SiriusXM Documentation

Release 0.1.0

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Contents:

SiriusXM

SiriusXM live radio playback

- Free software: MIT license

- Documentation: http://siriusxm.readthedocs.io/.

1.1 Features

- HTTP Proxy server that can serve HLS streams for SiriusXM channels

- Python SiriusXM Client

- Python classes for interface with SiriusXM channel data

For details on usage and installation, see the documentation.

1.2 Credits

This package was created with Cookiecutter and the audreyr/cookiecutter-pypackage project template.

Installation

2.1 Requirements

sxm requires Python 3.6+. It will not work on older version or Python 2 at all.

2.2 Github

sxm is not avaible on PyPi quite yet, as a result, you currently have to install it from Github directory. You can do this by running:

```
$ pip install https://github.com/AngellusMortis/SiriusXM/tarball/master#egg=sxm-0.1.0
```

2.3 From sources

The sources for SiriusXM can be downloaded from the Github repo.

You can either clone the public repository:

```
$ git clone git://github.com/AngellusMortis/SiriusXM
```

Or download the tarball:

```
$ curl -OL https://github.com/AngellusMortis/SiriusXM/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```

Usage

3.1 Command Line Interface

3.1.1 Help

Everything is outlined via command line via the *–help* option:

```
$ sxm --help
```

3.1.2 HTTP Proxy Server

Create HTTP proxy server to serve HLS streams for SiriusXM channels:

```
$ sxm --username myuser --password mypassword
```

This will start a HTTP server that a player that supports HLS (QuickTime, VLC, ffmpeg, etc) you can access a SiriusXM channel at http://127.0.0.1:9999/channel.m3u8 where "channel" is the channel name, ID, or Sirius channel number.

Username and password arguments are optional, if you leave one off, you will be prompted:

```
$ sxm --username myuser
```

Username and password can also be passed via the *SXM_USERNAME* and *SXM_PASSWORD* environment variables.

```
$ export SXM_USERNAME='myuser'
$ export SXM_PASSWORD='mypassword'
$ sxm
```

If you are a SiriusXM subscriber in Canada, you will need to change your region to *CA*

```
$ sxm -r CA
```

By default the HTTP server serves on *http://127.0.0.1:9999*, you can change this:

```
$ sxm -p 8000 -h 0.0.0.0
```

3.1.3 SiriusXM Channels

You can list all of the avaible SiriusXM channels for your account as well:

```
$ sxm -l
```

Here is a current list of channels and their channel IDs:

Name	ID
The Covers Channel	9416
Sports 958	9427
Utah Jazz	9294
Sports 975	9212
VOLUME	9442
HLN	cnnheadlinenews
Laugh USA	laughbreak
Washington Wizards	9295
Carlin's Corner	9181
70s on 7	totally70s
SXM NHL Network Radio	8185
Tom Petty Radio	9407
Underground Garage	undergroundgarage
SiriusXM Spotlight	9138
Radio Margaritaville	radiomargaritaville
Cincinnati Reds	9237
Portland Trail Blazers	9290
SiriusXM FC	9341
Miami Marlins	9245
SiriusXM Insight	8183
SiriusXM FLY	9339
Red White & Booze	9178
Kids Place Live	8216
New York Islanders	9313
New York Rangers	9314
SiriusXM NASCAR Radio	siriusnascarradio
1st Wave	firstwave
Los Angeles Rams	9203
Houston Rockets	9276
Washington Capitals	9324
Joel Osteen Radio	9392
Attitude Franco	energie2
Classic Rewind	classicrewind
SiriusXM PGA TOUR Radio	8186
Miami Heat	9281
80s on 8	big80s
SiriusXM 375	9459
Dallas Stars	9304

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Name	ID
Sports 977	9214
Denver Broncos	9155
Hip-Hop Nation	hiphopnation
Boston Red Sox	9234
SXM Limited Edition 5	9399
SiriusXM Silk	9364
Flow Nación	9185
Miami Dolphins	9162
Sports 983	9327
Viva	8225
Sports 985	9329
Barstool Radio on SiriusXM	9467
San Francisco 49ers	9202
Sports 992	9336
Arizona Diamondbacks	9231
ESPN Xtra	8254
Utopia	9365
RockBar	9175
Road Dog Trucking	roaddogtrucking
Colorado Rockies	9239
Colorado Avalanche	9303
Real Jazz	purejazz
Free Bird: LynyrdSkynyrd	9139
Sports 994	9338
Bluegrass Junction	bluegrass
Sports 986	9330
CBC Radio One	cbcradioone
POTUS Politics	indietalk
The Groove	8228
American Latino Radio	9133
Milwaukee Bucks	9282
Comedy Central Radio	9356
Z100/NY	8242
Philadelphia Flyers	9316
Chicago Bears	9151
FOX Business	9369
Washington Redskins	9206
Oklahoma City Thunder	9286
SXM Limited Edition 3	9353
SXM Rock Hall Radio	9174
Dallas Cowboys	9154
Boston Celtics	9268
Los Angeles Clippers	9278
Sports 980	9261
Classic Vinyl	classicvinyl
Howard 101	howardstern101
TODAY Show Radio	9390
Sway's Universe	9397
ESPN Deportes	espndeportes

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Name	ID
Houston Texans	9158
MLB Network Radio	8333
Sports 974	9211
La Politica Talk	9134
BB King's Bluesville	siriusblues
60s on 6	60svibrations
Sports 991	9335
C-SPAN Radio	8237
Spa	spa73
St. Louis Blues	9320
Kansas City Royals	9242
CBC Radio 3	cbcradio3
SiriusXM 372	9456
The Garth Channel	9421
Howard 100	howardstern100
FOX Sports on SiriusXM	9445
Sports 979	9216
CBS Sports Radio	9473
RURAL Radio	9367
Sports 984	9328
E Street Radio	estreetradio
Pop2K	8208
Indiana Pacers	9277
Korea Today	9132
PRX Public Radio	8239
Philadelphia Phillies	9251
Sports 963	9223
Dallas Mavericks	9272
Lithium	90salternative
New Orleans Saints	9165
SiriusXM SEC Radio	9458
The Joint	reggaerhythms
Atlanta Braves	9232
BPM	thebeat
Sports 981	9262
Florida Panthers	9307
Sports 969	9229
Willie's Roadhouse	theroadhouse
SiriusXMU	leftofcenter
Family Talk	8307
80s/90s Pop	9373
FOX News Headlines 24/7	9410
Ozzy's Boneyard	buzzsaw
