
zyte-spider-templates

Release 0.7.2

Zyte Group Ltd

May 07, 2024

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Spider templates for automatic crawlers.

This library contains [Scrapy](#) spider templates. They can be used out of the box with the Zyte features such as [Zyte API](#) or modified to be used standalone. There is a [sample Scrapy project](#) for this library that you can use as a starting point for your own projects.

INITIAL SETUP

Learn how to get *spider templates* installed and configured on an existing Scrapy project.

Tip: If you do not have a Scrapy project yet, use [zyte-spider-templates-project](#) as a starting template to get started quickly.

1.1 Requirements

- Python 3.8+
- Scrapy 2.11+

For Zyte API features, including AI-powered parsing, you need a [Zyte API](#) subscription.

1.2 Installation

```
pip install zyte-spider-templates
```

1.3 Configuration

In your Scrapy project settings (usually in `settings.py`):

- Update `SPIDER_MODULES` to include `"zyte_spider_templates.spiders"`.
- Configure `scrapy-poet`, and update `SCRAPY_POET_DISCOVER` to include `"zyte_spider_templates.pages"`.

For Zyte API features, including AI-powered parsing, [configure scrapy-zyte-api](#) with `scrapy-poet` integration.

The following additional settings are recommended:

- Set `CLOSESPIDER_TIMEOUT_NO_ITEM` to 600, to force the spider to stop if no item has been found for 10 minutes.
- Set `SCHEDULER_DISK_QUEUE` to `"scrapy.squeues.PickleFifoDiskQueue"` and `SCHEDULER_MEMORY_QUEUE` to `"scrapy.squeues.FifoMemoryQueue"`, for better request priority handling.
- Update `SPIDER_MIDDLEWARES` to include `"zyte_spider_templates.middlewares.CrawlingLogsMiddleware": 1000`, to log crawl data in JSON format for debugging purposes.

- Ensure that `zyte_common_items.ZyteItemAdapter` is also configured:

```
from itemadapter import ItemAdapter
from zyte_common_items import ZyteItemAdapter

ItemAdapter.ADAPTER_CLASSES.appendleft(ZyteItemAdapter)
```

- Update `SPIDER_MIDDLEWARES` to include `"zyte_spider_templates.middlewares.AllowOffsiteMiddleware": 500` and `"scrapy.spidermiddlewares.offsite.OffsiteMiddleware": None`. This allows for crawling item links outside of the domain.

For an example of a properly configured `settings.py` file, see [the one in zyte-spider-templates-project](#).

SPIDER TEMPLATES

Built-in [spider templates](#) use [Zyte API automatic extraction](#) to provide automatic crawling and parsing, i.e. you can run these spiders on any website of the right type to automatically extract the desired structured data.

For example, to extract all products from an e-commerce website, you can run the *e-commerce spider* spider as follows:

```
scrapy crawl ecommerce -a url="https://books.toscrape.com"
```

Spider templates support additional parameters beyond `url`. See the documentation of each specific spider for details.

You can also *customize spider templates* to meet your needs.

2.1 Spider template list

E-commerce

Get products from an e-commerce website.

E-COMMERCE SPIDER TEMPLATE (ECOMMERCE)

3.1 Basic use

```
scrapy crawl ecommerce -a url="https://books.toscrape.com"
```

3.2 Parameters

pydantic model `zyte_spider_templates.spiders.ecommerce.EcommerceSpiderParams`

Config

- **json_schema_extra:** `dict = {'groups': [{'id': 'inputs', 'title': 'Inputs', 'description': 'Input data that determines the start URLs of the crawl.', 'widget': 'exclusive'}]}`

Validators

- `single_input` » all fields

field `crawl_strategy:` `EcommerceCrawlStrategy = EcommerceCrawlStrategy.full`

Determines how the start URL and follow-up URLs are crawled.

Validated by

- `single_input`

field `extract_from:` `ExtractFrom | None = None`

Whether to perform extraction using a browser request (`browserHtml`) or an HTTP request (`httpResponseBody`).

