
feeds Documentation

Release 2018.7.30

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Oct 17, 2019

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Feeds provides DIY Atom feeds in times of social media and paywall.

CHAPTER 1

Get Feeds

Feeds is meant to be installed on your server and run periodically in a cron job or similar job scheduler.

The easiest way to install Feeds is via `pip` in a virtual environment. Feeds does not provide any releases yet, so one might directly install the current master branch:

```
$ git clone https://github.com/pyfeeds/pyfeeds.git
$ cd feeds
$ python3 -m venv venv
$ source bin/activate
$ pip install -e .
```

After installation `feeds` is available in your virtual environment.

Feeds supports Python 3.5+.

Feeds has a few commands that are described on this page.

- List all available spiders:

```
$ feeds list
```

- Feeds allows to crawl one or more spiders without a configuration file, e.g.:

```
$ feeds crawl indiehackers.com
```

- A *configuration file* is supported too. Simply copy the *Example configuration* and adjust it. Enable the spiders you are interested in and adjust the `output_path` where Feeds stores the scraped Atom feeds:

```
$ cp feeds.cfg.dist feeds.cfg
$ $EDITOR feeds.cfg
$ feeds --config feeds.cfg crawl
```

- Perform a cache cleanup:

```
$ feeds --config feeds.cfg cleanup
```

- Point your feed reader to the generated Atom feeds and start reading. Feeds works best when run periodically in a cron job or similar job scheduler.
- Run `feeds --help` or `feeds <subcommand> --help` for help and usage details.

3.1 Feeds settings

Configuration settings related to Feeds need to be specified within the `[feeds]` section of the configuration file. The following settings are supported.

3.1.1 useragent

The Useragent used for crawling.

```
[feeds]
useragent = feeds (+https://github.com/pyfeeds/pyfeeds)
```

3.1.2 spiders

Each spider listed in the `spiders` setting will be crawled with each run. List one spider per line.

```
[feeds]
spiders =
    tvthek.orf.at
    oel.orf.at
```

3.1.3 output_path

This is the path where the generated Atom feeds will be saved.

```
[feeds]
output_path = output
```

3.1.4 output_url

The URL of the target directory from which the feeds can be accessed. This is an optional setting and it is used to generate `atom:link` element with `rel="self"` attribute. See also: <https://validator.w3.org/feed/docs/warning/MissingSelf.html>

```
[feeds]
output_url = https://example.com/feeds
```

3.1.5 cache_enabled

Feeds can be configured to use a cache for HTTP responses which is highly recommended to save bandwidth. The `cache_enabled` setting controls whether caching is used.

```
[feeds]
cache_enabled = 1
```

3.1.6 cache_dir

The path where cache data is stored.

```
[feeds]
cache_dir = .cache
```

3.1.7 cache_expires

Expire (remove) entries from cache after 90 days.

```
[feeds]
cache_expires = 90
```

3.2 Spider specific settings

Some spiders support additional settings. Head over to the Supported Websites section for more information on spider specific settings.

3.3 Example configuration

Have a look at Feeds example configuration when configuring Feeds to suit your needs.

```
# Feeds configuration.

[feeds]
# Useragent to use for crawling.
useragent = feeds (+https://github.com/pyfeeds/pyfeeds)

## List of spiders to run by default, one per line.
```

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```
# spiders =
#   tvthek.orf.at
#   oel.orf.at

## Target directory where the feeds will be saved.
# output_path = output

## URL of target directory from which the feeds can be accessed.
## Optional; used to generate atom:link element with rel="self" attribute.
## See also: https://validator.w3.org/feed/docs/warning/MissingSelf.html
# output_url = https://example.com/feeds

## Truncate content to 10 words instead of including the full text.
## This can be useful if generated feeds should be made publicly available.
# truncate_words = 10
## Remove images from output.
# remove_images = 1

## Enable caching of responses
# cache_enabled = 1
## Path to the cache.
# cache_dir = ~/.cache/feeds
## Expire (remove) entries from cache after 90 days
# cache_expires = 90

#[generic]
## A list of URLs to RSS/Atom feeds.
# urls =
## A list of URLs to RSS/Atom feeds that provide the full content in the "encoded" or
## "content" tag.
# fulltext_urls =