Mad Dog Sports Radio	8213
Diplo's Revolution Radio	9472
SiriusXM ACC Radio	9455
Minnesota Timberwolves	9283
ONEderland	9419
SXM Limited Edition 9	9403

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Name	ID
Orlando Magic	9287
Sports 960	9220
Indianapolis Colts	9159
San Antonio Spurs	9291
Charlotte Hornets	9269
SiriusXM Stars	siriusstars
Phoenix Suns	9289
Canada Laughs	8259
Venus	9389
Sports 989	9333
Minnesota Vikings	9163
Krishna Das Yoga Radio	9179
Vancouver Canucks	9323
En Vivo	9135
Buffalo Sabres	9298
Pittsburgh Pirates	9252
Sports 978	9215
The Highway	newcountry
Kirk Franklin's Praise	praise
Tampa Bay Buccaneers	9204
SiriusXM Rush	8230
Hair Nation	hairnation
SiriusXM NFL Radio	siriusnflradio
The Verge	8244
Milwaukee Brewers	9246
Vegas Stats & Info	9448
Petty's Buried Treasure	9352
The Loft	8207
Sports 959	9428
The Emo Project	9447
Yacht Rock Radio	9420
SiriusXM Pops	siriuspops
The Bridge	thebridge
SiriusXM Preview	0
SiriusXM Hits 1	siriushits1
90s on 9	8206
Cincinnati Bengals	9152
Raw Dog Comedy Hits	rawdog
FOX News Talk	9370
Cleveland Browns	9153
Heart & Soul	heartandsoul
Faction Punk	faction
Toronto Raptors	9293
SiriusXM Scoreboard	8248
Ici Première	premiereplus
Cleveland Indians	9238
Chicago White Sox	9236
Los Angeles Chargers	9171
New York Knicks	9285

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Name	ID
Carolina Hurricanes	9299
Montreal Canadiens	9310
St. Louis Cardinals	9256
Águila	9186
Sports 988	9332
The Beatles Channel	9446
New York Yankees	9249
EW Radio	9351
Sports 971	9208
Canadian IPR	9358
SiriusXM Comes Alive!	9176
40s Junction	8205
Arizona Cardinals	9146
Sports 961	9221
Elvis Radio	elvisradio
enLighten	8229
Atlanta Hawks	9266
Chicago Cubs	9235
Seattle Mariners	9255
Road Trip Radio	9415
Symphony Hall	symphonyhall
SXM Limited Edition 11	9405
Latidos	9187
SiriusXM Comedy Greats	9408
Sports 982	9326
Sports 957	9426
Detroit Lions	9156
SiriusXM Chill	chill
SiriusXM Pac-12 Radio	9457
Chicago Blackhawks	9302
Cinemagic	8211
SiriusXM Progress	siriusleft
Atlanta Falcons	9147
Liquid Metal	hardattack
Radio Disney	radiodisney
The Blend	starlite
Verizon IndyCar Series	9207
Toronto Blue Jays	9259
Octane	octane
Jam On	jamon
The Billy Graham Channel	9411
Calgary Flames	9301
Triumph	9449
Sports 966	9226
Houston Astros	9241
ESPNU Radio	siriussportsaction
Chicago Bulls	9270
Pearl Jam Radio	8370
Caricia	9188

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Name	ID
Brooklyn Nets	9267
Sports 990	9334
Denver Nuggets	9273
El Paisa	9414
New York Jets	9167
Iceberg	icebergradio
70s/80s Pop	9372
The Message	spirit
Minnesota Wild	9309
Nashville Predators	9312
Memphis Grizzlies	9280
PopRocks	9450
SXM Limited Edition 8	9402
Arizona Coyotes	9394
La Kueva	9191
SiriusXM NBA Radio	9385
Sports 967	9227
BBC World Service	bbcworld
Sports 976	9213
Rumbón	9190
Ici Musique Chansons	8245
NPR Now	nprnow
KIDZ BOP Radio	9366
Sports 973	9210
SXM Limited Edition 4	9398
Velvet	9361
Classic Rock Party	9375
Los Angeles Lakers	9279
Met Opera Radio	metropolitanopera
SXM Limited Edition 6	9400
