
Missing TV Shows for Kodi

Release 1.2.2.dev0

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The `missingtvshows` verifies the locally available episodes for all Kodi Series

Homepage <http://missingtvshows.readthedocs.io/en/latest/>

Code <https://github.com/digsim/missingTvShows>

Mailing list <https://github.com/digsim/missingTvShows>

Dependencies pytvdbapi colorama sqlalchemy sqlalchemy-utils six mysqlclient progressbar2
and setuptools

Compatible with Python 2.6, 2.7 and 3.3+

License APACHE

CHAPTER 1

Roadmap

- 2.0: Progress bar, read ITC entry, limit amount of written entries, limit past entries

Test Coverage Report

Output from coverage test:

```
py35 runtests: commands[1] | coverage report
Name
-----
src/adnitc/__init__.py          2      0  100%
src/adnitc/itc/__init__.py      0      0  100%
src/adnitc/itc/calendar2itc.py 138     14   90%
src/adnitc/itc/calendarEvent.py 96      4   96%
src/adnitc/itc/itcClient.py    66     14   79%
src/adnitc/main/__init__.py     5      5    0%
src/adnitc/main/main.py        81     81    0%
src/adnitc/main/mainImpl.py    197    197    0%
src/adnitc/utis/__init__.py     0      0  100%
src/adnitc/utis/utilities.py   28     28    0%
-----
TOTAL                          613    343   44%
```


3.1 About

Missing TV-Shows for Kodi is a small python utility to check which episodes are still missing. Sometimes it is hard to keep up with multiple series and keep our collections clean and full. This small script iterates over all available series in Kodi and checks whether they some episodes are missing.

3.1.1 Introduction

To find missing episodes, for each season of each series, the script asks thetvdb.com for the total amount of episodes in this particular season. Based on the response from thetvdb and the information in the local Kodi database, the script computes the missing episodes.

The output is either: * command line only. The information is structured into four parts * CSV files. The information is spread upon three files.

The command line output is structured into the following four sections:

1. All episodes unwatched & Some episodes still missing
2. Some episodes already watched & Some episodes still missing
3. All episodes unwatched & All episodes downloaded
4. Some episodes already watched & All episodes downloaded

Since TheTVDB gets constantly updated (for running seasons), it is possible that a given season is sometimes in section 2) and sometimes in section 4). However, if the season is locked on thetvdb, the information is accurate and once a series arrives in section 4, it will stay there.

There is no section containing complete and watched episodes as I judge this information not relevant here. Thus, as soon as for a given season all episodes are collected and watched, it will disappear from the list.

3.2 Changelog

3.2.1 1.2.2 (Unreleased)

- Readthedocs integration
- Full Travis-Ci Integration
- Refactoring to PPIC

3.2.2 1.1.9 (2017-02-21)

- Adapted code to the new Kodi MyVideos107 DB Schema.

3.3 Installation

3.3.1 From Download

The simplest way to use *adnitc* is to download the packaged *pex* file from *adnitc* and put it somewhere on the path like `/usr/local/bin/` or ``/usr/local/share/bin` or ``~/ .local/bin/` and make it executable,

From this point on, the binary can be executed by calling the *pex* file directly. There exist 3 variants of the *pex* file, depending on the available python version. Choose either *adnitc26.pex*, *adnitc27.pex* or *adnitc35.pex* depending on what is available on your system.

3.3.2 From pip

Simply run:

```
sudo -H pip install adnitc
```

3.3.3 From Sources

Final installation

From a terminal launch:

```
python setup.py install --record files.txt
```

This will compile and install the project to the python libraries (eg. `/usr/local/lib/python3.5/site-packages/adnitc-0.9-py3.5.egg`). Furthermore it will install a script in `/usr/local/bin/`: `*adnitc`

Upon the first start a copy of a pristine application and logging configuration are created in the user's home directory `~/ .AdNITC/`. From this point on configuration files are read from this location. It is however possible to overwrite them either by placing a file with the same name (but prefixed with a dot eg. `.logging.conf`) in the current working directory.

