
steampak Documentation

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Contents

1	Description	3
2	Requirements	5
3	Optional dependencies	7
4	Table of Contents	9
4.1	Quickstart	9
4.2	Applications	10
4.3	Steam API (Main Entry Point)	15
4.4	Friends	17
4.5	Groups	18
4.6	Statistics	19
4.7	Users	20
4.8	Utils	22

<https://github.com/idlesign/steampak>

This software is not affiliated with Valve, Steam, or any of their partners.

CHAPTER 1

Description

Nicely packed tools to work with Steam APIs

- Steam library bindings for Python programming language.
It allows your game to interact with features offered by Steam client and Steam platform.
- Tools for querying Steam Web resources.
Allowing access to applications and market data from within your Python application.
- Command line utility.
To reach and analyse publicly available applications and market information.

CHAPTER 2

Requirements

- Python 2.7+, 3.3+
- Steam API library 1.32+ from Steamworks SDK
- Linux (not tested with libraries for OSX or Windows)

CHAPTER 3

Optional dependencies

To install all dependencies for *steampak*:

```
> pip install steampak[extra]
```

- *requests*, *BeautifulSoup* (for Web API related stuff)
- *click* (for CLI)

CHAPTER 4

Table of Contents

Quickstart

Steam API example

- First a path to steam library file. This library should be provided with your game. Library for various OS (*libsteam_api.so* or *steam_api.dll* or *libsteam_api.dylib*) is distributed with Steam SDK available for Steam partners at <https://partner.steamgames.com/>
- Second. Your need to know application (game) identifier provided by Steam. Pass it as a parameter or put *steam_appid.txt* file with that ID in your game folder.

Now you're ready to begin. API initialization is easy:

```
from steampak import SteamApi # Main API entry point.

LIBRARY_PATH = '/home/me/my_steam_game/libsteam_api.so'
APP_ID = 480 # We use `Spacewar` ID. (This game is provided with SDK).

api = SteamApi(LIBRARY_PATH, app_id=APP_ID)
```

After that you can access various API parts as *api* object attributes:

```
# Let's print some friend names:
for user in api.friends():
    print(user.name)

# Print out some info from utils:
print(api.utils.country_code)
print(api.utils.ui_language)

# Achievements progress:
for ach_name, ach in api.apps.current.achievements():
    print('%s (%s): %s' % (ach.title, ach_name, ach.get_unlock_info()))
```

```
# Installed applications titles:
for app_id, app in api.apps.installed():
    print('%s: %s' % (app_id, app.name))
```

When you're done, do not forget to shutdown API:

```
# Do not forget to shutdown when done:
api.shutdown()
```

Command line interface example

```
; Get prices and simple analysis for Half-Life 2 cards.
$ steampak app 220 get_card_prices --currency USD

; Get `Gordon Freeman` card price.
$ steampak market item 220 "Gordon Freeman" get_price --currency GBP

; Get games owned by `idlesign`.
$ steampak user idlesign get_games
```

Use `--help` command option to get more information on available commands.

Applications

class `steampak.libsteam.resources.apps.Applications`

Exposes methods to get applications data.

current = `<steampak.libsteam.resources.apps.CurrentApplication object>`

Interface to current application.

```
print(api.apps.current.language_current)
```

installed = `<steampak.libsteam.resources.apps.InstalledApplications object>`

Interface to installed applications.

```
for app_id, app in api.apps.installed():
    print('%s: %s' % (app_id, app.name))
```

Current Application

class `steampak.libsteam.resources.apps.CurrentApplication`

Exposes methods to get current application data.

Interface can be accessed through `api.apps.current`.

```
from steampak import SteamApi

api = SteamApi(LIBRARY_PATH, app_id=APP_ID)

print(api.apps.current.language_current)
```

achievements = <steampak.libsteam.resources.stats.CurrentApplicationAchievements object>
Current application (game) achievements.

```
for ach_name, ach in api.apps.current.achievements():
    print('%s: %s' % (ach_name, ach.title))
```

beta_name

Current beta branch name, 'public' is the default branch.

