Plyer Documentation

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Plyer is a Python library for accessing features of your hardware / platforms.

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CHAPTER 2

Facades

Interface of all the features available.

class plyer.facades.**Accelerometer**
Accelerometer facade.

acceleration
Property that returns values of the current acceleration sensors, as a (x, y, z) tuple. Returns (None, None, None) if no data is currently available.

disable()
Disable the accelerometer sensor.

enable()
Activate the accelerometer sensor. Throws an error if the hardware is not available or not implemented on.

class plyer.facades.**Audio**(*file_path*)
Audio facade.

play()
Play current recording.

start()
Start record.

stop()
Stop record.

class plyer.facades.**Barometer**
Barometer facade.

Barometer sensor is used to measure the ambient air pressure in hPa.

With method *enable* you can turn on pressure sensor and 'disable' method stops the sensor.

Use property *pressure* to get current air pressure in hPa.

New in version 1.2.5.

disable()
Disable barometer sensor.

enable()
Enable barometer sensor.

pressure
Current air pressure in hPa.

class plyer.facades.**Battery**
Battery info facade.

status

Property that contains a dict with the following fields:

- **isCharging** *(bool)*: Battery is charging
- **percentage** *(float)*: Battery charge remaining

> **Warning:** If any of the fields is not readable, it is set as None.

class plyer.facades.**Call**
Call facade.

dialcall()
Opens dialing interface.

makecall(*tel*)
Make calls using your device.

Parameters **tel** (*number*) – The reciever

class plyer.facades.**Camera**
Camera facade.

take_picture(*filename*, *on_complete*)
Ask the OS to capture a picture, and store it at filename.

When the capture is done, on_complete will be called with the filename as an argument. If the callback returns True, the filename will be unlinked.

Parameters

- **filename** (*str*) – Name of the image file
- **on_complete** (*callable*) – Callback that will be called when the operation is done

take_video(*filename*, *on_complete*)
Ask the OS to capture a video, and store it at filename.

When the capture is done, on_complete will be called with the filename as an argument. If the callback returns True, the filename will be unlinked.

Parameters

- **filename** (*str*) – Name of the video file
- **on_complete** (*callable*) – Callback that will be called when the operation is done

class plyer.facades.**Compass**
Compass facade.

New in version 1.2.0.

disable()
Disable the compass sensor.

enable()
Activate the compass sensor.

orientation
Property that returns values of the current compass (magnetic field) sensors, as a (x, y, z) tuple. Returns (None, None, None) if no data is currently available.

class plyer.facades.**Email**
Email facade.

send(*recipient=None*, *subject=None*, *text=None*, *create_chooser=None*)
Open an email client message send window, prepopulated with the given arguments.

Parameters

- **recipient** – Recipient of the message (str)
- **subject** – Subject of the message (str)
- **text** – Main body of the message (str)
- **create_chooser** – Whether to display a program chooser to handle the message (bool)

Note: create_chooser is only supported on Android

class plyer.facades.**FileChooser**
File Chooser facade.

choose_dir(**args*, ***kwargs*)
Open the directory chooser. Note that on Windows this is very limited. Consider writing your own chooser if you target that platform and are planning on using unsupported features.

open_file(**args*, ***kwargs*)
Open the file chooser in "open" mode.

save_file(**args*, ***kwargs*)
Open the file chooser in "save" mode. Confirmation will be asked when a file with the same name already exists.

class plyer.facades.**GPS**
GPS facade.

configure(*on_location*, *on_status=None*)
Configure the GPS object. This method should be called before *start()*.

Parameters

- **on_location**(*callable, multiples keys/value will be passed.*) – Function to call when receiving a new location
- **on_status** (*callable, args are "message-type", "status"*) – Function to call when a status message is received

Warning: The *on_location* and *on_status* callables might be called from another thread than the thread used for creating the GPS object.

start (*minTime=1000*, *minDistance=1*)
Start the GPS location updates. Expects 2 parameters:

minTime: milliseconds. (float) minDistance: meters. (float)

stop()
Stop the GPS location updates.

class plyer.facades.**Gravity**
Gravity facade.

New in version 1.2.5.

disable()
Disable the gravity sensor.

enable()
Activate the gravity sensor. Throws an error if the hardware is not available or not implemented on.

gravity
Property that returns values of the current gravity force as a (x, y, z) tuple. Returns (None, None, None) if no data is currently available.

class plyer.facades.**Gyroscope**
Gyroscope facade.

New in version 1.2.0.

disable()
Disable the Gyroscope sensor.

enable()
Activate the Gyroscope sensor.

orientation
Property that returns values of the current Gyroscope sensors, as a (x, y, z) tuple. Returns (None, None, None) if no data is currently available.

class plyer.facades.**IrBlaster**
Infrared blaster facade.

exists()
Check if the device has an infrared emitter.

frequencies

Property which contains a list of frequency ranges supported by the device in the form:

[(from1, to1), (from2, to2), ... (fromN, toN)]

static microseconds_to_periods (*frequency*, *pattern*)
Convert a pattern from microseconds to period counts.

static periods_to_microseconds (*frequency*, *pattern*)
Convert a pattern from period counts to microseconds.

transmit (*frequency*, *pattern*, *mode='period'*)
Transmit an IR sequence.

Parameters

***frequency*: int** Carrier frequency for the IR transmission.

***pattern*: list[int]** Burst pair pattern to transmit.

***mode*: str, defaults to 'period'** Specifies the format of the pattern values. Can be 'period' or 'microseconds'.

class plyer.facades.**Light**
Light facade.