Green Bay Packers	9157
Sacramento Kings	9292
Pittsburgh Steelers	9170
Sports 954	9423
Carolina Shag Radio	9404
KIIS-Los Angeles	8241
Deep Tracks	thevault
Business Radio	9359
Philadelphia Eagles	9169
Buffalo Bills	9149
The Spectrum	thespectrum
Grateful Dead	gratefuldead
Pitbull's Globalization	9406
CNN	cnn
Oldies Party	9378
Golden State Warriors	9275
CNBC	cnbc
Sports 965	9225
The Catholic Channel	thecatholicchannel

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Name	ID
New England Patriots	9164
New Orleans Pelicans	9284
ESPN Radio	espnradio
Bloomberg Radio	bloombergradio
The Heat	hotjamz
Columbus Blue Jackets	9300
Sports 968	9228
Oakland Raiders	9168
Sports 972	9209
Detroit Tigers	9240
Pittsburgh Penguins	9318
HBCU	9130
Los Angeles Kings	9308
Ottawa Senators	9315
MSNBC	8367
Outlaw Country	outlawcountry
SXM Limited Edition 7	9401
Prime Country	primecountry
Jason Ellis	9363
Alt Nation	altnation
No Shoes Radio	9418
Radio Andy	9409
Baltimore Ravens	9148
San Jose Sharks	9319
San Francisco Giants	9254
Siriusly Sinatra	siriuslysinatra
New York Giants	9166
Doctor Radio	doctorradio
Sports 987	9331
San Diego Padres	9253
Texas Rangers	9258
SiriusXM Turbo	9413
Shade 45	shade45
North Americana	9468
Kevin Hart's Laugh Out Loud Radio	9469
Los Angeles Angels	9243
Sports 964	9224
BYUradio	9131
Ici FrancoCountry	rockvelours
Washington Nationals	9260
SportsCenter	9180
Baltimore Orioles	9233
EWTN Radio	ewtnglobal
Vivid Radio	8369
The Village	8227
Carolina Panthers	9150
Escape	8215
Toronto Maple Leafs	9322
Studio 54 Radio	9145

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Name	ID
New Jersey Devils	9311
Sports 962	9222
Kansas City Chiefs	9161
FOX News Channel	foxnewschannel
RadioClassics	radioclassics
Tennessee Titans	9205
Detroit Red Wings	9305
Telemundo	9466
The Coffee House	coffeehouse
Vegas Golden Knights	9453
Neil Diamond Radio	8372
Minnesota Twins	9247
The Pulse	thepulse
HUR Voices	9129
Tampa Bay Rays	9257
SiriusXM Love	siriuslove
Rock The Bells Radio	9471
Jacksonville Jaguars	9160
Sports 953	9422
Philadelphia 76ers	9288
Oakland Athletics	9250
Canada Talks	9172
Watercolors	jazzcafe
Edmonton Oilers	9306
Elevations	9362
SiriusXM Patriot	siriuspatriot
On Broadway	broadwaysbest
Detroit Pistons	9274
CNN en Español	cnnespanol
Tampa Bay Lightning	9321
Indie 1.0	9451
NBC Sports Radio	9452
Celebrate!	9412
Y2Kountry	9340
Los Angeles Dodgers	9244
Sports 993	9337
CNN International	9454
Seattle Seahawks	9201
Cleveland Cavaliers	9271
Luna	9189
Caliente	rumbon
Sports 956	9425
Ramsey Media Channel	9443
Faction Talk	8184
Winnipeg Jets	9325
50s on 5	siriusgold
Soul Town	soultown
Anaheim Ducks	9296
New York Mets	9248

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Name	ID
SiriusXM Urban View	8238
Comedy Roundup	bluecollarcomedy
Sports 955	9424
Influence Franco	8246
SXM Fantasy Sports Radio	8368
CBC Country	bandeapart
Boston Bruins	9297
Holiday Traditions	9342

3.2 Python API

Everything that *sxm* can do via command line is provided via a Python API as well.

3.2.1 SiriusXM Client