Return type str

build_id

Current application Build ID. This may change at any time based on backend updates.

Warning: Restricted interface can only be used by approved apps.

Return type int

dlds = <steampak.libsteam.resources.apps.CurrentApplicationDlds object>

Interface to DLCs of current application.

```
for dlc_id, dlc in api.apps.current.dlds():
    print('%s: %s' % (dlc_id, dlc.name))
```

install_dir

Returns application installation path.

Note: If fails this falls back to a restricted interface, which can only be used by approved apps.

Return type str

installed

True if app is installed (not necessarily owned).

Return type bool

language_available

List of available game languages.

E.g.: ['english', 'russian']

Return type list[str]

language_current

Current game language.

E.g.: english

Return type str

low_violence

True if the current app is low violence.

Return type bool

mark_corrupt (*only_files_missing=False*)

Signal Steam that game files seems corrupt or missing.

Parameters `only_files_missing` (*bool*) – Set it to True if only files are missing.

Return type `bool`

mode_cybercafe

True if the current app supports Valve Cybercafe Program.

Return type `bool`

mode_free_weekend

True if the user is subscribed to the current app through a free weekend.

Will return `False` for users who have a retail or other type of license.

Note: Before using, please ask your Valve technical contact how to package and secure your free weekend.

Return type `bool`

name

Application name, or None on error.

Warning: Restricted interface can only be used by approved apps.

Return type `str`

owned

True if user owns the current app.

Return type `bool`

owner

Owner user. If different from current user, app is borrowed.

Return type *User*

purchase_time

Date and time of app purchase.

Return type `datetime`

vac_banned

True if the current app is banned by BISVACBanned.

Return type `bool`

Application

`steampak.SteamApplication`

alias of `Application`

class `steampak.libsteam.resources.apps.Application` (*app_id*)

Exposes methods to get application data.

Aliased as `steampak.SteamApplication`.


```
from steampak import SteamApplication

# We use `Spacewar` app ID. (This game is provided with SDK).
my_app = SteamApplication(480)
```

Parameters `app_id` (*int* / *None*) – Application (game) ID.

build_id

Application Build ID. This may change at any time based on backend updates.

Warning: Restricted interface can only be used by approved apps.

Return type `int`

install_dir

Returns application installation path.

Note: If fails this falls back to a restricted interface, which can only be used by approved apps.

Return type `str`

installed

True if app is installed (not necessarily owned).

Return type `bool`

name

Application name, or None on error.

Warning: Restricted interface can only be used by approved apps.

Return type `str`

owned

True if user owns the current app.

Warning: Only use this member if you need to check ownership of a game related to yours, a demo for example.

Return type `bool`

purchase_time

Date and time of app purchase.

Return type `datetime`

DLC

`steampak.SteamDlc`
alias of `Dlc`

class `steampak.libsteam.resources.apps.Dlc(app_id)`
Exposes methods to get downloadable content (DLC) data.

Aliased as `steampak.SteamDlc`.

```
from steampak import SteamDlc

# We use `Spacewar` DLC app ID. (Spacewar game is provided with SDK).
my_dlc = SteamDlc(110902)
```

Current application DLCs are available through `CurrentApplication.dlcs`.

available
True if DLC is available.

Return type `bool`

build_id
Application Build ID. This may change at any time based on backend updates.

Warning: Restricted interface can only be used by approved apps.

Return type `int`

get_download_progress()
Returns tuple with download progress (for optional DLCs):

(bytes_downloaded, bytes_total)

Return type `tuple`

install()
Installs DLC (for optional DLCs).

install_dir
Returns application installation path.

Note: If fails this falls back to a restricted interface, which can only be used by approved apps.

Return type `str`

installed
True if the user owns the DLC & if the DLC is installed.

