
instascrape

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1.1 Submodules

1.2 instascrape.scrapers.hashtag module

1.2.1 Hashtag

Scrape data from a Hashtag page

class `instascrape.scrapers.hashtag.Hashtag` (*source: Union[str, bs4.BeautifulSoup, Dict[str, Any]]*)

Bases: `instascrape.core._static_scraper._StaticHtmlScraper`

Scraper for an Instagram hashtag page

get_recent_posts (*amt: int = 71*) → `List[instascrape.scrapers.post.Post]`

Return a list of recent posts to the hashtag

Parameters `amt` (*int*) – Amount of recent posts to return

Returns `posts` – List containing the recent 12 posts and their available data

Return type `List[Post]`

scrape (*mapping=None, keys: Optional[List[str]] = None, exclude: Optional[List[str]] = None, headers={'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}, inplace=True, session=None, webdriver=None*) → `None`

Scrape data from the source

Parameters

- **mapping** (`Dict[str, deque]`) – Dictionary of parsing queue's that tell the JSON engine how to process the JSON data
- **keys** (`List[str]`) – List of strings that correspond to desired attributes for scraping

- **exclude** (*List[str]*) – List of strings that correspond to which attributes to exclude from being scraped
- **headers** (*Dict[str, str]*) – Dictionary of request headers to be passed on the GET request
- **inplace** (*bool*) – Determines if data modified inplace or return a new object with the scraped data
- **session** (*requests.Session*) – Session for making the GET request
- **webdriver** (*selenium.webdriver.chrome.webdriver.WebDriver*) – Webdriver for scraping the page, overrides any default or passed session

Returns Optionally returns a scraped instance instead of modifying inplace if inplace arg is True

Return type return_instance

session = `<requests.sessions.Session object>`

to_csv (*fp: str*) → None

Write scraped data to .csv at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

to_dict (*metadata: bool = False*) → Dict[str, Any]

Return a dictionary containing all of the data that has been scraped

Parameters **metadata** (*bool*) – Boolean value that determines if metadata specified in self._METADATA_KEYS will be included in the dictionary.

Returns **data_dict** – Dictionary containing the scraped data

Return type Dict[str, Any]

to_json (*fp: str*) → None

Write scraped data to .json file at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

1.3 instascrape.scrapers.post module

1.3.1 Post

Scrape data from a Post page

class instascrape.scrapers.post.**Post** (*source: Union[str, bs4.BeautifulSoup, Dict[str, Any]]*)

Bases: instascrape.core._static_scraper._StaticHtmlScraper

Scraper for an Instagram post page

SUPPORTED_DOWNLOAD_EXTENSIONS = ['.mp3', '.mp4', '.png', '.jpg']

download (*fp: str*) → None

Download an image or video from a post to your local machine at the given filepath

Parameters **fp** (*str*) – Filepath to download the image to

embed () → str

Return embeddable HTML str for this post

Returns **html_template** – HTML string with embed markup for this Post

Return type str

get_recent_comments () → List[instascrape.scrapers.comment.Comment]

Returns a list of Comment objects that contain data regarding some of the posts comments

Returns comments_arr – List of Comment objects

Return type List[Comment]

scrape (*mapping=None, keys: Optional[List[str]] = None, exclude: Optional[List[str]] = None, headers={'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}, inplace=True, session=None, webdriver=None*) → None

Scrape data from the source

Parameters

- **mapping** (*Dict[str, deque]*) – Dictionary of parsing queue's that tell the JSON engine how to process the JSON data
- **keys** (*List[str]*) – List of strings that correspond to desired attributes for scraping
- **exclude** (*List[str]*) – List of strings that correspond to which attributes to exclude from being scraped
- **headers** (*Dict[str, str]*) – Dictionary of request headers to be passed on the GET request
- **inplace** (*bool*) – Determines if data modified inplace or return a new object with the scraped data
- **session** (*requests.Session*) – Session for making the GET request
- **webdriver** (*selenium.webdriver.chrome.webdriver.WebDriver*) – Webdriver for scraping the page, overrides any default or passed session