```python
from sxm import SiriusXMClient
from sxm.models import XMLiveChannel

sxm = SiriusXMClient('username', 'password')

if sxm.authenticate():
    channels = sxm.channels
    favorites = sxm.favorite_channels

    channel = sxm.get_channel('octane')
    now_playing = XMLiveChannel(sxm.get_now_playing(channel))
```

3.2.2 HTTP Proxy Server

You create your own HTTP proxy server as well:

```python
from sxm import SiriusXMClient
from sxm import run_http_server

sxm = SiriusXMClient('username', 'password')

if sxm.authenticate():
    # runs proxy server on http://127.0.0.1:9000
    run_http_server(sxm, 9000)
    # runs proxy server on http://0.0.0.0:9000
    run_http_server(sxm, 9000, ip='0.0.0.0')
```

If you want more control over the HTTP server, *run_http_server* is just a shortcut function:

```python
from http.server import HTTPServer

from sxm import SiriusXMClient
from sxm import make_http_handler
```

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```python
sxm = SiriusXMClient('username', 'password')

if sxm.authenticate():
    httpd = HTTPServer((ip, port), make_http_handler(sxm))
    try:
        httpd.serve_forever()
    except KeyboardInterrupt:
        pass
    httpd.server_close()
```

API Reference

4.1 Model API Reference

class sxm.models.**XMArt**(*art_dict: dict*)

class sxm.models.**XMImage**(*image_dict: dict*)

    height = None

    platform = None

    size = None

    width = None

class sxm.models.**XMCategory**(*category_dict: dict*)

    is_primary = True

class sxm.models.**XMMarker**(*marker_dict: dict*)

class sxm.models.**XMShow**(*show_dict: dict*)

class sxm.models.**XMEpisode**(*episode_dict: dict*)

class sxm.models.**XMEpisodeMarker**(*marker_dict: dict*)

class sxm.models.**XMArtist**(*artist_dict: dict*)

class sxm.models.**XMAlbum**(*album_dict: dict*)

    title = None

class sxm.models.**XMCut**(*cut_dict: dict*)

    cut_type = None

class sxm.models.**XMSong**(*song_dict: dict*)

>   **album = None**
>
>   **itunes_id = None**

class sxm.models.**XMCutMarker**(*marker_dict: dict*)

class sxm.models.**XMPosition**(*pos_dict: dict*)

class sxm.models.**XMHLSInfo**(*hls_dict: dict*)

>   **position = None**

class sxm.models.**XMChannel**(*channel_dict: dict*)
>   See *tests/sample_data/xm_channel.json* for sample
>
>   **pretty_name**
>>   Returns a formated version of channel number + channel name

class sxm.models.**XMLiveChannel**(*live_dict: dict*)
>   See *tests/sample_data/xm_live_channel.json* for sample
>
>   **get_latest_cut**(*now: Optional[int] = None*) → Optional[sxm.models.XMCutMarker]
>>   Returns the latest *XMCutMarker* based on type relative to now
>>
>>   **now** [Optional[int]] Timestamp in milliseconds from Epoch to be considered *now*
>
>   **get_latest_episode**(*now: Optional[int] = None*) → Optional[sxm.models.XMEpisodeMarker]
>>   Returns the latest *XMEpisodeMarker* based on type relative to now
>>
>>   **now** [Optional[int]] Timestamp in milliseconds from Epoch to be considered *now*
>
>   **song_cuts**
>>   Returns a list of all *XMCut* objects that are for songs
>
>   **static sort_markers**(*markers: List[sxm.models.XMMarker]*) → List[sxm.models.XMMarker]
>>   Sorts a list of *XMMarker* objects
>
>   **tune_time = None**

4.2 Exceptions

exception sxm.**AuthenticationError**
>   SiriusXM Authentication failed, renew session

exception sxm.**SegmentRetrievalException**
>   failed to get HLS segment, renew session

4.3 SiriusXMClient

class sxm.**SiriusXMClient**(*username: str*, *password: str*, *region: str = 'US'*, *user_agent: Optional[str] = None*, *update_handler: Optional[Callable[dict, None]] = None*)
>   Class to interface with SiriusXM api and access HLS live streams of audio
>
>   **username** [str] SiriusXM username

password [str] SiriusXM password

user_agent [Optional[str]] User Agent string to use for making requests to SiriusXM. If *None* is passed, it will attempt to generate one based on real browser usage data. Defaults to *None*.

update_handler [Optional[Callable[[dict], *None*]]] Callback to be called whenever a playlist updates and new Live Channel data is retrieved. Defaults to *None*.

is_logged_in [bool] Returns if account is logged into SiriusXM's servers

is_session_authenticated [bool] Returns if session is valid and ready to use

sxmak_token [str] Needs documentation

gup_id [str] Needs documentation

channels [List[XMChannel]] Retrieves and returns a full list of all XMChannel available to the logged in account

favorite_channels [List[XMChannel]] Retrieves and returns a full list of all XMChannel available to the logged in account that are marked as favorite

authenticate() → bool
> Attempts to create a valid session for use with the client

> **AuthenticationError** If login failed and session now needs to be reset

get_channel(*name: str*) → Optional[sxm.models.XMChannel]
> Retrieves a specific channel from *self.channels*

> **name** [str] name, id, or channel number of SiriusXM channel to get

get_channels() → List[dict]
> Gets raw list of channel dictionaries from SiriusXM. Each channel dict can be pass into the constructor of XMChannel to turn it into an object

get_now_playing(*channel: sxm.models.XMChannel*) → Optional[Dict[str, Any]]
> Gets raw dictionary of response data for the live channel.