Return type `bool`

name
DLC name.

Return type `str`

owned

True if user owns the current app.

Warning: Only use this member if you need to check ownership of a game related to yours, a demo for example.

Return type bool

purchase_time

Date and time of app purchase.

Return type datetime

uninstall()

Uninstalls DLC (for optional DLCs).

Steam API (Main Entry Point)

steampak.SteamApi

alias of `Api`

class `steampak.libsteam.resources.main.Api` (*library_path*, *app_id=None*)

Main entry point of Steam API.

It is aliased as `steampak.SteamApi`.

```
from steampak import SteamApi

# Automatically initialize Steam API library if Steam client is running.
api = SteamApi(LIBRARY_PATH, app_id=APP_ID)

# Do not forget to shutdown when done:
api.shutdown()
```

Parameters

- **library_path** (*str*) – Full path to Steam library file. The library should be provided with your game. Library for various OS is distributed with Steam SDK available for Steam partners at <https://partner.steamgames.com/>
- **app_id** (*str/int*) – Application (game) identifier. Pass it as a parameter or put *steam_appid.txt* file with that ID in your game folder.

app_id

Application ID of the current process.

apps = <steampak.libsteam.resources.apps.Applications object>

Interface to applications (games).

```
for app_id, app in api.apps.installed():
    print('%s: %s' % (app_id, app.name))
```

current_user = <steampak.libsteam.resources.user.CurrentUser object>

Interface to current user.

```
print (api.current_user.name)
```

friends = <steampak.libsteam.resources.friends.Friends object>

Interface to friends of current user.

```
for user in api.friends():
    print (user.name)
```

groups = <steampak.libsteam.resources.groups.Groups object>

Interface to user groups.

```
for group in api.groups():
    print (group.name)
```

init (*app_id=None*)

Initializes Steam API library.

Parameters **app_id** (*str/int*) – Application ID.

Raises SteamApiStartupError

install_path

Returns library installation path.

Return type str

overlay = <steampak.libsteam.resources.overlay.Overlay object>

Interface to Steam overlay.

Overlay-related functions only work with OpenGL/D3D applications and only if Steam API is initialized before renderer device.

```
api.overlay.activate()
```

classmethod set_app_id (*app_id*)

Sets current application ID into environment.

Parameters **app_id** (*str/int*) – Your application ID.

shutdown ()

Shutowns API.

start_app ()

Detects if your executable was launched through the Steam client, and restarts your game through the client if necessary. The Steam client will be started if it is not running.

SDK Note: This function should be used only if you are using CEG or not using Steam's DRM. Once applied to your executable, Steam's DRM will handle restarting through Steam if necessary.

Return type bool

Returns

True if your executable was NOT launched through the Steam client. This function will then start your application through the client. Your current process should exit.

False if your executable was started through the Steam client or a steam_appid.txt file is present in your game's directory (for development). Your current process should continue.

steam_running

True if a local Steam client is running

Return type bool

utils = <steampak.libsteam.resources.utils.Utils object>

Interface to various utilities.

```
print (api.utils.ui_language)
```

Friends

class steampak.libsteam.resources.friends.Friends

Exposes methods to get friends related data.

Interface can be accessed through `api.friends()`:

```
for user in api.friends():
    print (user.name)
```

get_count (*flt=65535*)

Returns a number of current user friends, who meet a given criteria (filter).

Parameters *flt* (*int*) – Filter value from FriendFilter. Filters can be combined with |. Defaults to FriendFilter.ALL.

Return type int

tags = <steampak.libsteam.resources.friends.FriendTags object>

Interface to friend tags (categories).

```
for tag in api.friends.tags():
    print (tag.name)
```

Friend Tag

class steampak.libsteam.resources.friends.FriendTag (*tag_id*)

Exposes methods to get friend tag data.

Interface can be accessed through `api.friends.tags()`:

```
for tag in api.friends.tags():
    print (tag.name)
```

name

Name of a friend tag, or None on error.