Light sensor measures the ambient light level(illumination) in lx. Common uses include controlling screen brightness.

With method *enable* you can turn on the sensor and *disable* method stops the sensor.

Use property *illumination* to get current illumination in lx.

New in version 1.2.5.

disable()
Disable light sensor.

enable()
Enable light sensor.

illumination
Current illumination in lx.

class plyer.facades.**Orientation**
Orientation facade.

set_landscape(*reverse=False*)
Rotate the app to a landscape orientation.

Parameters **reverse** – If True, uses the opposite of the natural orientation.

set_portrait(*reverse=False*)
Rotate the app to a portrait orientation.

Parameters **reverse** – If True, uses the opposite of the natural orientation.

set_sensor(*mode='any'*)
Rotate freely following sensor information from the device.

Parameters **mode** – The rotation mode, should be one of 'any' (rotate to any orientation), 'landscape' (choose nearest landscape mode) or 'portrait' (choose nearest portrait mode). Defaults to 'any'.

class plyer.facades.**Notification**
Notification facade.

notify(*title=''*, *message=''*, *app_name=''*, *app_icon=''*, *timeout=10*, *ticker=''*)
Send a notification.

Parameters

- **title** (*str*) – Title of the notification
- **message** (*str*) – Message of the notification
- **app_name** (*str*) – Name of the app launching this notification
- **app_icon** (*str*) – Icon to be displayed along with the message
- **timeout** (*int*) – time to display the message for, defaults to 10
- **ticker** (*str*) – text to display on status bar as the notification arrives

class plyer.facades.**Proximity**
Proximity facade.

The proximity sensor is commonly used to determine distance whether phone is close to your head. Commonly is used when you have a call and you stick your phone with your head. Then screen of phone turns off.

Use method *enable* to turn on proximity sensor and method *disable* for turn off.

To check if some object (or your head) is near sensor check values from property *proximity*. It returns *True* when object is close.

New in version 1.2.5.

disable()
Disable the proximity sensor.

enable()
Enable the proximity sensor.

proximity
Return True or False depending if there is an object or not.

Returns True if there is an object. Otherwise False.

class plyer.facades.**Sms**
Sms facade.

send(*recipient*, *message*)
Send SMS or open SMS interface.

Parameters

- **recipient** (*number*) – The reveiver
- **message** (*str*) – the message

class plyer.facades.**TTS**
TextToSpeech facade.

speak(*message=''*)
Use text to speech capabilities to speak the message.

Parameters **message** (*str*) – What to speak

class plyer.facades.**UniqueID**
UniqueID facade.

id
Property that returns the unique id of the platform.

class plyer.facades.**Vibrator**
Vibration facade.

cancel()
Cancels any current vibration, and stops the vibrator.

exists()
Check if the device has a vibrator. Returns True or False.

pattern(*pattern=(0, 1)*, *repeat=-1*)
Ask the vibrator to vibrate with the given pattern, with an optional repeat.

Parameters

- **pattern** – Pattern to vibrate with. Should be a list of times in seconds. The first number is how long to wait before vibrating, and subsequent numbers are times to vibrate and not vibrate alternately. Defaults to `[0, 1]`.
- **repeat** – Index at which to repeat the pattern. When the vibration pattern reaches this index, it will start again from the beginning. Defaults to `-1`, which means no repeat.

vibrate(*time=1*)
Ask the vibrator to vibrate for the given period.

Parameters **time** – Time to vibrate for, in seconds. Default is 1.

class plyer.facades.**Wifi**
Wifi Facade.

connect(*network*, *parameters*)
Method to connect to some network.

disconnect()
To disconnect from some network.

get_available_wifi()
Returns a list of all the available wifi.

get_network_info(*name*)
Return a dictionary of secified network.

is_enabled()
Returns *True'if the Wifi is enables else 'False*.

start_scanning()
Turn on scanning.

class plyer.facades.**Flash**
Flash facade.

off()
Deactiavte the flash

on()
Activate the flash

release()
Release any access to the Flash / Camera. Call this when you're done using the Flash. This will release the Camera, and stop any process.

Next call to *_on* will reactivate it.

class plyer.facades.**Temperature**
Temperature facade.

Temperature sensor is used to measure the ambient room temperature in degrees Celsius (°C) With method *enable* you can turn on temperature sensor and 'disable' method stops the sensor. Use property *temperature* to get ambient air temperature in degree C.

New in version 1.2.5.

disable()
Disable temperature sensor.

enable()
Enable temperature sensor.

temperature
Current air temperature in degree C.

class plyer.facades.**SpatialOrientation**
Spatial Orientation facade.

Computes the device's orientation based on the rotation matrix.

New in version 1.3.1.

disable_listener()
Disable the orientation sensor.

enable_listener()
Enable the orientation sensor.

orientation
Property that returns values of the current device orientation as a (azimuth, pitch, roll) tuple.

Azimuth, angle of rotation about the -z axis. This value represents the angle between the device's y axis and the magnetic north pole. The range of values is -π to π.

Pitch, angle of rotation about the x axis. This value represents the angle between a plane parallel to the device's screen and a plane parallel to the ground. The range of values is -π to π.

Roll, angle of rotation about the y axis. This value represents the angle between a plane perpendicular to the device's screen and a plane perpendicular to the ground. The range of values is -π/2 to π/2.

Returns (None, None, None) if no data is currently available.

CHAPTER 3

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