#[falter.at]
## falter.at has a paywall for certain articles.
## If you want to crawl paid articles, please provide abonr (subscription
## number) and password.
# abonr =
# password =

#[konsument.at]
## KONSUMENT.AT has a paywall for certain articles.
## If you want to crawl paid articles, please provide username and password.
# username =
# password =

#[biblioweb.at]
## Location of your library that uses biblioweb.at.
# location =

#[lwn.net]
## LWN.net has paywalled articles.
## If you want to crawl them, please provide username and password.
# username =
# password =

#[vice.com]
#locales =
```

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```
#   de_at
#   de

#[nachrichten.at]
## Nachrichten.at has paywalled articles.
## If you want to crawl them, please provide username and password.
#username =
#password =
#ressorts =
#   wels
#   linz
#   nachrichten

#[uebermedien.de]
## uebermedien.de has a paywall for certain articles.
## If you want to crawl paid articles, please provide your Steady username
## and password.
# username =
# password =

#[orf.at]
#channels =
#   news
#   fm4
#   science
#   help
#   sport
#   oe3
#   oesterreich
#   burgenland
#   wien
#   noe
#   ooe
#   salzburg
#   steiermark
#   kaernten
#   vorarlberg
#   tirol
#   religion
#authors =
#   Erich Moechel

#[derstandard.at]
#ressorts =
#   diskurs/kolumnen/rauscher
#   inland/serienundblogs/standardabweichung
#   etat
#   immobilien
#users =
#   571924

#[arstechnica.com]
#channels =
#   index
#   features
#   technology-lab
#   gadgets
```

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```
# business
# security
# tech-policy
# apple
# gaming
# science
# multiverse
# cars
# staff-blogs
# cardboard
# open-source
# microsoft
# software
# telecom
# web

#[ubup.com]
#links =
# /katalog?sortiertnach=neueste

#[diepresse.com]
#sections =
# Meinung/Pizzicato

#[kurier.at]
#channels =
# /chronik/wien
#articles =
# /meinung/pammesberger-2018-die-karikatur-zum-tag/309.629.015/slideshow
#authors =
# niki.glattauer
# guido.tartarotti
# florian.holzer
# barbara.kaufmann

#[spotify.com]
#shows =
# 6u7pI0o0CUBQq0T1fwPgbj

#[wienerzeitung.at]
#ressorts =
# nachrichten/politik/wien
# nachrichten/politik
# nachrichten/wirtschaft
# meinung
```

Supported Websites

Feeds is currently able to create full text Atom feeds for the websites listed below. All feeds contain the articles in full text so you never have to leave your feed reader while reading.

4.1 A note on paywalls

Some sites (*Falter*, *Konsument*, *LWN*) offer articles only behind a paywall. If you have a paid subscription, you can configure your username and password in `feeds.cfg` (see also *Configure Feeds*) and also paywalled articles will be included in full text in the created feed. If you don't have a subscription and hence the full text cannot be included, paywalled articles are tagged with `paywalled` so they can be filtered, if desired.

4.2 Most popular sites

4.2.1 arstechnica.com

Full text feeds for *Ars Technica*.

Configuration

Add `arstechnica.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    arstechnica.com
```

`arstechnica.com` supports different channels via the `channels` parameter (one per line). If no channel is given, `features` is used. Go to [RSS feeds](#) for a list of all feeds.

```
[arstechnica.com]
```

```
channels =  
    index  
    features  
    technology-lab  
    gadgets  
    business  
    security  
    tech-policy  
    apple  
    gaming  
    science  
    multiverse  
    cars  
    staff-blogs  
    cardboard  
    open-source  
    microsoft  
    software  
    telecom  
    web
```

4.2.2 indiehackers.com

Newest interviews on [Indie Hackers](#).

Configuration

Add `indiehackers.com` to the list of spiders:

```
# List of spiders to run by default, one per line.  
spiders =  
    indiehackers.com
```

4.2.3 lwn.net

Newest articles from [LWN](#) with special treatment of [LWN Weekly Editions](#). Please note that [LWN](#) requires the cache to be enabled to minimize useless requests. In case you provide username and password, the session (cookie) is also cached until the cache entry expires.