Return type str

Friend Filter

class steampak.libsteam.resources.base.FriendFilter

Filters to be provided to functions returning friends. Can be combined using |.

ALL = 65535

BLOCKED = 1

CLAN_MEMBER = 8

```

FRIENDSHIP_REQUESTED = 2
FRIEND_OF_FRIEND = 64
HAS_PLAYED_WITH = 32
IGNORED = 512
IGNORED_FRIEND = 1024
IMMEDIATE = 4
NONE = 0
ON_GAME_SERVER = 16
REQUESTING_FRIENDSHIP = 128
REQUESTING_INFO = 256
SUGGESTED = 2048

```

Groups

class `steampak.libsteam.resources.groups.Groups`
 Exposes methods to get user groups data. Groups are also known as clans.
 Interface can be accessed through `api.groups()`:

```

for group in api.groups():
    print(group.name)

```

Group

class `steampak.libsteam.resources.groups.Group(group_id)`
 Exposes methods to get user groups (clans) data.
 Instances can be accessed through `api.groups()`:

```

for group in api.groups():
    print(group.name)

```

alias
 Alias (short name) of a group.

Return type str

name
 Name of a group.

Return type str

open_chat()
 Shows overlay with group chat window.

show_page()
 Shows overlay with group page.

stats

Basic group statistics.

Returned dict has the following keys:

‘online’ - users online count ‘ingame’ - users currently in game count ‘chatting’ - users chatting count

Returns dict

Statistics

Achievement

`steampak.SteamAchievement`

alias of Achievement

class `steampak.libsteam.resources.stats.Achievement` (*name*)

Exposes methods to get achievement data.

Aliased as `steampak.SteamAchievement`.

```
from steampak import SteamAchievement

print(SteamAchievement('some_achievement_name').title)
```

Instances can be accessed through `api.apps.current.achievements()`:

```
for ach_name, ach in api.apps.current.achievements():
    print('%s (%s)' % (ach.title, ach_name))
```

clear (*store=True*)

Clears (locks) the achievement.

Return type bool

description

Achievement description.

Return type str

get_unlock_info ()

Returns tuple of unlock data: (is_unlocked, unlocked_datetime).

Note: *unlocked_datetime* will be `None` if achievement if unlocked before 2009-12-01.

Return type tuple[bool, datetime]

global_unlock_percent

Global achievement unlock percent.

Return type float

hidden

`True` if achievement is hidden.

Return type bool

title

Achievement title.

Return type str

unlock (*store=True*)

Unlocks the achievement.

Parameters **store** (*bool*) – Whether to send data to server immediately (as to get overlay notification).

Return type bool

unlocked

True if achievement is unlocked.

Return type bool

Users

Current User

class steampak.libsteam.resources.user.**CurrentUser**

Exposed methods related to a current Steam client user.

Can be accessed through `api.current_user`:

```
user = api.current_user
```

behind_nat

True if this users looks like they are behind a NAT device. Only valid once the user has connected to steam (i.e a `SteamServersConnected_t` has been issued) and may not catch all forms of NAT.

Return type bool

level

Current user level (as shown on their profile).

Return type int

logged_in

True if the Steam client current has a live connection to the Steam servers.

If `False`, it means there is no active connection due to either a networking issue on the local machine, or the Steam server is down/busy.

The Steam client will automatically be trying to recreate the connection as often as possible.

Return type bool

User

class steampak.libsteam.resources.user.**User** (*user_id*)

Exposes methods to get user-related data.

Instance access example:

```
for user in api.friends():  
    print(user.name)
```


accept_friend_invite()

Shows a dialog to accept an incoming friend invite.

add_to_friends()

Shows a dialog to add user as a friend.

get_state(*as_str=False*)

Returns user state. See `UserState`.

Parameters *as_str* (*bool*) – Return human-friendly state name instead of an ID.

