

# 太阳、月亮、季节与潮汐

## 【操作步骤】

1. 配置太阳、月亮、季节
2. 太阳的信息解读
3. 月亮与季节的信息解读
4. 配置潮汐

## 【参考】

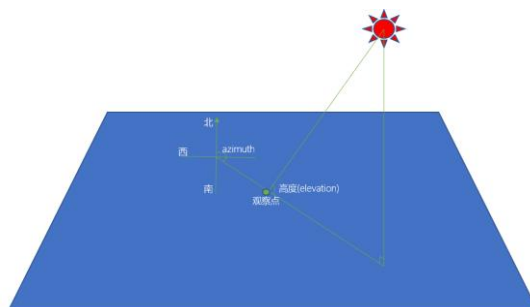
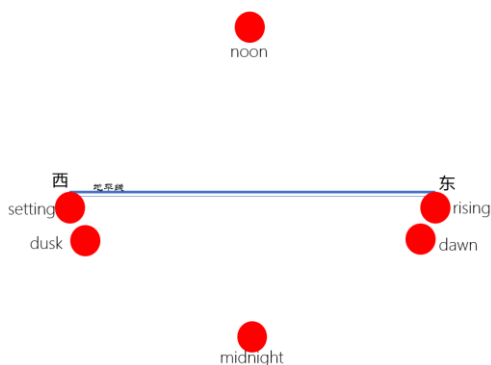
### ● 配置

```
sun:  
sensor:  
  - platform: moon  
  - platform: season  
  - platform: worldtidesinfo  
    api_key: 7da8ea6b-a34a-4da6-a84b-f894d756dbe3
```

### ● worldtides 网站

<https://www.worldtides.info>

### ● 太阳信息示意图



### ● 月亮状态

		<b>New Moon</b> - The Moon's unilluminated side is facing the Earth. The Moon is not visible (except during a solar eclipse).
朔		<b>Waxing Crescent</b> - The Moon appears to be partly but less than one-half illuminated by direct sunlight. The fraction of the Moon's disk that is illuminated is increasing.
上弦		<b>First Quarter</b> - One-half of the Moon appears to be illuminated by direct sunlight. The fraction of the Moon's disk that is illuminated is increasing.
		<b>Waxing Gibbous</b> - The Moon appears to be more than one-half but not fully illuminated by direct sunlight. The fraction of the Moon's disk that is illuminated is increasing.
望		<b>Full Moon</b> - The Moon's illuminated side is facing the Earth. The Moon appears to be completely illuminated by direct sunlight.
		<b>Waning Gibbous</b> - The Moon appears to be more than one-half but not fully illuminated by direct sunlight. The fraction of the Moon's disk that is illuminated is decreasing.
下弦		<b>Last Quarter</b> - One-half of the Moon appears to be illuminated by direct sunlight. The fraction of the Moon's disk that is illuminated is decreasing.
晦		<b>Waning Crescent</b> - The Moon appears to be partly but less than one-half illuminated by direct sunlight. The fraction of the Moon's disk that is illuminated is decreasing.

## 天气与预报——yr、DarkSky、……

### 【操作步骤】

1. 配置 yr（在最新的 HomeAssistant 版本中已经去除了 yr 组件）
2. 获得 DarkSky 的 API Key
3. 解读 DarkSky 配置
4. 使用 packages 配置 DarkSky
5. 其它天气组件

### 【参考】

- yr 天气的配置介绍  
<https://www.home-assistant.io/components/sensor.yr/>
- DarkSky 天气域配置介绍  
<https://www.home-assistant.io/components/weather.darksky/>
- DarkSky 传感器域配置介绍  
<https://www.home-assistant.io/components/sensor.darksky/>
- DarkSky 网站  
<https://darksky.net/>
- DarkSky 的配置 example\_7\_2\_1.yaml  

```
# example_7_2_1.yaml
sensor:
  - platform: darksky
    api_key: d9f896cba3d240816d83bd1dbcb388a0
    forecast: 1
    language: zh
    monitored_conditions:
      - summary
      - temperature
      - humidity
      - precip_probability

weather:
  - platform: darksky
    api_key: d9f896cba3d240816d83bd1dbcb388a0
    mode: hourly

group:
  weather_sensor_darksky:
    name: DarkSky 天气传感器
    entities: sensor.dark_sky_summary, sensor.dark_sky_temperature, sensor.dark_sky_humidity,
    sensor.dark_sky_precip_probability

darksky:
  name: DarkSky
  entities: group.weather_sensor_darksky, weather.dark_sky
  view: yes
```
- HomeAssistant 中天气相关组件介绍  
<https://www.home-assistant.io/components/#weather>