Development installation

from a terminal launch:

```
python setup.py develop --record files.txt
```

does the same as before but, uses links instead of copying files.

Clean Working directory

To clean the working directory:

```
python setup.py clean --all
rm -rf build/ dist/ adnitc.egg-info/ files.txt
```

3.3.4 Known Problems

SSL Problems

Upon running the adnitc binary you might get the following exception:

```
ITC Password:
DEBUG - Using Python 2
DEBUG - Saving calendar to file /var/folders/j4/8bm7_nb54kl2m_9kl6k5gk880000gn/T/
↳tmp6krkW7
INFO - Starting new HTTPS connection (1): example.com
INFO - Starting new HTTPS connection (1): example.com
Traceback (most recent call last):
  File "/usr/local/bin/adnitc", line 9, in <module>
    load_entry_point('adnitc==1.0.0', 'console_scripts', 'adnitc')()
  File "/Volumes/Data/ruppena/Documents/Programming/Python/AdNITC/main/__init__.py",
↳line 8, in main
    main.getArguments(sys.argv[1:])
  File "/Volumes/Data/ruppena/Documents/Programming/Python/AdNITC/main/mainImpl.py",
↳line 58, in getArguments
    self.main()
  File "/Volumes/Data/ruppena/Documents/Programming/Python/AdNITC/main/main.py", line
↳48, in main
    self.doWork()
  File "/Volumes/Data/ruppena/Documents/Programming/Python/AdNITC/main/mainImpl.py",
↳line 76, in doWork
    events = c.fetchCalendarEvents()
  File "/Volumes/Data/ruppena/Documents/Programming/Python/AdNITC/ITC/calendar2itc.py
↳", line 33, in fetchCalendarEvents
    response = requests.get(self.__calendarurl, auth=(self.__username, self.__
↳password), stream=True, verify=False, proxies=self.__proxies)
  File "/Library/Python/2.7/site-packages/requests/api.py", line 70, in get
    return request('get', url, params=params, **kwargs)
  File "/Library/Python/2.7/site-packages/requests/api.py", line 56, in request
    return session.request(method=method, url=url, **kwargs)
  File "/Library/Python/2.7/site-packages/requests/sessions.py", line 475, in request
    resp = self.send(prepare, **send_kwargs)
  File "/Library/Python/2.7/site-packages/requests/sessions.py", line 596, in send
    r = adapter.send(request, **kwargs)
  File "/Library/Python/2.7/site-packages/requests/adapters.py", line 497, in send
```

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```
raise SSLError(e, request=request)
requests.exceptions.SSLError: [SSL: SSLV3_ALERT_HANDSHAKE_FAILURE] sslv3 alert_
↳handshake failure (_ssl.c:590)
```

This simply means that some OpenSSL libraries are too old. Start by upgrading:

```
sudo -H pip install --upgrade pyOpenSSL
sudo -H pip install --upgrade ndg-httpsclient
```

if that is not enough also update the following:

```
sudo -H pip install --upgrade pyasn1
```

Proxy Problems

Installation from sources may fail behind a proxy. Thus install the requirements by hand and specify the proxy:

```
sudo -H pip install --proxy=http://my.proxy.com:1234 -r requirements.txt
```

3.3.5 Uninstall

Method 1 (pip)

If the package was installed with pip simply run:

```
pip uninstall adnirc
```

Method 2 (from sources)

If the packages was installed from sources:

```
cat files.txt |sudo xargs rm -rf
```

Method 3 (from sources)

First find the installed package with pip and the uninstall it:

```
~/Documents/Programming/Python/AdNIRC [master| 1]
19:02 $ pip3 freeze |grep adnirc
adnirc==1.1