Returns Optionally returns a scraped instance instead of modifying inplace if inplace arg is True

Return type return_instance

session = <requests.sessions.Session object>

to_csv (*fp: str*) → None

Write scraped data to .csv at the given filepath

Parameters fp (*str*) – Filepath to write data to

to_dict (*metadata: bool = False*) → Dict[str, Any]

Return a dictionary containing all of the data that has been scraped

Parameters metadata (*bool*) – Boolean value that determines if metadata specified in self._METADATA_KEYS will be included in the dictionary.

Returns data_dict – Dictionary containing the scraped data

Return type Dict[str, Any]

to_json (*fp: str*) → None

Write scraped data to .json file at the given filepath

Parameters fp (*str*) – Filepath to write data to

1.4 instascrape.scrapers.profile module

class `instascrape.scrapers.profile.Profile` (*source: Union[str, bs4.BeautifulSoup, Dict[str, Any]]*)

Bases: `instascrape.core._static_scraper._StaticHtmlScraper`

Scraper for an Instagram profile page

get_posts (*webdriver, amount=None, login_first=False, login_pause=60, max_failed_scroll=300, scrape=False, scrape_pause=5*)

Return Post objects from profile scraped using a webdriver (not included)

Parameters

- **webdriver** (*selenium.webdriver.chrome.webdriver.WebDriver*) – Selenium webdriver for rendering JavaScript and loading dynamic content
- **amount** (*int*) – Amount of posts to return, default is all of them
- **login_first** (*bool*) – Start on login page to allow user to manually login to Instagram
- **login_pause** (*int*) – Length of time in seconds to pause before starting scrape
- **max_failed_scroll** (*int*) – Maximum amount of scroll attempts before stopping if scroll is stuck
- **scrape** (*bool*) – Scrape posts with the webdriver prior to returning
- **scrape_pause** (*int*) – Time in seconds between each scrape

Returns `posts` – Post objects gathered from the profile page

Return type `List[Post]`

get_recent_posts (*amt: int = 12*) → `List[instascrape.scrapers.post.Post]`

Return a list of the profiles recent posts. Max available for return is 12.

Parameters `amt` (*int*) – Amount of recent posts to return

Returns `posts` – List containing the recent 12 posts and their available data

Return type `List[Post]`

scrape (*mapping=None, keys: Optional[List[str]] = None, exclude: Optional[List[str]] = None, headers={'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}*, *inplace=True, session=None, webdriver=None*) → `None`

Scrape data from the source

Parameters

- **mapping** (*Dict[str, deque]*) – Dictionary of parsing queue's that tell the JSON engine how to process the JSON data
- **keys** (*List[str]*) – List of strings that correspond to desired attributes for scraping
- **exclude** (*List[str]*) – List of strings that correspond to which attributes to exclude from being scraped
- **headers** (*Dict[str, str]*) – Dictionary of request headers to be passed on the GET request
- **inplace** (*bool*) – Determines if data modified inplace or return a new object with the scraped data
- **session** (*requests.Session*) – Session for making the GET request

- **webdriver** (*selenium.webdriver.chrome.webdriver.WebDriver*) – Webdriver for scraping the page, overrides any default or passed session

Returns Optionally returns a scraped instance instead of modifying inplace if inplace arg is True

Return type return_instance

session = <requests.sessions.Session object>

to_csv (*fp: str*) → None

Write scraped data to .csv at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

to_dict (*metadata: bool = False*) → Dict[str, Any]

Return a dictionary containing all of the data that has been scraped

Parameters **metadata** (*bool*) – Boolean value that determines if metadata specified in self._METADATA_KEYS will be included in the dictionary.