Return type `intlstr`

has_friends(*flt=65535*)

Indicated whether the user has friends, who meet the given criteria (filter).

Parameters *flt* (*int*) – Filter value from `FriendFilter`. Filters can be combined with `|`.

Return type `bool`

ignore_friend_invite()

Shows a dialog to ignore an incoming friend invite.

level

User level (as shown on profile).

Return type `int`

name

User name (the same name as on the users community profile page).

Return type `str`

name_history

A list of user names (as user can change those occasionally).

Return type `list`

nickname

A nickname the current user has set for the user, or `None` if not set.

Return type `str`

open_chat()

Shows overlay with chat window.

remove_from_friends()

Shows a dialog to remove user from friends.

show_achievements()

Shows overlay with user achievements.

show_profile()

Shows overlay with user profile.

show_stats()

Shows overlay with user stats.

state

User state. See `.get_state()`.

Return type `str`

User State

class `steampak.libsteam.resources.user.UserState`

User states enumeration.

AWAY = 3

BUSY = 2

OFFLINE = 0

ONLINE = 1

READY_TO_PLAY = 6

READY_TO_TRADE = 5

SNOOZE = 4

aliases = {0: 'offline', 1: 'online', 2: 'busy', 3: 'away', 4: 'snooze', 5: 'trade', 6: 'play'}

get_alias (*item_id*)

Returns item alias by ID.

Parameters *item_id* (*int*) – Item ID.

Return type str

Utils

class `steampak.libsteam.resources.utils.Utils`

Exposes various utility methods.

Interface can be accessed through `api.utils`:

```
print(api.utils.ui_language)
```

app_id

Application ID of the current process.

Return type int

battery_power

The amount of battery power left in the current system in % [0..100]. 255 for being on AC power.

Return type int

country_code

2 digit ISO 3166-1-alpha-2 format country code this client is running in (as looked up via an IP-to-location database)

E.g: RU.

Return type str

get_universe (*as_str=False*)

Returns universe the client is connected to. See `Universe`.

Parameters *as_str* (*bool*) – Return human-friendly universe name instead of an ID.

Return type int|str

ipc_call_count

The number of IPC calls made since the last time this function was called. Used for perf debugging so you can understand how many IPC calls your game makes per frame. Every IPC call is at minimum a thread context switch if not a process one so you want to rate control how often you do them.

Return type int

overlay_enabled

True if the overlay is running & the user can access it.

The overlay process could take a few seconds to start & hook the game process, so this function will initially return `False` while the overlay is loading.

Return type bool

seconds_app_active

Number seconds application is active.

Return type int

seconds_computer_active

Number seconds computer is active.

Return type int

server_time

Date and time on server.

Return type datetime

set_notification_position (*position*)

Sets the position where the overlay instance for the currently calling game should show notifications.

This position is per-game and if this function is called from outside of a game context it will do nothing.

Parameters **position** (*int*) – Position. See `NotificationPosition`.

ui_language

The language the steam client is running in.

E.g.: russian

Return type str

universe

Universe the client is connected to.

Return type str

vr_mode

True if Steam itself is running in VR mode.

Return type bool

Universe

```
class steampak.libsteam.resources.utils.Universe
```

BETA = 2

DEV = 4

INTERNAL = 3

INVALID = 0

MAX = 5

PUBLIC = 1

aliases = {0: 'invalid', 1: 'public', 2: 'beta', 3: 'internal', 4: 'dev', 5: 'max'}

get_alias (*item_id*)

Returns item alias by ID.

Parameters **item_id** (*int*) – Item ID.