> *data['messages'][0]['code']* will have the status response code from SiriusXM

> *data['moduleList']['modules'][0]['moduleResponse']['liveChannelData']* will have the raw data that can be passed into XMLiveChannel constructor to create an object

> **channel** [XMChannel] SiriusXM channel to look up live channel data for

get_playlist(*channel_id: str*, *use_cache: bool = True*) → Optional[str]
> Gets playlist of HLS stream URLs for given channel ID

> **channel_id** [str] ID of SiriusXM channel to retrieve playlist for

> **use_cache** [bool] Use cached playlists for force new retrival. Defaults to *True*

get_segment(*path: str*, *max_attempts: int = 5*) → Optional[bytes]
> Gets raw HLS segment for given path

> **path** [str] SiriusXM path

> **max_attempts** [int] Number of times to try to get segment. Defaults to 5.

> **SegmentRetrievalException** If segments are starting to come back forbidden and session needs reset

login() → bool
    Attempts to log into SiriusXM with stored username/password

4.4 HTTP Server

sxm.**make_http_handler**(*sxm: sxm.client.SiriusXMClient,   logger: logging.Logger*)   →
                          Type[http.server.BaseHTTPRequestHandler]
    Creates and returns a configured `http.server.BaseHTTPRequestHandler` ready to be used by a
    `http.server.HTTPServer` instance with your *SiriusXMClient*.

    Really useful if you want to create your own HTTP server as part of another application.

    sxm [*SiriusXMClient*] SiriusXM client to use

sxm.**run_http_server**(*sxm: sxm.client.SiriusXMClient, port: int, ip='0.0.0.0', logger: logging.Logger*
                          = None) → None
    Creates and runs an instance of `http.server.HTTPServer` to proxy SiriusXM requests without authenti-
    cation.

    You still need a valid SiriusXM account with streaming rights, via the *SiriusXMClient*.

    port [`int`] Port number to bind SiriusXM Proxy server on

    ip [`str`] IP address to bind SiriusXM Proxy server on

Contributing

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

You can contribute in many ways:

5.1 Types of Contributions

5.1.1 Report Bugs

Report bugs at https://github.com/andrew0/SiriusXM/issues.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

5.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with "bug" and "help wanted" is open to whoever wants to implement it.

5.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with "enhancement" and "help wanted" is open to whoever wants to implement it.

5.1.4 Write Documentation

SiriusXM could always use more documentation, whether as part of the official SiriusXM docs, in docstrings, or even on the web in blog posts, articles, and such.

5.1.5 Submit Feedback

The best way to send feedback is to file an issue at https://github.com/andrew0/SiriusXM/issues.

If you are proposing a feature:

- Explain in detail how it would work.

- Keep the scope as narrow as possible, to make it easier to implement.

- Remember that this is a volunteer-driven project, and that contributions are welcome :)

5.2 Get Started!

Ready to contribute? Here's how to set up *SiriusXM* for local development.

1. Fork the *SiriusXM* repo on GitHub.

2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/SiriusXM.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv sxm
$ cd SiriusXM/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 SiriusXM tests
$ python setup.py test or py.test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

5.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.

2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.

3. The pull request should work for Python 3.5, 3.6, and 3.7 and for PyPy. Check https://travis-ci.org/andrew0/ SiriusXM/pull_requests and make sure that the tests pass for all supported Python versions.

5.4 Tips

To run a subset of tests:

```
$ py.test tests.test_sxm
```

5.5 Deploying

A reminder for the maintainers on how to deploy. Make sure all your changes are committed (including an entry in HISTORY.rst). Then run:

```
$ bumpversion patch # possible: major / minor / patch
$ git push
$ git push --tags
```

Travis will then deploy to PyPI if tests pass.

Credits

6.1 Development Lead

- andrew0 <andrew0@github.com>

6.2 Contributors

- Christopher Bailey <cbailey@mort.is>

History

7.1 0.1.0 (2018-12-25)

- First release on PyPI.

CHAPTER 8

Indices and tables

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Python Module Index

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