

来来 scrapy 爬取各大网站每日热点新闻

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原文链接: <https://ld246.com/article/1568913827437>

来源网站: [链滴](#)

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一.背景

最近玩爬虫, 各种想爬, scrapy又非常好用。想多爬一点东西, 决定爬一爬各大网站的热点新闻。想到就开始做了哈

项目已经爬取:

[豆瓣](#), [微博](#), [百度贴吧](#), [虎扑](#), [github](#), [百度今日热点](#)

二.上代码

1.开始搭建项目

```
scrapy startproject crawl_everything
#起了个叼叼的名字
```

2.修改配置文件

- settings.py设置文件:

```
ROBOTSTXT_OBEY = False
# 下载延时
DOWNLOAD_DELAY = 0.5
```

```
#增加user-agent 这个可以拿自己浏览器的。也可以网上搜一些其他的。东西很多的
USER_AGENT = 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_8_3) AppleWebKit/536.5 (KHTML, like Gecko) Chrome/19.0.1084.54 Safari/536.5'
```

初步设想, 我只需要存取文章的标题和内容链接和抓取时间

- 修改items.py

那么定义的item如下:

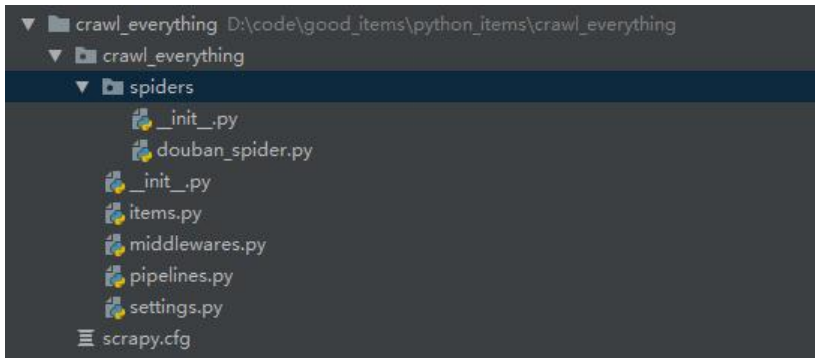
```
class CrawlEverythingItem(scrapy.Item):
    # 文章标题
    jk_title = scrapy.Field()
    # 文章链接
    jk_url = scrapy.Field()
    # 文章时间有可能没有
    jk_date = scrapy.Field()
```

3 : 生成第一个网站文件【豆瓣】:

#注意:这个命令在spiders目录执行

```
scrapy genspider douban_spider www.douban.com
```

上个结果图:



#先抓取豆瓣上的【24小时话题趋势】看看大家都在讨论啥
目标网址:<https://www.douban.com/gallery/>



知道目标了就开始爬吧：通过chrome的debug功能找到对应标签

```
def parse(self, response):
    trends=response.css('ul.trend > li > a')
    for trend in trends:
        item = CrawlEverythingItem()
        item['jk_title']=trend.css('a::text').extract_first()
        item['jk_url'] = trend.css('a').attrib['href']
        yield item
```

程序这就写好了。运行一下

scrapy crawl douban_spider

```
2019-09-20 00:14:12 [scrapy.core.scrapex] DEBUG: Scraped from <200 https://www.douban.com/gallery/>
{'jk_title': 'u'\u79cb\u5929\u5f00\u59cb\u7684\u77ac\u95f4',
 'jk_url': 'https://www.douban.com/gallery/topic/101223/?from=gallery_trend'}
2019-09-20 00:14:12 [scrapy.core.scrapex] DEBUG: Scraped from <200 https://www.douban.com/gallery/>
{'jk_title': 'u'\u7761\u524d\u5c0f\u65f6\u5145\u5b9e\u8ba1\u5212',
 'jk_url': 'https://www.douban.com/gallery/topic/102300/?from=gallery_trend'}
2019-09-20 00:14:12 [scrapy.core.scrapex] DEBUG: Scraped from <200 https://www.douban.com/gallery/>
{'jk_title': 'u'\u54ea\u9996\u8bd7\u662f\u4f60\u7684\u201c\u7cbe\u795e\u9632\u7a7a\u6d1e\u201d\u5ff1',
 'jk_url': 'https://www.douban.com/gallery/topic/102240/?from=gallery_trend'}
2019-09-20 00:14:12 [scrapy.core.scrapex] DEBUG: Scraped from <200 https://www.douban.com/gallery/>
{'jk_title': 'u'\u4f60\u6240\u7ecf\u5386\u7684\u5b9e\u77f8\u53d8\u9769',
```