Return type str

Notification Position

class steampak.libsteam.resources.utils.**NotificationPosition**

BOTTOM_LEFT = 2

BOTTOM_RIGHT = 3

TOP_LEFT = 0

TOP_RIGHT = 1

A

accept_friend_invite() (steampak.libsteam.resources.user.User method), 20

Achievement (class in steampak.libsteam.resources.stats), 19

achievements (steampak.libsteam.resources.apps.CurrentApplication attribute), 10

add_to_friends() (steampak.libsteam.resources.user.User method), 21

alias (steampak.libsteam.resources.groups.Group attribute), 18

aliases (steampak.libsteam.resources.user.UserState attribute), 22

aliases (steampak.libsteam.resources.utils.Universe attribute), 24

ALL (steampak.libsteam.resources.base.FriendFilter attribute), 17

Api (class in steampak.libsteam.resources.main), 15

app_id (steampak.libsteam.resources.main.Api attribute), 15

app_id (steampak.libsteam.resources.utils.Utils attribute), 22

Application (class in steampak.libsteam.resources.apps), 12

Applications (class in steampak.libsteam.resources.apps), 10

apps (steampak.libsteam.resources.main.Api attribute), 15

available (steampak.libsteam.resources.apps.Dlc attribute), 14

AWAY (steampak.libsteam.resources.user.UserState attribute), 22

B

battery_power (steampak.libsteam.resources.utils.Utils attribute), 22

behind_nat (steampak.libsteam.resources.user.CurrentUser attribute), 20

BETA (steampak.libsteam.resources.utils.Universe attribute), 23

beta_name (steampak.libsteam.resources.apps.CurrentApplication attribute), 11

BLOCKED (steampak.libsteam.resources.base.FriendFilter attribute), 17

BOTTOM_LEFT (steampak.libsteam.resources.utils.NotificationPosition attribute), 24

BOTTOM_RIGHT (steampak.libsteam.resources.utils.NotificationPosition attribute), 24

build_id (steampak.libsteam.resources.apps.Application attribute), 13

build_id (steampak.libsteam.resources.apps.CurrentApplication attribute), 11

build_id (steampak.libsteam.resources.apps.Dlc attribute), 14

BUSY (steampak.libsteam.resources.user.UserState attribute), 22

C

CLAN_MEMBER (steampak.libsteam.resources.base.FriendFilter attribute), 17

clear() (steampak.libsteam.resources.stats.Achievement method), 19

country_code (steampak.libsteam.resources.utils.Utils attribute), 22

current (steampak.libsteam.resources.apps.Applications attribute), 10

current_user (steampak.libsteam.resources.main.Api attribute), 15

CurrentApplication (class in steampak.libsteam.resources.apps), 10

CurrentUser (class in steampak.libsteam.resources.user), 20

D

description (steampak.libsteam.resources.stats.Achievement

attribute), 19
DEV (steampak.libsteam.resources.utils.Universe attribute), 23
Dlc (class in steampak.libsteam.resources.apps), 14
dlcs (steampak.libsteam.resources.apps.CurrentApplication attribute), 11

F

FRIEND_OF_FRIEND (steampak.libsteam.resources.base.FriendFilter attribute), 18
FriendFilter (class in steampak.libsteam.resources.base), 17
Friends (class in steampak.libsteam.resources.friends), 17
friends (steampak.libsteam.resources.main.Api attribute), 16
FRIENDSHIP_REQUESTED (steampak.libsteam.resources.base.FriendFilter attribute), 17
FriendTag (class in steampak.libsteam.resources.friends), 17

G

get_alias() (steampak.libsteam.resources.user.UserState method), 22
get_alias() (steampak.libsteam.resources.utils.Universe method), 24
get_count() (steampak.libsteam.resources.friends.Friends method), 17
get_download_progress() (steampak.libsteam.resources.apps.Dlc method), 14
get_state() (steampak.libsteam.resources.user.User method), 21
get_universe() (steampak.libsteam.resources.utils.Utils method), 22
get_unlock_info() (steampak.libsteam.resources.stats.Achievement method), 19
global_unlock_percent (steampak.libsteam.resources.stats.Achievement attribute), 19
Group (class in steampak.libsteam.resources.groups), 18
Groups (class in steampak.libsteam.resources.groups), 18
groups (steampak.libsteam.resources.main.Api attribute), 16