~/Documents/Programming/Python/AdNIRC [master| 1]
19:02 $ pip3 uninstall adnirc
Uninstalling adnirc-1.1:
  /usr/local/bin/adnirc
  /usr/local/lib/python3.5/site-packages/adnirc-1.1.dist-info/DESCRIPTION.rst
  /usr/local/lib/python3.5/site-packages/adnirc-1.1.dist-info/INSTALLER
  /usr/local/lib/python3.5/site-packages/adnirc-1.1.dist-info/METADATA
  /usr/local/lib/python3.5/site-packages/adnirc-1.1.dist-info/RECORD
  /usr/local/lib/python3.5/site-packages/adnirc-1.1.dist-info/WHEEL
```

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```

/usr/local/lib/python3.5/site-packages/adnitc-1.1.dist-info/entry_points.txt
/usr/local/lib/python3.5/site-packages/adnitc-1.1.dist-info/metadata.json
/usr/local/lib/python3.5/site-packages/adnitc-1.1.dist-info/top_level.txt
/usr/local/lib/python3.5/site-packages/adnitc/__init__.py
/usr/local/lib/python3.5/site-packages/adnitc/__pycache__/__init__.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/adnitc/etc/adnitc-completion.bash
/usr/local/lib/python3.5/site-packages/adnitc/etc/adnitc.conf
/usr/local/lib/python3.5/site-packages/adnitc/etc/logging.conf
/usr/local/lib/python3.5/site-packages/adnitc/itc/__init__.py
/usr/local/lib/python3.5/site-packages/adnitc/itc/__pycache__/__init__.cpython-35.
↪pyc
/usr/local/lib/python3.5/site-packages/adnitc/itc/__pycache__/calendar2itc.cpython-
↪35.pyc
/usr/local/lib/python3.5/site-packages/adnitc/itc/__pycache__/calendarEvent.cpython-
↪35.pyc
/usr/local/lib/python3.5/site-packages/adnitc/itc/__pycache__/itcClient.cpython-35.
↪pyc
/usr/local/lib/python3.5/site-packages/adnitc/itc/calendar2itc.py
/usr/local/lib/python3.5/site-packages/adnitc/itc/calendarEvent.py
/usr/local/lib/python3.5/site-packages/adnitc/itc/itcClient.py
/usr/local/lib/python3.5/site-packages/adnitc/main/__init__.py
/usr/local/lib/python3.5/site-packages/adnitc/main/__pycache__/__init__.cpython-35.
↪pyc
/usr/local/lib/python3.5/site-packages/adnitc/main/__pycache__/main.cpython-35.pyc
/usr/local/lib/python3.5/site-packages/adnitc/main/__pycache__/mainImpl.cpython-35.
↪pyc
/usr/local/lib/python3.5/site-packages/adnitc/main/main.py
/usr/local/lib/python3.5/site-packages/adnitc/main/mainImpl.py
Proceed (y/n)? y
Successfully uninstalled adnitc-1.1

```

To install the adnitc package, use:

```
python setup.py install
```

If installation is successful, you will be able to import the iCalendar package, like this:

```
>>> import icalendar
```

3.3.6 Building the documentation locally

To build the documentation follow these steps:

```

$ git clone http://digsim.is-a-geek.com/rhode/AdNITC
$ cd adnitc
$ virtualenv-2.7 .
$ source bin/activate
$ pip install -r requirements_docs.txt --extra-index-url http://pypi.is-a-geek.com/
↪simple --trusted-host pypi.is-a-geek.com
$ cd docs
$ make html

```

You can now open the output from `_build/html/index.html`. To build the presentation-version use `make presentation` instead of `make html`. You can open the presentation at `presentation/index.html`.