Validated by

- `single_input`

field `geolocation:` `Geolocation | None = None`

ISO 3166-1 alpha-2 2-character string specified in <https://docs.zyte.com/zyte-api/usage/reference.html#operation/extract/request/geolocation>.

Validated by

- `single_input`

field max_requests: `int | None = 100`

The maximum number of Zyte API requests allowed for the crawl.

Requests with error responses that cannot be retried or exceed their retry limit also count here, but they incur in no costs and do not increase the request count in Scrapy Cloud.

Validated by

- `single_input`

field url: `str = ''`

Initial URL for the crawl. Enter the full URL including http(s), you can copy and paste it from your browser.

Example: <https://toscrrape.com/>

Constraints

- `pattern = ^https?:/[^\s]+(:d{1,5})?(/[^\s]*)*(#[^\s]*)?$`

Validated by

- `single_input`

field urls_file: `str = ''`

URL that point to a plain-text file with a list of URLs to crawl, e.g. <https://example.com/url-list.txt>. The linked list must contain 1 URL per line.

Constraints

- `pattern = ^https?:/[^\s]+(:d{1,5})?(/[^\s]*)*(#[^\s]*)?$`

Validated by

- `single_input`

validator single_input » *all fields*

Fields `url` and `urls_file` form a mandatory, mutually-exclusive field group: one of them must be defined, the rest must not be defined.

CUSTOMIZATION

Built-in spider templates can be highly customized:

- *Subclass spider templates* to customize metadata, parameters, and crawling logic.
- *Implement page objects* to override parsing logic for all or some websites, both for navigation and item detail data.

CUSTOMIZING SPIDER TEMPLATES

Subclass a *built-in spider template* to customize its *metadata*, *parameters*, and *crawling logic*.

5.1 Customizing metadata

Spider template metadata is defined using `scrapy-spider-metadata`, and can be redefined or customized in a subclass.

For example, to keep the upstream title but change the description:

```
from zyte_spider_templates import EcommerceSpider

class MySpider(EcommerceSpider):
    name = "my_spider"
    metadata = {
        **EcommerceSpider.metadata,
        "description": "Custom e-commerce spider template.",
    }
```

5.2 Customizing parameters

Spider template parameters are also defined using `scrapy-spider-metadata`, and can be redefined or customized in a subclass as well.

For example, to add a `min_price` parameter and filter out products with a lower price:

```
from decimal import Decimal
from typing import Iterable

from scrapy_poet import DummyResponse
from scrapy_spider_metadata import Args
from zyte_common_items import Product
from zyte_spider_templates import EcommerceSpider
from zyte_spider_templates.spiders.ecommerce import EcommerceSpiderParams

class MyParams(EcommerceSpiderParams):
    min_price: str = "0.00"
```

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```
class MySpider(EcommerceSpider, Args[MyParams]):
    name = "my_spider"

    def parse_product(
        self, response: DummyResponse, product: Product
    ) -> Iterable[Product]:
        for product in super().parse_product(response, product):
            if Decimal(product.price) >= Decimal(self.args.min_price):
                yield product
```

You can also override existing parameters. For example, to hard-code the start URL:

```
from scrapy_spider_metadata import Args
from zyte_spider_templates import EcommerceSpider
from zyte_spider_templates.spiders.ecommerce import EcommerceSpiderParams

class MyParams(EcommerceSpiderParams):
    url: str = "https://books.toscrape.com"

class MySpider(EcommerceSpider, Args[MyParams]):
    name = "my_spider"
```

A mixin class exists for every spider parameter (see *Parameter mixins*), so you can use any combination of them in any order you like in your custom classes, while enjoying future improvements to validation, documentation or UI integration for Scrapy Cloud:

```
from scrapy_spider_metadata import Args
from zyte_spider_templates.params import GeolocationParam, UrlParam

class MyParams(GeolocationParam, UrlParam):
    pass

class MySpider(Args[MyParams]):
    name = "my_spider"
```

5.3 Customizing the crawling logic

The crawling logic of spider templates can be customized as any other Scrapy spider.

For example, you can make a spider that expects a product details URL and does not follow navigation at all:

```
from typing import Iterable

from scrapy import Request
from zyte_spider_templates import EcommerceSpider
```

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```
class MySpider(EcommerceSpider):
    name = "my_spider"

    def start_requests(self) -> Iterable[Request]:
        for request in super().start_requests():
            yield request.replace(callback=self.parse_product)
```

All parsing logic is implemented separately in *page objects*, making it easier to read the code of *built-in spider templates* to modify them as desired.