H

has_friends() (steampak.libsteam.resources.user.User method), 21
HAS_PLAYED_WITH (steampak.libsteam.resources.base.FriendFilter attribute), 18

hidden (steampak.libsteam.resources.stats.Achievement attribute), 19

I

ignore_friend_invite() (steampak.libsteam.resources.user.User method), 21
IGNORED (steampak.libsteam.resources.base.FriendFilter attribute), 18
IGNORED_FRIEND (steampak.libsteam.resources.base.FriendFilter attribute), 18
IMMEDIATE (steampak.libsteam.resources.base.FriendFilter attribute), 18
init() (steampak.libsteam.resources.main.Api method), 16
install() (steampak.libsteam.resources.apps.Dlc method), 14
install_dir (steampak.libsteam.resources.apps.Application attribute), 13
install_dir (steampak.libsteam.resources.apps.CurrentApplication attribute), 11
install_dir (steampak.libsteam.resources.apps.Dlc attribute), 14
install_path (steampak.libsteam.resources.main.Api attribute), 16
installed (steampak.libsteam.resources.apps.Application attribute), 13
installed (steampak.libsteam.resources.apps.Applications attribute), 10
installed (steampak.libsteam.resources.apps.CurrentApplication attribute), 11
installed (steampak.libsteam.resources.apps.Dlc attribute), 14
INTERNAL (steampak.libsteam.resources.utils.Universe attribute), 23
INVALID (steampak.libsteam.resources.utils.Universe attribute), 23
ipc_call_count (steampak.libsteam.resources.utils.Utils attribute), 22

L

language_available (steampak.libsteam.resources.apps.CurrentApplication attribute), 11
language_current (steampak.libsteam.resources.apps.CurrentApplication attribute), 11
level (steampak.libsteam.resources.user.CurrentUser attribute), 20
level (steampak.libsteam.resources.user.User attribute), 21
logged_in (steampak.libsteam.resources.user.CurrentUser attribute), 20

low_violence (steampak.libsteam.resources.apps.CurrentApplication attribute), 11

M

mark_corrupt() (steampak.libsteam.resources.apps.CurrentApplication method), 11

MAX (steampak.libsteam.resources.utils.Universe attribute), 24

mode_cybercafe (steampak.libsteam.resources.apps.CurrentApplication attribute), 12

mode_free_weekend (steampak.libsteam.resources.apps.CurrentApplication attribute), 12

N

name (steampak.libsteam.resources.apps.Application attribute), 13

name (steampak.libsteam.resources.apps.CurrentApplication attribute), 12

name (steampak.libsteam.resources.apps.Dlc attribute), 14

name (steampak.libsteam.resources.friends.FriendTag attribute), 17

name (steampak.libsteam.resources.groups.Group attribute), 18

name (steampak.libsteam.resources.user.User attribute), 21

name_history (steampak.libsteam.resources.user.User attribute), 21

nickname (steampak.libsteam.resources.user.User attribute), 21

NONE (steampak.libsteam.resources.base.FriendFilter attribute), 18

NotificationPosition (class in steampak.libsteam.resources.utils), 24

O

OFFLINE (steampak.libsteam.resources.user.UserState attribute), 22

ON_GAME_SERVER (steampak.libsteam.resources.base.FriendFilter attribute), 18

ONLINE (steampak.libsteam.resources.user.UserState attribute), 22

open_chat() (steampak.libsteam.resources.groups.Group method), 18

open_chat() (steampak.libsteam.resources.user.User method), 21

overlay (steampak.libsteam.resources.main.Api attribute), 16

overlay_enabled (steampak.libsteam.resources.utils.Utils attribute), 23

owned (steampak.libsteam.resources.apps.Application attribute), 13

owned (steampak.libsteam.resources.apps.CurrentApplication attribute), 12

owned (steampak.libsteam.resources.apps.Dlc attribute), 14

owner (steampak.libsteam.resources.apps.CurrentApplication attribute), 12

P

PUBLIC (steampak.libsteam.resources.utils.Universe attribute), 24

purchase_time (steampak.libsteam.resources.apps.Application attribute), 13

purchase_time (steampak.libsteam.resources.apps.CurrentApplication attribute), 12