可以看到确实是能把文章给爬到。

但每次需要输入命令颇为麻烦。

为了简单弄了个main函数主程序【mainCrawlEverything.py】，方便启动和debug
内容如下：

```
# coding: utf-8
from scrapy.cmdline import execute
import sys
import os

sys.path.append(os.path.dirname(os.path.abspath(__file__)))
execute(['scrapy', 'crawl', 'douban_spider']) # 你需要将此处douban_spider替换为你自己的爬名称
```

运行程序，效果和cmd里输入命令效果一致。

4：数据入库：

接下来数据爬到了该入库了。

新建了一个数据库和一张表

```
create database crawl_everything;

drop TABLE `article_info`;
CREATE TABLE `article_info` (
  `article_id` bigint(20) NOT NULL AUTO_INCREMENT COMMENT '文章id',
  `jk_source` varchar(50) DEFAULT NULL COMMENT '文章来源',
  `jk_title` varchar(200) DEFAULT NULL COMMENT '文章标题',
  `jk_url` varchar(200) DEFAULT NULL COMMENT '文章url',
  `jk_status` varchar(50) DEFAULT '0' COMMENT '状态 0:禁用, 1:正常',
  `jk_remark` varchar(500) DEFAULT NULL COMMENT '备注',
  `jk_create` datetime DEFAULT NULL COMMENT '创建时间',
  PRIMARY KEY (`article_id`)
) ENGINE=InnoDB AUTO_INCREMENT=12 DEFAULT CHARSET=utf8 COMMENT='文章相关';
```

修改配置文件settings.py

```
ITEM_PIPELINES = {
    'crawl_everything.pipelines.CrawlEverythingPipeline': 400
}
```

修改配置文件pipelines.py

然后保存数据更改一下

```
import pymysql
import datetime;
import sys;
reload(sys);
sys.setdefaultencoding("utf8")

class CrawlEverythingPipeline(object):
    def __init__(self):
        # 连接MySQL数据库
        self.connect = pymysql.connect(host='localhost', user='root', password='root1234', db='
rawl_everything', port=3307)
        self.cursor = self.connect.cursor()

    def process_item(self, item, spider):
        # 往数据库里面写入数据
        self.cursor.execute(
            'INSERT INTO crawl_everything.article_info( jk_source, jk_title, jk_url, jk_remark, jk_crea
e) '
            'VALUES("{}","{}","{}","{}","{}"):format(item['jk_source'], item['jk_title'],item['jk_url'],item[
k_remark'],datetime.datetime.now().strftime("%Y-%m-%d %H:%M:%S"))
        )
        self.connect.commit()
        return item
        # 关闭数据库

    def close_spider(self, spider):
        self.cursor.close()
        self.connect.close()
```

再次重新运行主函数，爬取到的数据已经入库

article_id	jk_source	jk_title	jk_url	jk_status	jk_remark	jk_create
2	douban_spider	看过的哪部电影让你如坠梦境?	https://www.douban.com/gallery/topic/104410/?from=gallery_trend	(Null)		2019-09-20 01:07:14
3	douban_spider	秋天开始的瞬间	https://www.douban.com/gallery/topic/101223/?from=gallery_trend	(Null)		2019-09-20 01:07:14
4	douban_spider	睡前1小时充实计划	https://www.douban.com/gallery/topic/102300/?from=gallery_trend	(Null)		2019-09-20 01:07:14
5	douban_spider	你所经历的审美变革	https://www.douban.com/gallery/topic/103861/?from=gallery_trend	(Null)		2019-09-20 01:07:14
6	douban_spider	哪首诗是你的“精神防空洞”?	https://www.douban.com/gallery/topic/102240/?from=gallery_trend	(Null)		2019-09-20 01:07:14
7	douban_spider	身边那些美好的白噪音	https://www.douban.com/gallery/topic/104017/?from=gallery_trend	(Null)		2019-09-20 01:07:14
8	douban_spider	偶然发现你以为已经消失的行当	https://www.douban.com/gallery/topic/103172/?from=gallery_trend	(Null)		2019-09-20 01:07:14
9	douban_spider	你都做过哪些情节堪比电影的梦?	https://www.douban.com/gallery/topic/104412/?from=gallery_trend	(Null)		2019-09-20 01:07:14
10	douban_spider	你学校里不合理的制度	https://www.douban.com/gallery/topic/102183/?from=gallery_trend	(Null)		2019-09-20 01:07:14
11	douban_spider	如何含蓄地表达“我想你”?	https://www.douban.com/gallery/topic/102246/?from=gallery_trend	(Null)		2019-09-20 01:07:14