CUSTOMIZING PAGE OBJECTS

All parsing is implemented using `web-poet` page objects that use `Zyte API automatic extraction` to extract standard items, both for navigation and for item details.

You can implement your own page object classes to override how extraction works for any given combination of URL and item type.

Tip: Make sure the import path of your page objects module is in the `SCRAPY_POET_DISCOVER` setting, otherwise your page objects might be ignored.

6.1 Overriding parsing

To change or fix how a given field is extracted, overriding the value from `Zyte API automatic extraction`, create a page object class, configured to run on some given URLs (`web_poet.handle_urls()`), that defines the logic to extract that field. For example:

Listing 1: `pages/books_toscrape_com.py`

```
import attrs
from number_parser import parse_number
from web_poet import AnyResponse, field, handle_urls
from zyte_common_items import AggregateRating, AutoProductPage

@handle_urls("books.toscrape.com")
@attrs.define
class BooksToScrapeComProductPage(AutoProductPage):
    response: AnyResponse

    @field
    async def aggregateRating(self):
        element_class = self.response.css(".star-rating::attr(class)").get()
        if not element_class:
            return None
        rating_str = element_class.split(" ")[-1]
        rating = parse_number(rating_str)
        if not rating:
            return None
        return AggregateRating(ratingValue=rating, bestRating=5)
```

AutoProductPage and other page objects from `zyte-common-items` prefixed with `Auto` define fields for all standard items that return the value from `Zyte API automatic extraction`, so that you only need to define your new field.

The page object above is decorated with `@attrs.define` so that it can declare a dependency on `AnyResponse` and use that to implement custom parsing logic. You could alternatively use `BrowserHtml` if needed.

6.2 Parsing a new field

To extract a new field for one or more websites:

1. Declare a new item type that extends a `standard item` with your new field. For example:

Listing 2: items.py

```
from typing import Optional

import attrs
from zyte_common_items import Product

@attrs.define
class CustomProduct(Product):
    stock: Optional[int]
```

2. Create a page object class, configured to run for your new item type (`web_poet.pages>Returns`) on some given URLs (`web_poet.handle_urls()`), that defines the logic to extract your new field. For example:

Listing 3: pages/books_toscrape_com.py

```
import re

from web_poet import Returns, field, handle_urls
from zyte_common_items import AutoProductPage

from ..items import CustomProduct

@handle_urls("books.toscrape.com")
class BookPage(AutoProductPage, Returns[CustomProduct]):
    @field
    async def stock(self):
        for entry in await self.additionalProperties:
            if entry.name == "availability":
                match = re.search(r"\d{1,3}(\.|\s)*\d+(?=\s+available\b)", entry.value)
                if not match:
                    return None
                stock_str = re.sub(r"[.\s]", "", match[0])
                return int(stock_str)
        return None
```

3. Create a spider template subclass that requests your new item type instead of the standard one. For example:

Listing 4: spiders/books_toscrape_com.py

```
from scrapy_poet import DummyResponse
from zyte_spider_templates import EcommerceSpider

from ..items import CustomProduct

class BooksToScrapeComSpider(EcommerceSpider):
    name = "books_toscrape_com"
    metadata = {
        **EcommerceSpider.metadata,
        "title": "Books to Scrape",
        "description": "Spider template for books.toscrape.com",
    }

    def parse_product(self, response: DummyResponse, product: CustomProduct):
        yield from super().parse_product(response, product)
```


7.1 Spiders

```
class zyte_spider_templates.BaseSpider(*args: Any, **kwargs: Any)
```

```
class zyte_spider_templates.EcommerceSpider(*args: Any, **kwargs: Any)
```

Yield products from an e-commerce website.

See *EcommerceSpiderParams* for supported parameters.