Configuration

Add `lwn.net` to the list of spiders:

```
# List of spiders to run by default, one per line.  
spiders =  
    lwn.net
```

[LWN](#) has paywalled articles. If you want to crawl them, please provide username and password.

```
[lwn.net]
username =
password =
```

4.2.4 spotify.com

Podcasts hosted on Spotify.

Configuration

Add `spotify.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    spotify.com
```

spotify.com supports different podcasts via the `show` parameter (one per line).

Example configuration:

```
[spotify.com]
shows =
    6u7pI0o0CUBQq0T1fwPgbj
```

4.2.5 vice.com

Newest articles from VICE.

Configuration

Add `vice.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    vice.com
```

VICE supports different locations via the `locales` parameter (one per line).

```
[vice.com]
locales =
    de_at
    de
```

4.3 Support for generic sites

4.3.1 Generic full-text extraction

The generic spider can transform already existing Atom or RSS feeds, which usually only contain a summary or a few lines of the content, into full content feeds. It is similar to [Full-Text RSS](#) but uses a port of an older version of [Readability](#) under the hood and currently doesn't support `site_config` files. It works best for blog articles.

Some feeds already provide the full content but in a tag that is not used by your feed reader. E.g. feeds created by Wordpress usually have the full content in the “encoded” tag. In such cases it’s best to add the URL to the `fulltext_urls` entry which extracts the content directly from the feed without [Readability](#). There is a little helper script in `scripts/check-for-fulltext-content` to detect if a feed contains full-text content.

Configuration

Add `generic` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    generic
```

Add the feed URLs (Atom or XML) to the config file.

```
# List of URLs to RSS/Atom feeds to crawl, one per line.
[generic]
urls =
    https://www.example.com/feed.atom
    https://www.example.org/feed.xml
fulltext_urls =
    https://myblog.example.com/feed/
```

4.4 All supported sites

4.4.1 addendum.org

Newest articles from [Addendum](#).

Configuration

Add `addendum.org` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    addendum.org
```

4.4.2 ak.ciando.com

Most recently added books to the Arbeiterkammer e-library on [ak.ciando.com](#).

Configuration

Add `ak.ciando.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    ak.ciando.com
```

4.4.3 atv.at

Get newest episodes of TV shows from [ATV.at](#).

Configuration

Add `atv.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    atv.at
```

4.4.4 biblioweb.at

Most recently added media to libraries based on the [biblioweb.at](#) software.

Configuration

Add `biblioweb.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    biblioweb.at
```

The location of your library that uses [biblioweb.at](#) is needed as parameter.

```
[biblioweb.at]
location =
```

4.4.5 cbird.at

Newest releases of the [cbird](#) software.

Configuration

Add `cbird.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    cbird.at
```

4.4.6 delinski.at

Newest restaurants in Wien bookable at [Delinski](#).

Configuration

Add `delinski.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    delinski.at
```

4.4.7 derstandard.at

Newest articles from `derStandard.at`.

Configuration

Add `derstandard.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    derstandard.at
```

`derstandard.at` supports different ressorts via the `ressorts` parameter (one per line).

The spider also has support user postings via the `users` parameter (one per line).

Example configuration:

```
[derstandard.at]
ressorts =
    diskurs/kolumnen/rauscher
    etat
    immobilien
users =
    4894
    571924
```

4.4.8 diepresse.com

Newest articles from `DiePresse.com`.

Configuration

Add `diepresse.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    diepresse.com
```

`diepresse.com` supports different sections (ressorts) via the `sections` parameter (one per line). If no section is given, `all` is used which is a catch-all section that includes all articles. Sections must match exactly, not only partially.

Example configuration:

```
[diepresse.com]
sections =
    Meinung/Pizzicato
```

4.4.9 dietiwag.org

Latest articles of dietiwag.org.

Configuration

Add dietiwag.org to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    dietiwag.org
```

4.4.10 falter.at

Get newest articles and restaurant reviews from Falter.

Configuration

Add falter.at to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    falter.at
```

Falter has a paywall for certain articles. If you want to crawl paid articles, please provide abonr (subscription number) and password.

pages accepts magazine for the Falter newspaper and lokalfuehrer_reviews for the restaurant reviews. By default both are scraped.