3.4 Usage

A Sample output may be look like this:

```

:src$ missingTVShows
Acquiring necessary TV-Shows information
[=====
↳ ] 95%
#####
##### Unwatched Missing #####
#####
-----
↳ -----
|Title                               | Season (Downloaded/Available)|
↳Missing                             |
-----
↳ -----
|Gold Rush                           : | S3 ( 2/17)| missing: 3, 4, 5, 6, 7,
↳ 8, 9, 10, 11, 12, 13, 14, 15, 16, 17 |
-----
↳ -----
#####
##### Watched Missing #####
#####
-----
↳ -----
|Title                               (SeasonId) | Season (Downloaded/Available)|
↳Missing                             |
-----
↳ -----
|fernOST - Von Berlin nach Tokio     (275486 ) : | S1 (10/11)| missing: 11
↳                                     |
-----
↳ -----
#####
##### Ready to Watch #####
#####
Big Rig Bounty Hunters               : Season 1 and has 8/8 Episodes
Doomsday Preppers                    : Season 2 and has 18/18 Episodes
Doomsday Preppers                    : Season 3 and has 14/14 Episodes
#####
##### Complete and Watching #####
#####
Doomsday Preppers                    : Season 1 and has watched 8/12 Episodes

```

3.4.1 Installation

From pip

Simply run:

```

pip install missingTVShows

```


From Sources

Final installation

From a terminal launch:

```
sudo python setup.py install --record files.txt
```

this will compile and install the project to the python libraries (eg. `/usr/local/lib/python2.7/dist-packages/XWoT_Model_Translator-1.1-py2.7.egg`). Furthermore it will install a script in `/usr/local/bin/`: `* missingTVShows`

The basic configuration and `logging.conf` are copied into `/etc/MissingTVShows/`. Upon the first start a copy of this directory is created in the user's home directory `~/.MissingTVShows/`. From this point on configuration files are read from this location. It is however possible to overwrite them either by placing a file with the same name (but prefixed with a dot eg. `.logging.conf`) in the user home directory or a file with the same name in the current working directory.

Development installation

from a terminal launch:

```
sudo python setup.py develop --record files.txt
```

does the same as before but, uses links instead of copying files.

Clean Working directory

To clean the working directory:

```
sudo python setup.py clean --all
sudo rm -rf build/ dist/ Identify_missing_TVShows_in_Kodi.egg-info/ files.txt
```

3.4.2 Uninstall

Method 1

Via pip:

```
pip uninstall missingTVShows
```

Method 2 (if installed from sources)

By hand:

```
cat files.txt |sudo xargs rm -rf
```

Method 3 (if installed from sources)

First find the installed package with pip and the uninstall it:

```
~/Documents/Programming/Python/missing_tv_shows_for_xbmc [master ↑·1| 1]
12:11 $ pip freeze |grep Identify-missing-TVShows
Identify-missing-TVShows-in-Kodi==1.1
~/Documents/Programming/Python/missing_tv_shows_for_xbmc [master ↑·1| 1]
```

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```
12:11 $ sudo pip uninstall Identify-missing-TVShows-in-Kodi
Password:
Uninstalling Identify-missing-TVShows-in-Kodi:
  /Library/Python/2.7/site-packages/Identify_missing_TVShows_in_Kodi-1.1-py2.7.egg
  /usr/local/bin/missingTVShows
Proceed (y/n)? y
  Successfully uninstalled Identify-missing-TVShows-in-Kodi
  ~/Documents/Programming/Python/missing_tv_shows_for_xbmc [master ↑·1| 1]
12:12 $
```

3.4.3 Configuration

Upon the first launch, the script creates the `~/MissingTVShows/` directory containing: `* logging.conf` where the logger is configured `* tvshows.cfg` where the general configuration is stored. Adapt at least the `<db>` property and point it to the Kodi `MyVideosXX.db`. This file is usually found under

- On Linux system this files is usually: `/home/<username>/.kodi/userdata/Database/MyVideos93.db`
- On Mac OsX the file is found under: `/Users/<username>/Library/Application Support/Kodi/userdata/Database/MyVideos93.db`
- Under Windows there must me a simliar location ;-)
- `tvdbdb.db` the local TheTVDB.com cache as SQLite file

3.5 Downloads

Download the application directly from here:

- `adnitc26.pex` For Python 2.6
- `adnitc27.pex` For Python 2.7
- `adnitc35.pex` For Python 3

3.6 adnitc contributors

- Andreas Ruppen <andreas.ruppen@gmail.com>

Find out who contributed:

```
$ git shortlog -s -e
```

3.7 License

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