See also:

E-commerce spider template (ecommerce).

7.2 Pages

```
class zyte_spider_templates.pages.HeuristicsProductNavigationPage(request_url: RequestUrl,
                                                                    product_navigation:
                                                                    ProductNavigation, response:
                                                                    AnyResponse, page_params:
                                                                    PageParams)
```

7.3 Parameter mixins

```
pydantic model zyte_spider_templates.params.ExtractFromParam
```

```
field extract_from: ExtractFrom | None = None
```

Whether to perform extraction using a browser request (browserHtml) or an HTTP request (httpResponseBody).

```
enum zyte_spider_templates.params.ExtractFrom(value)
```

Member Type

str

Valid values are as follows:

```
httpResponseBody: str = <ExtractFrom.httpResponseBody: 'httpResponseBody'>
```

Use HTTP responses. Cost-efficient and fast extraction method, which works well on many websites.

browserHtml: `str` = `<ExtractFrom.browserHtml: 'browserHtml'>`

Use browser rendering. Often provides the best quality.

pydantic model `zyte_spider_templates.params.GeolocationParam`

field geolocation: `Geolocation | None = None`

ISO 3166-1 alpha-2 2-character string specified in <https://docs.zyte.com/zyte-api/usage/reference.html#operation/extract/request/geolocation>.

enum `zyte_spider_templates.params.Geolocation(value)`

Member Type

`str`

Valid values are as follows:

AF: `str` = `<Geolocation.AF: 'AF'>`

AL: `str` = `<Geolocation.AL: 'AL'>`

DZ: `str` = `<Geolocation.DZ: 'DZ'>`

AS: `str` = `<Geolocation.AS: 'AS'>`

AD: `str` = `<Geolocation.AD: 'AD'>`

AO: `str` = `<Geolocation.AO: 'AO'>`

AI: `str` = `<Geolocation.AI: 'AI'>`

AQ: `str` = `<Geolocation.AQ: 'AQ'>`

AG: `str` = `<Geolocation.AG: 'AG'>`

AR: `str` = `<Geolocation.AR: 'AR'>`

AM: `str` = `<Geolocation.AM: 'AM'>`

AW: `str` = `<Geolocation.AW: 'AW'>`

AU: `str` = `<Geolocation.AU: 'AU'>`

AT: `str` = `<Geolocation.AT: 'AT'>`

AZ: `str` = `<Geolocation.AZ: 'AZ'>`

BS: `str` = `<Geolocation.BS: 'BS'>`

BH: `str` = `<Geolocation.BH: 'BH'>`

BD: `str` = `<Geolocation.BD: 'BD'>`

BB: `str` = `<Geolocation.BB: 'BB'>`

BY: `str` = `<Geolocation.BY: 'BY'>`

BE: `str` = `<Geolocation.BE: 'BE'>`

BZ: `str` = `<Geolocation.BZ: 'BZ'>`

BJ: `str` = `<Geolocation.BJ: 'BJ'>`


```
BM: str = <Geolocation.BM: 'BM'>
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OM: str = <Geolocation.OM: 'OM'>
PK: str = <Geolocation.PK: 'PK'>
PW: str = <Geolocation.PW: 'PW'>
PS: str = <Geolocation.PS: 'PS'>
PA: str = <Geolocation.PA: 'PA'>
PG: str = <Geolocation.PG: 'PG'>
PY: str = <Geolocation.PY: 'PY'>
PE: str = <Geolocation.PE: 'PE'>
PH: str = <Geolocation.PH: 'PH'>
PN: str = <Geolocation.PN: 'PN'>
PL: str = <Geolocation.PL: 'PL'>
PT: str = <Geolocation.PT: 'PT'>
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RU: str = <Geolocation.RU: 'RU'>
RW: str = <Geolocation.RW: 'RW'>
RE: str = <Geolocation.RE: 'RE'>
BL: str = <Geolocation.BL: 'BL'>
SH: str = <Geolocation.SH: 'SH'>
KN: str = <Geolocation.KN: 'KN'>
LC: str = <Geolocation.LC: 'LC'>
MF: str = <Geolocation.MF: 'MF'>
PM: str = <Geolocation.PM: 'PM'>
VC: str = <Geolocation.VC: 'VC'>
WS: str = <Geolocation.WS: 'WS'>
SM: str = <Geolocation.SM: 'SM'>
ST: str = <Geolocation.ST: 'ST'>
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SL: str = <Geolocation.SL: 'SL'>
SG: str = <Geolocation.SG: 'SG'>
SX: str = <Geolocation.SX: 'SX'>
SK: str = <Geolocation.SK: 'SK'>
SI: str = <Geolocation.SI: 'SI'>
SB: str = <Geolocation.SB: 'SB'>
SO: str = <Geolocation.SO: 'SO'>
ZA: str = <Geolocation.ZA: 'ZA'>
GS: str = <Geolocation.GS: 'GS'>
SS: str = <Geolocation.SS: 'SS'>
ES: str = <Geolocation.ES: 'ES'>

LK: `str` = <Geolocation.LK: 'LK'>
SD: `str` = <Geolocation.SD: 'SD'>
SR: `str` = <Geolocation.SR: 'SR'>
SJ: `str` = <Geolocation.SJ: 'SJ'>
SE: `str` = <Geolocation.SE: 'SE'>
CH: `str` = <Geolocation.CH: 'CH'>
SY: `str` = <Geolocation.SY: 'SY'>
TW: `str` = <Geolocation.TW: 'TW'>
TJ: `str` = <Geolocation.TJ: 'TJ'>
TZ: `str` = <Geolocation.TZ: 'TZ'>
TH: `str` = <Geolocation.TH: 'TH'>
TL: `str` = <Geolocation.TL: 'TL'>
TG: `str` = <Geolocation.TG: 'TG'>
TK: `str` = <Geolocation.TK: 'TK'>
TO: `str` = <Geolocation.TO: 'TO'>
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TM: `str` = <Geolocation.TM: 'TM'>
TC: `str` = <Geolocation.TC: 'TC'>
TV: `str` = <Geolocation.TV: 'TV'>
TR: `str` = <Geolocation.TR: 'TR'>
UG: `str` = <Geolocation.UG: 'UG'>
UA: `str` = <Geolocation.UA: 'UA'>
AE: `str` = <Geolocation.AE: 'AE'>
GB: `str` = <Geolocation.GB: 'GB'>
US: `str` = <Geolocation.US: 'US'>
UM: `str` = <Geolocation.UM: 'UM'>
UY: `str` = <Geolocation.UY: 'UY'>
UZ: `str` = <Geolocation.UZ: 'UZ'>
VU: `str` = <Geolocation.VU: 'VU'>
VE: `str` = <Geolocation.VE: 'VE'>

VN: `str = <Geolocation.VN: 'VN'>`

VG: `str = <Geolocation.VG: 'VG'>`

VI: `str = <Geolocation.VI: 'VI'>`

WF: `str = <Geolocation.WF: 'WF'>`

EH: `str = <Geolocation.EH: 'EH'>`

YE: `str = <Geolocation.YE: 'YE'>`

ZM: `str = <Geolocation.ZM: 'ZM'>`

ZW: `str = <Geolocation.ZW: 'ZW'>`

AX: `str = <Geolocation.AX: 'AX'>`

pydantic model `zyte_spider_templates.params.MaxRequestsParam`

field `max_requests: int | None = 100`

The maximum number of Zyte API requests allowed for the crawl.

Requests with error responses that cannot be retried or exceed their retry limit also count here, but they incur in no costs and do not increase the request count in Scrapy Cloud.

pydantic model `zyte_spider_templates.params.UrlParam`

field `url: str = ''`

Initial URL for the crawl. Enter the full URL including http(s), you can copy and paste it from your browser.