purchase_time (steampak.libsteam.resources.apps.Dlc attribute), 15

R

READY_TO_PLAY (steampak.libsteam.resources.user.UserState attribute), 22

READY_TO_TRADE (steampak.libsteam.resources.user.UserState attribute), 22

remove_from_friends() (steampak.libsteam.resources.user.User method), 21

REQUESTING_FRIENDSHIP (steampak.libsteam.resources.base.FriendFilter attribute), 18

REQUESTING_INFO (steampak.libsteam.resources.base.FriendFilter attribute), 18

S

seconds_app_active (steampak.libsteam.resources.utils.Utils attribute), 23

seconds_computer_active (steampak.libsteam.resources.utils.Utils attribute), 23

server_time (steampak.libsteam.resources.utils.Utils attribute), 23

set_app_id() (steampak.libsteam.resources.main.Api class method), 16

set_notification_position() (steampak.libsteam.resources.utils.Utils method), 23

show_achievements() (steampak.libsteam.resources.user.User method), 21

[show_page\(\)](#) (steampak.libsteam.resources.groups.Group method), [18](#)
[show_profile\(\)](#) (steampak.libsteam.resources.user.User method), [21](#)
[show_stats\(\)](#) (steampak.libsteam.resources.user.User method), [21](#)
[shutdown\(\)](#) (steampak.libsteam.resources.main.Api method), [16](#)
[SNOOZE](#) (steampak.libsteam.resources.user.UserState attribute), [22](#)
[start_app\(\)](#) (steampak.libsteam.resources.main.Api method), [16](#)
[state](#) (steampak.libsteam.resources.user.User attribute), [21](#)
[stats](#) (steampak.libsteam.resources.groups.Group attribute), [18](#)
[steam_running](#) (steampak.libsteam.resources.main.Api attribute), [16](#)
[SteamAchievement](#) (in module steampak), [19](#)
[SteamApi](#) (in module steampak), [15](#)
[SteamApplication](#) (in module steampak), [12](#)
[SteamDlc](#) (in module steampak), [14](#)
[SUGGESTED](#) (steampak.libsteam.resources.base.FriendFilter attribute), [18](#)

T

[tags](#) (steampak.libsteam.resources.friends.Friends attribute), [17](#)
[title](#) (steampak.libsteam.resources.stats.Achievement attribute), [19](#)
[TOP_LEFT](#) (steampak.libsteam.resources.utils.NotificationPosition attribute), [24](#)
[TOP_RIGHT](#) (steampak.libsteam.resources.utils.NotificationPosition attribute), [24](#)

U

[ui_language](#) (steampak.libsteam.resources.utils.Utils attribute), [23](#)
[uninstall\(\)](#) (steampak.libsteam.resources.apps.Dlc method), [15](#)
[Universe](#) (class in steampak.libsteam.resources.utils), [23](#)
[universe](#) (steampak.libsteam.resources.utils.Utils attribute), [23](#)
[unlock\(\)](#) (steampak.libsteam.resources.stats.Achievement method), [20](#)
[unlocked](#) (steampak.libsteam.resources.stats.Achievement attribute), [20](#)
[User](#) (class in steampak.libsteam.resources.user), [20](#)
[UserState](#) (class in steampak.libsteam.resources.user), [22](#)
[Utils](#) (class in steampak.libsteam.resources.utils), [22](#)
[utils](#) (steampak.libsteam.resources.main.Api attribute), [17](#)

V

[vac_banned](#) (steampak.libsteam.resources.apps.CurrentApplication