Infoscreen RaspberryPi documentation

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1 Description

This is short documentation of RaspberryPi's settings and installed packages for Infoscreen which is running at my home. Infoscreen shows railway station train schedule in real time

2 IP addresses

You need to set up apache for your RaspberryPi. Usually local ip is something likes this: 192.168.1.101 or 192.168.1.102.

Mine is 192.168.1.106

3 Installed packages

```
cec-utils
```

This package is to control CEC (Consumer Electronic Control) supported TV via RaspberryPi.

```
unclutter -- used to remove mouse cursor
xautomation -- for scripts handling
iceweasel -- a light browser
```

4   Config files

4.1   Crontab

To edit crontab, write **crontab -e**.

```
0 2 * * * /home/pi/toggleMonitor.sh off >/dev/null 2>&1
0 6 * * * /home/pi/toggleMonitor.sh on >/dev/null 2>&1

0 3 * * * sudo kill $ (pgrep iceweasel)
5 3 * * * /home/pi/fullscreen.sh
15 22 * * 0-4 /home/pi/monitor_off.sh >/dev/null 2>&1
45 6 * * 0-4 /home/pi/monitor_on.sh >/dev/null 2>&1
0 0 * * 5-6 /home/pi/monitor_off.sh >/dev/null 2>&1
0 8 * * 5-6 /home/pi/monitor_on.sh >/dev/null 2>&1
```

4.2   Autostart

In NOOBS autostart file is located at $\sim /.config/lxsession/LXDE - pi$ In Rasbian Pixel file is located at $\sim /.config/lxsession/LXDE/autostart$

```
@lxpanel --profile LXDE-pi
@pcmanfm --desktop --profile LXDE-pi
@xscreensaver -no-splash
@point-rpi
@xset s off
@xset dpms
@sudo xset s noblank
@unclutter
@/home/pi/fullscreen.sh
```

4.3   Fullscreen script

```
sudo rm -r ~/.cache/mozilla/firefox/*.default/*
iceweasel localhost --display=:0 &
sleep 20s;
xte "key F11" -x:0
```

4.4   Script to toggle TV on/off

I used separate monitor_on.sh and monitor_off.sh in my implementation. You can use those too, or only this one script that is shown under

```
#!/bin/bash -e

CMD="$1"

function main {
    if [ "$CMD" == "on" ]; then
echo "on 0" | cec-client -s
    elif [ "$CMD" == "off" ]; then
echo "standby 0" | cec-client -s
    fi
    exit 0
}

main
```