```
[falter.at]
abonr =
password =
pages =
    magazine
    lokalfuehrer_reviews
    lokalfuehrer_newest
```

4.4.11 help.gv.at

News and changes in Austrian law on help.gv.at.

Configuration

Add `help.gv.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    help.gv.at
```

4.4.12 konsument.at

Get newest articles from `konsument.at`.

Configuration

Add `konsument.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    konsument.at
```

This website has a paywall for certain articles. If you want to crawl paid articles, please provide username and password:

```
[konsument.at]
username =
password =
```

4.4.13 kurier.at

Newest articles from `Kurier.at`.

Configuration

Add `kurier.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    kurier.at
```

`kurier.at` supports different channels via the `channels` parameter, articles via the `articles` parameter and authors via the `authors` parameter (one per line).

Example configuration:

```
[kurier.at]
channels =
    /chronik/wien
articles =
    /meinung/pammesberger-2018-die-karikatur-zum-tag/309.629.015/slideshow
authors =
    niki.glattauer
    guido.tartarotti
```

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```
florian.holzer  
barbara.kaufmann
```

4.4.14 nachrichten.at

Newest articles from [Oberösterreichische Nachrichten](#).

Configuration

Add `nachrichten.at` to the list of spiders:

```
# List of spiders to run by default, one per line.  
spiders =  
    nachrichten.at
```

[Oberösterreichische Nachrichten](#) supports different ressorts via the `ressorts` parameter (one per line). If no ressort is given, the default ressort “nachrichten” is used.

```
[nachrichten.at]  
ressorts =  
    linz  
    wels
```

4.4.15 oe1.orf.at

Newest episodes of radio shows from [ORF Ö1](#).

Configuration

Add `oe1.orf.at` to the list of spiders:

```
# List of spiders to run by default, one per line.  
spiders =  
    oe1.orf.at
```

4.4.16 openwrt.org

Newest releases from [OpenWRT](#).

Configuration

Add `openwrt.org` to the list of spiders:

```
# List of spiders to run by default, one per line.  
spiders =  
    openwrt.org
```

4.4.17 orf.at

Newest articles from ORF ON.

Configuration

Add `orf.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    orf.at
```

`orf.at` supports different channels via the `channels` parameter (one per line). If no channel is given, `news` is used. It also possible to give a list of authors for which feeds will then be generated. Note that the ressort in which the author writes still has to be included in the `ressorts` parameter.

```
[orf.at]
ressorts =
    burgenland
    fm4
    help
    kaernten
    news
    noe
    oe3
    oesterreich
    ooe
    religion
    salzburg
    science
    sport
    steiermark
    tirol
    vorarlberg
    wien
authors =
    Erich Moechel
```

4.4.18 profil.at

Newest articles from `profil`.

Configuration

Add `profil.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    profil.at
```

4.4.19 puls4.com

Newest episodes of TV shows from `puls4.com`.

Configuration

Add `puls4.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    puls4.com
```

4.4.20 python-patterns.guide

The latest articles from `python-patterns.guide`. Since articles on `python-patterns.guide` do not have a publication date, the `Last-Modified` header is used for the updated field which might not be accurate or stable. I.e. old articles might have a newer value in the updated field even if they were not updated.

Configuration

Add `python-patterns.guide` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    python-patterns.guide
```

4.4.21 theoatmeal.com

Comics and blog posts from The Oatmeal.

Configuration

Add `theoatmeal.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    theoatmeal.com
```

4.4.22 tuwien.ac.at

Newest Mitteilungsblätter issued by TU Wien.

Configuration

Add `tuwien.ac.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    tuwien.ac.at
```

4.4.23 tvthek.orf.at

Newest episodes of TV shows from ORF TVthek.

Configuration

Add `tvthek.orf.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    tvthek.orf.at
```

4.4.24 ubup.com

Items available for buying at [ubup](#).

Configuration

Add `ubup.com` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    ubup.com
```

By default, **newest items** (from the first three pages) will be included. You can provide a list of links in case you want to limit the items to a specific brand or size.