后续在完善:先开门红一个豆瓣。逐步完善

用一个爬虫主类增加了几个网站的爬取,

```
def parse(self, response):
    if response.url == self.start_urls[0]:#豆瓣
        yield from self.crawl_douban(response)
    if response.url == self.start_urls[1]: # 微博
```

```

    yield from self.crawl_weibo(response)
if response.url == self.start_urls[2]: # 百度贴吧
    yield from self.crawl_tieba(response)
if response.url == self.start_urls[3]: # 虎扑
    yield from self.crawl_hupu(response)
if response.url == self.start_urls[4]: # github
    yield from self.crawl_github(response)
if response.url == self.start_urls[5]: # 百度今日热点
    yield from self.crawl_topbaidu(response)
def crawl_douban(self, response):
    trends = response.css('ul.trend > li > a')
    for trend in trends:
        item = CrawlEverythingItem()
        item['jk_source'] = 'douban_spider'
        item['jk_title'] = trend.css('a::text').extract_first()
        item['jk_url'] = trend.css('a').attrib['href']
        item['jk_remark'] = ""
        yield item

def crawl_weibo(self, response):
    trends = response.css('td.td-02 > a')
    for trend in trends:
        item = CrawlEverythingItem()
        item['jk_source'] = 'weibo_spider'
        item['jk_title'] = trend.css('a::text').extract_first()
        href = self.get_weibo_href(trend)
        item['jk_url'] = "https://s.weibo.com" + href
        item['jk_remark'] = ""
        yield item

def crawl_tieba(self, response):
    trends = response.css('div.main > ul > li a')
    for trend in trends:
        item = CrawlEverythingItem()
        item['jk_source'] = 'tieba_spider'
        item['jk_title'] = trend.css('a::text').extract_first()
        item['jk_url'] = trend.css('a').attrib['href']
        item['jk_remark'] = ""
        yield item

def crawl_hupu(self, response):
    trends = response.css('div.list> ul > li > span:nth-child(1) >a')
    for trend in trends:
        item = CrawlEverythingItem()
        item['jk_source'] = 'hupu_spider'
        item['jk_title'] = trend.css('a').attrib['title']
        item['jk_url'] = "https://bbs.hupu.com"+trend.css('a').attrib['href']
        item['jk_remark'] = ""
        yield item

def crawl_github(self, response):
    trends = response.css('div> article.Box-row ')
    for trend in trends:
        item = CrawlEverythingItem()

```

```

item['jk_source'] = 'github_spider'
jk_title=""
re.sub(r'[\*\| " <>:/() 0123456789]', '', jk_title)
jk_title.replace('\n', "").replace(' ', "")
item['jk_title'] = jk_title
item['jk_url'] = "https://github.com" + trend.css('h1>a').attrib['href']
item['jk_remark'] = ""
yield item

```

```

def crawl_topbaidu(self, response):
    trends = response.css('td.keyword >a:nth-child(1) ')
    for trend in trends:
        item = CrawlEverythingItem()
        item['jk_source'] = 'topbaidu_spider'
        item['jk_title'] = trend.css('a::text').extract_first()
        item['jk_url'] = trend.css('a').attrib['href']
        item['jk_remark'] = ""
        yield item

```

```

def get_weibo_href(self,trend):
    href = trend.css('a').attrib['href']
    if href.startswith('javascript:'): ##javascript:void(0)
        href = trend.css('a').attrib['href_to']
    return href

```

增加了一个爬虫主类mainCrawlEveryThing.py

```

# coding: utf-8
from scrapy.cmdline import execute
import sys
import os
sys.path.append(os.path.dirname(os.path.abspath(__file__)))

```

```

execute(['scrapy', 'crawl', 'crawl_everything_spider']) # 你需要将此处的douban_spider替换为你自己的爬虫名称

```

数据库增加一个日期字段，修改了创建时间字段。

git已修改，并上传。

git已上传：https://github.com/jackssybin/crawl_everything