Example: <https://toscrrape.com/>

Constraints

- `pattern = ^https?:[/[^\s]+(:d{1,5})?(/[^\s]*)*(#[^\s]*)?&?$`

pydantic model `zyte_spider_templates.spiders.ecommerce.EcommerceCrawlStrategyParam`

field `crawl_strategy: EcommerceCrawlStrategy = EcommerceCrawlStrategy.full`

Determines how the start URL and follow-up URLs are crawled.

enum `zyte_spider_templates.spiders.ecommerce.EcommerceCrawlStrategy(value)`

Member Type

`str`

Valid values are as follows:

full: `str = <EcommerceCrawlStrategy.full: 'full'>`

Follow most links within the domain of URL in an attempt to discover and extract as many products as possible.

navigation: `str = <EcommerceCrawlStrategy.navigation: 'navigation'>`

Follow pagination, subcategories, and product detail pages.

Pagination Only is a better choice if the target URL does not have subcategories, or if Zyte API is misidentifying some URLs as subcategories.

pagination_only: `str = <EcommerceCrawlStrategy.pagination_only: 'pagination_only'>`

Follow pagination and product detail pages. Subcategory links are ignored.

CHANGES

8.1 0.7.2 (2024-05-07)

- Implemented *mixin classes for spider parameters*, to improve reuse.
- Improved docs, providing an example about overriding existing parameters when *customizing parameters*, and featuring AnyResponse in the *example about overriding parsing*.

8.2 0.7.1 (2024-02-22)

- The *crawl_strategy* parameter of *EcommerceSpider* now defaults to *full* instead of *navigation*. We also reworded some descriptions of *EcommerceCrawlStrategy* values for clarification.

8.3 0.7.0 (2024-02-09)

- Updated requirement versions:
 - scrapy-poet >= 0.21.0
 - scrapy-zyte-api >= 0.16.0
- With the updated dependencies above, this fixes the issue of having 2 separate Zyte API Requests (*product-Navigation* and *httpResponseBody*) for the same URL. Note that this issue only occurs when requesting product navigation pages.
- Moved `zyte_spider_templates.spiders.ecommerce.ExtractFrom` into `zyte_spider_templates.spiders.base.ExtractFrom`.

8.4 0.6.1 (2024-02-02)

- Improved the `zyte_spider_templates.spiders.base.BaseSpiderParams.url` description.

8.5 0.6.0 (2024-01-31)

- Fixed the `extract_from` spider parameter that wasn't working.
- The “`www.`” prefix is now removed when setting the spider's `allowed_domains`.
- The `zyte_common_items.ProductNavigation.nextPage` link won't be crawled if `zyte_common_items.ProductNavigation.items` is empty.
- `zyte_common_items.Product` items that are dropped due to low probability (*below 0.1*) are now logged in stats: `drop_item/product/low_probability`.
- `zyte_spider_templates.pages.HeuristicsProductNavigationPage` now inherits from `zyte_common_items.AutoProductNavigationPage` instead of `zyte_common_items.BaseProductNavigationPage`.
- Moved e-commerce code from `zyte_spider_templates.spiders.base.BaseSpider` to `zyte_spider_templates.spiders.ecommerce.EcommerceSpider`.
- Documentation improvements.

8.6 0.5.0 (2023-12-18)

- The `zyte_spider_templates.page_objects` module is now deprecated in favor of `zyte_spider_templates.pages`, in line with `web_poet.pages`.

8.7 0.4.0 (2023-12-14)

- Products outside of the target domain can now be crawled using `zyte_spider_templates.middlewares.AllowOffsiteMiddleware`.
- Updated the documentation to also set up `zyte_common_items.ZyteItemAdapter`.
- The `max_requests` spider parameter has now a default value of 100. Previously, it was `None` which was unlimited.
- Improved the description of the `max_requests` spider parameter.
- Official support for Python 3.12.
- Misc documentation improvements.

8.8 0.3.0 (2023-11-03)

- Added documentation.
- Added a middleware that logs information about the crawl in JSON format, `zyte_spider_templates.middlewares.CrawlingLogsMiddleware`. This replaces the old crawling information that was difficult to parse using regular expressions.

8.9 0.2.0 (2023-10-30)

- Now requires `zyte-common-items` \geq `0.12.0`.
- Added a new crawl strategy, “Pagination Only”.
- Improved the request priority calculation based on the metadata probability value.
- CI improvements.

8.10 0.1.0 (2023-10-24)

Initial release.

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