## 红外遥控——博联 RM 系列产品

### 【硬件准备】

- 博联 RM 系列产品（任选一）



### 【操作步骤】

1. 接入博联 RM 红外转发设备
2. 学习红外码
3. 配置红外码开关设备
4. 脚本调用红外发送服务

### 【参考】

- 博联官网  
<http://www.broadlink.com.cn/>
- 博联 RM Switch 组件  
<https://www.home-assistant.io/components/switch.broadlink/>
- 视频中演示的配置样例

switch:

- platform: broadlink

host: 192.168.31.177

mac: '34:EA:34:40:79:3A'

switches:

tv\_power:

friendly\_name: "电视开关"

command\_on: 'xxxxxxxxxxxxxx'

command\_off: 'xxxxxxxxxxxxxx'

- 视频中演示的脚本样例

tv\_input\_select:

alias: 切换电视输入源

sequence:

- service: switch.broadlink\_send\_packet\_192\_168\_31\_177

data:

packet:

- "xxxxxxxxxxxxxxxxxx"

## 红外遥控——小米万能遥控器

### 【硬件准备】

- 小米万能遥控器



### 【操作步骤】

1. 安装 miio，获得小米万能遥控器的 token
2. 接入小米万能遥控器设备
3. 学习红外码
4. 配置对应命令与脚本

### 【参考】

- 小米万能遥控器组件

[https://www.home-assistant.io/components/remote.xiaomi\\_miio/](https://www.home-assistant.io/components/remote.xiaomi_miio/)

- 视频中演示的配置样例

# example\_7\_4\_1.yaml

remote:

```
- platform: xiaomi_miio
  name: xiaomi_rm
  host: x.x.x.x
  token: xxxxxxxxxxxxxxxxxxxx
  commands:
    tv_power:
      command:
        - raw:xxxxxxxxxxxxxxxxxxxxxx
    tv_input:
      command: raw:xxxxxxxxxxxxxxxxxx
```

script:

```
tv_power:
  alias: 电视开关
  sequence:
    - service: remote.send_command
      entity_id: 'remote.xiaomi_rm'
      data:
        command: 'tv_power'
tv_input:
  alias: 输入源切换
  sequence:
    - service: remote.send_command
      entity_id: 'remote.xiaomi_rm'
      data:
        command:
          - 'tv_input'
```

# 入侵检测——FolderWatcher

## 【操作步骤】

1. folder\_watcher 与对应自动化配置解释
2. 上传 packages 配置文件，重启 homeassistant
3. 增加 whitelist\_external\_dirs 配置
4. 实验配置效果

## 【参考】

- folder\_watcher 组件  
[https://www.home-assistant.io/components/folder\\_watcher/](https://www.home-assistant.io/components/folder_watcher/)

- 配置样例 example\_7\_5\_1.yaml

```
# example_7_5_1.yaml
```

```
folder_watcher:
```

```
- folder: /home/pi
```

```
  patterns:
```

```
    - '*.yaml'
```

```
    - '*.txt'
```

```
automation:
```

```
  alias: Files WatchDog
```

```
  trigger:
```

```
    platform: event
```

```
    event_type: folder_watcher
```

```
  action:
```

```
    service: notify.zhujisheng_gmail
```

```
    data_template:
```

```
      title: 文件系统被修改!
```

```
      message: "{{trigger.event.data.file}} in {{trigger.event.data.folder}} has been {{ trigger.event.data.event_type }}"
```