nrkdownload Documentation

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Note: If you have been using an older version of this tool, please note that version 3.x is a complete rewrite from scratch. The funtionallity has been reduced and simplifed a bit compared to previous versions.

CHAPTER 1

Features

This is a commandline tool for downloading content from NRK (Norwegian public broadcaster). It supports downloading TV series and programs. The tool is written in Python, and is compatible with Python 3.8 or newer. It has been tested under Linux, Mac OS X and Windows.

Please only use this tool for personal purposes. You are responsible for not breaking any Intellectual Property Rights. Users outside of Norway should note that some of the content is geo-restricted.

1.1 Downloading media and metadata

The idea behind the tool is that the downloaded programs should integrate seamlessly into you favorite media server, e.g. Plex. If you for example download all the episodes of the popular series Førstegangstjenesten, you would get a directory-structure like this:

```
Førstegangstjenesten
├── banner.jpg
├── Season 01
│   ├── Førstegangstjenesten - s01e01 - 1. Pilot - del 1.jpg
│   ├── Førstegangstjenesten - s01e01 - 1. Pilot - del 1.m4v
│   ├── Førstegangstjenesten - s01e01 - 1. Pilot - del 1.no.srt

└── Season 02
    ├── Førstegangstjenesten - s02e01 - 1. episode.jpg
    ├── Førstegangstjenesten - s02e01 - 1. episode.m4v
    ├── Førstegangstjenesten - s02e01 - 1. episode.no.srt

    ├── Førstegangstjenesten - s02e08 - 8. episode.jpg
    ├── Førstegangstjenesten - s02e08 - 8. episode.m4v
    ├── Førstegangstjenesten - s02e08 - 8. episode.no.srt
    └── Season02.jpg
```

CHAPTER 2

Installing nrkdownload

2.1 Installing or upgrading to the latest release of nrkdownload

The package is avaible via PyPI. The recommended way to install `nrkdownload` is by using pipx. `pipx` is a tool that installs and runs Python applications in isolated environments. If you haven't already done so, start by installing pipx, and then install, upgrade or uninstall `nrkdownload` like this:

```
$ pipx install nrkdownload
$ pipx upgrade nrkdownload
$ pipx uninstall nrkdownload
```

Note that in order to download video and subtitles, an installation of `ffmpeg` is needed. See *Installing FFmpeg*.

CHAPTER 3

Installing FFmpeg

The videos and subtitles are downloaded using FFmpeg. It is available for all major operating systems. You need to install ffmpeg and make it available in your $PATH before you can use nrkdownload.

3.1 For Windows

Should be rather straight forward. Download the latest static build and run the installer.

3.2 For Linux

Depending on your Linux-distribution, you might have to add a package-repository in order to install ffmpeg. If you get stuck, try too Google installing ffmpeg for YOUR_LINUX_DISTRO.

3.3 For MacOS

Download the static build of the latest release. Open the .dmg-file and copy the binary file ffmpeg to e.g. a directory `bin` inside your home directory. Then, add `~/bin` to your PATH.

CHAPTER 4

Usage

Start by browsing https://tv.nrk.no until you find what you want. Copy the URLs and give it as an argument for this tool. You can list several URLs on the command line (separated by space). Content that are already downloaded will be skipped.

4.1 Options

Usage: nrkdownload [OPTIONS] URLS...

Arguments: URLS... One or more valid URLs from https://tv.nrk.no/ [required]

Options:

-d, --download-dir PATH	Download directory. Can also be specified by setting the environment variable NRKDOWNLOAD_DIR [default: ~/Downloads/nrkdownload]
--version	Print version string
-v	Increase logger verbosity. Can be repeated up to four times. [default: 0; x<=4]
--help	Show this message and exit.

The files are by default downloaded to ~/Downloads/nrkdownload. This can be changed by using the option -d as described above, or you can define the environment variable NRKDOWNLOAD_DIR

4.2 URL Parsing and actions

If the URL points to the top-level of a series, all episodes in all seasons will be downloaded. If the URL points to a specific season, only the episodes within that season will be downloaded.

CHAPTER 5

Examples

5.1 Downloading programs

For downloading a specific program that is not part of a series, the URL could look like e.g. https://tv.nrk.no/program/MUHH49000021

5.2 Dowloading series

Let's say you are interested in downloading all the available episodes about the rescue boat "Elias". You would then search for "Elias" on https://tv.nrk.no and end up at a page with the URL https://tv.nrk.no/serie/elias. If you give this URL as an argument to `nrkdownload`, all (available) episodes in all seasons will be downloaded.

5.3 Downloading a single season

If you are only interested in a specific season of a series, click around on the webpages until you are only looking at that season. As an example, if you wanted to download the third season of SKAM, you would use an URL like https://tv.nrk.no/serie/skam/sesong/3

5.4 Downloading a single episode

If you want to download only a single episode of a series, navigate https://tv.nrk.no until that episode is selected. The URL will look like e.g. https://tv.nrk.no/serie/kongen-av-gulset/sesong/1/episode/3/avspiller or https://tv.nrk.no/serie/klassequizen/2021/DSRR21000521/avspiller, where information about the episode is included.

Giving a URL like this as argument to nrkdownload, will result in only this single episode to be downloaded.

CHAPTER 6

Contributing

6.1 How to make changes

You are welcome to help develop `nrkdownload`, following these steps:

1. Clone the GitHub repository
2. Create a new branch based on the `master` branch
3. Add your code or bugfixes
4. Make a pull request towards the `master` branch