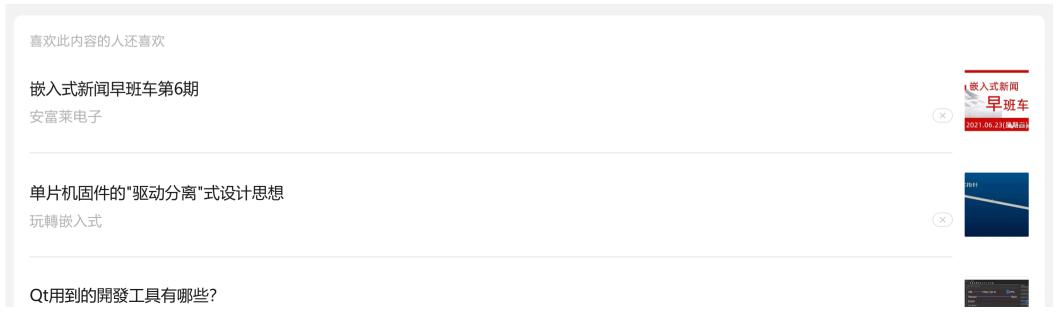






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