```
[ubup.com]
links =
    /katalog?sortiertnach=neueste
```

4.4.25 uebermedien.de

Newest articles from [Übermedien](#).

Configuration

Add `uebermedien.de` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    uebermedien.de
```

[Übermedien](#) has a paywall for certain articles. If you want to crawl paid articles, please provide your Blendle username and password.

```
[uebermedien.de]
username =
password =
```

4.4.26 usenix.org

Newest issues of the Usenix Magazine ;login:.

Configuration

Add `usenix.org` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    usenix.org
```

4.4.27 verbraucherrecht.at

Newest articles from [Verbraucherrecht](#).

Configuration

Add `verbraucherrecht.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    verbraucherrecht.at
```

4.4.28 wienerlinien.at

Get newest articles from [Wiener Linien](#).

Configuration

Add `wienerlinien.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    wienerlinien.at
```

4.4.29 wienerzeitung.at

Newest articles from [Wiener Zeitung](#).

Configuration

Add `wienerzeitung.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    wienerzeitung.at
```

`wienerzeitung.at` supports different ressorts via the `ressorts` parameter (one per line).

Example configuration:

```
[wienerzeitung.at]
ressorts =
    nachrichten/politik/wien
    nachrichten/politik
    nachrichten/wirtschaft
    meinung
```

4.4.30 zeit.diebin.at

Newest articles from `zeitdiebin`.

Configuration

Add `zeit.diebin.at` to the list of spiders:

```
# List of spiders to run by default, one per line.
spiders =
    zeit.diebin.at
```

If you prefer to run pyfeeds in a docker container, you can use the official [pyfeeds image](#).

A `docker-compose.yaml` could look like this:

```
version: "3.7"
services:
  pyfeeds:
    image: pyfeeds/pyfeeds:latest
    volumes:
      - ./config:/config
      - pyfeeds-output:/output
    command: --config /config/feeds.cfg crawl
volumes:
  pyfeeds-output:
    name: pyfeeds-output
```

It mounts the `config` folder next to the `docker-compose.yaml` and uses the contained `feeds.cfg` as config for PyFeeds. The feeds are stored in a volume which could be picked up by a webserver:

```
version: "3.7"
services:
  pyfeeds-server:
    image: nginx:stable-alpine
    restart: always
    volumes:
      - pyfeeds-output:/usr/share/nginx/html:ro
volumes:
  pyfeeds-output:
    external: true
    name: pyfeeds-output
```

Now any other container in the same docker network (f.e. a ttrss server) could access the feeds (f.e. <http://pyfeeds-server/theoatmeal.com/feed.atom>). Add a port mapping in case you want to allow access from outside the container's docker network.

Writing a custom spider

Feeds already supports a number of websites (see *Supported Websites*) but adding support for a new website doesn't take too much time.

6.1 A quick example

Writing a spider is easy! Consider the slightly simplified spider for *indiehackers.com*:

```
import scrapy

from feeds.loaders import FeedEntryItemLoader
from feeds.spiders import FeedsSpider

class IndieHackersComSpider(FeedsSpider):
    name = "indiehackers.com"
    start_urls = ["https://www.indiehackers.com/interviews/page/1"]
    feed_title = "Indie Hackers"

    def parse(self, response):
        interview_links = response.css(".interview__link::attr(href)").extract()
        interview_dates = response.css(".interview__date::text").extract()
        for link, date in zip(interview_links, interview_dates):
            yield scrapy.Request(
                response.urljoin(link),
                self._parse_interview,
                meta={"updated": date.strip()},
            )

    def _parse_interview(self, response):
        remove_elems = [
            ".shareable-quote",
            ".share-bar",
```

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```
    ]
    il = FeedEntryItemLoader(
        response=response,
        base_url="https://{0}".format(self.name),
        remove_elems=remove_elems,
    )
    il.add_value("link", response.url)
    il.add_css("title", "h1::text")
    il.add_css("author_name", "header .user-link__name::text")
    il.add_css("content_html", ".interview-body")
    il.add_value("updated", response.meta["updated"])
    return il.load_item()
```

First, the URL from the `start_urls` list is downloaded and the response is given to `parse()`. From there we extract the article links that should be scraped and yield `scrapy.Request` objects from the for loop. The callback method `_parse_interview()` is executed once the download has finished. It extracts the article from the response HTML document and returns an item that will be placed into the feed automatically.

It's enough to place the spider in the `spiders` folder. It doesn't have to be registered somewhere for Feeds to pick it up.

6.2 Reusing an existing feed

Often websites provide a feed but it's not full text. In such cases you usually only want to augment the original feed with the full article.

6.2.1 Generic spider

For a lot of feeds (especially those from blogs) it is actually sufficient to use the *Generic full-text extraction* spider which can extract content from any website using heuristics (go to *Generic full-text extraction* for more on that).

Note that a lot of feeds (e.g. those generated by Wordpress) actually contain the full text but your feed reader chooses to show a summary instead. In such cases you can also use the *Generic full-text extraction* spider and add your feed URL to the `fulltext_urls` key in the config. This will create a full text feed from an existing feed without having to rely on heuristics.

6.2.2 Custom extraction

These spiders take an existing RSS feed and inline the article content while cleaning up the content (removing share buttons, etc.):

- *addendum.org*
- *arstechnica.com*
- *derstandard.at*
- *dietiwag.org*
- *lwn.net*
- *orf.at*

6.2.3 Paywalled content

If your website has a feed but some or all articles are behind a paywall or require to login to read, take a look at the following spiders:

- *lwn.net*
- *nachrichten.at*
- *uebermedien.de*

6.3 Creating a feed from scratch

Some websites don't offer any feed at all. In such cases we have to find an efficient way to detect new content and extract it.

6.3.1 Utilizing an API

Some use a REST API which we can use to fetch the content.

- *falter.at*
- *kurier.at*
- *oe1.orf.at*
- *tvthek.orf.at*
- *vice.com*

6.3.2 Utilizing the sitemap

Others provide a `sitemap` which we can parse:

- *diepresse.com*
- *profil.at*

6.3.3 Custom extraction

The last resort is to find a page that lists the newest articles and start scraping from there.

- *ak.ciando.com*
- *atv.at*
- *biblioweb.at*
- *cbird.at*
- *delinski.at*
- *help.gv.at*
- *indiehackers.com*
- *openwrt.org*
- *puls4.com*

- *python-patterns.guide*
- *tuwien.ac.at*
- *ubup.com*
- *usenix.org*
- *verbraucherrecht.at*
- *wienerlinien.at*
- *zeit.diebin.at*

For paywalled content, take a look at:

- *falter.at*
- *konsument.at*

Feeds uses GitHub as development platform.

7.1 Issues

- Search the existing issues in the [issue tracker](#).
- File a [new issue](#) in case the issue is undocumented.

7.2 Pull requests

- Fork the project to your private repository.
- Create a topic branch and make your desired changes.
- Open a pull request. Make sure the travis checks are passing.

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Version 3, 19 November 2007

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An interactive user interface displays "Appropriate Legal Notices"

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CHAPTER 9

About Feeds

Once upon a time every website offered an RSS feed to keep readers updated about new articles/blog posts via the users' feed readers. These times are long gone. The once iconic orange RSS icon has been replaced by "social share" buttons.

Feeds aims to bring back the good old reading times. It creates Atom feeds for websites that don't offer them (any-more). It allows you to read new articles of your favorite websites in your feed reader (e.g. [TinyTinyRSS](#)) even if this is not officially supported by the website.

Feeds is based on [Scrapy](#), a framework for extracting data from websites and it has support for a few websites already, see [Supported Websites](#). It's easy to add support for new websites. Just take a look at the existing spiders in `feeds/spiders` and feel free to open a *pull request*!

CHAPTER 10

Related work

- [morss](#) creates feeds, similar to Feeds but in “real-time”, i.e. on (HTTP) request.
- [Full-Text RSS](#) converts feeds to contain the full article and not only a teaser based on heuristics and rules. Feeds are converted in “real-time”, i.e. on request basis.
- [f43.me](#) converts feeds to contain the full article and also improves articles by adding links to the comment sections of Hacker News and Reddit. Feeds are converted periodically.
- [python-fts](#) is a library to extract content from pages. A partial reimplementation of Full-Text RSS.

CHAPTER 11

Authors

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