Returns **data_dict** – Dictionary containing the scraped data

Return type Dict[str, Any]

to_json (*fp: str*) → None

Write scraped data to .json file at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

1.5 instascrape.scrapers.reel module

class instascrape.scrapers.reel.**Reel** (*source: Union[str, bs4.BeautifulSoup, Dict[str, Any]]*)

Bases: *instascrape.scrapers.post.Post*

Scraper for an Instagram reel

SUPPORTED_DOWNLOAD_EXTENSIONS = ['.mp3', '.mp4', '.png', '.jpg']

download (*fp: str*) → None

Download an image or video from a post to your local machine at the given filepath

Parameters **fp** (*str*) – Filepath to download the image to

embed () → str

Return embeddable HTML str for this post

Returns **html_template** – HTML string with embed markup for this Post

Return type str

get_recent_comments () → List[instascrape.scrapers.comment.Comment]

Returns a list of Comment objects that contain data regarding some of the posts comments

Returns **comments_arr** – List of Comment objects

Return type List[Comment]

scrape (*mapping=None, keys: Optional[List[str]] = None, exclude: Optional[List[str]] = None, headers={'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}, inplace=True, session=None, webdriver=None*) → None

Scrape data from the source

Parameters

- **mapping** (*Dict[str, deque]*) – Dictionary of parsing queue’s that tell the JSON engine how to process the JSON data
- **keys** (*List[str]*) – List of strings that correspond to desired attributes for scraping
- **exclude** (*List[str]*) – List of strings that correspond to which attributes to exclude from being scraped
- **headers** (*Dict[str, str]*) – Dictionary of request headers to be passed on the GET request
- **inplace** (*bool*) – Determines if data modified inplace or return a new object with the scraped data
- **session** (*requests.Session*) – Session for making the GET request
- **webdriver** (*selenium.webdriver.chrome.webdriver.WebDriver*) – Webdriver for scraping the page, overrides any default or passed session

Returns Optionally returns a scraped instance instead of modifying inplace if inplace arg is True

Return type return_instance

session = <requests.sessions.Session object>

to_csv (*fp: str*) → None

Write scraped data to .csv at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

to_dict (*metadata: bool = False*) → Dict[str, Any]

Return a dictionary containing all of the data that has been scraped

Parameters **metadata** (*bool*) – Boolean value that determines if metadata specified in self._METADATA_KEYS will be included in the dictionary.

Returns **data_dict** – Dictionary containing the scraped data

Return type Dict[str, Any]

to_json (*fp: str*) → None

Write scraped data to .json file at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

1.6 instascrape.scrapers.location module

class instascrape.scrapers.location.**Location** (*source: Union[str, bs4.BeautifulSoup, Dict[str, Any]]*)

Bases: instascrape.core._static_scraper._StaticHtmlScraper

Scraper for an Instagram profile page

get_recent_posts (*amt: int = 24*) → List[instascrape.scrapers.post.Post]

Return a list of recent posts to the location

Parameters **amt** (*int*) – Amount of recent posts to return

Returns **posts** – List containing the recent 24 posts and their available data

Return type List[Post]

scrape (*mapping=None, keys: Optional[List[str]] = None, exclude: Optional[List[str]] = None, headers={'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}*, *inplace=True, session=None, webdriver=None*) → None
Scrape data from the source

Parameters

- **mapping** (*Dict[str, deque]*) – Dictionary of parsing queue’s that tell the JSON engine how to process the JSON data
- **keys** (*List[str]*) – List of strings that correspond to desired attributes for scraping
- **exclude** (*List[str]*) – List of strings that correspond to which attributes to exclude from being scraped
- **headers** (*Dict[str, str]*) – Dictionary of request headers to be passed on the GET request
- **inplace** (*bool*) – Determines if data modified inplace or return a new object with the scraped data
- **session** (*requests.Session*) – Session for making the GET request
- **webdriver** (*selenium.webdriver.chrome.webdriver.WebDriver*) – Webdriver for scraping the page, overrides any default or passed session

Returns Optionally returns a scraped instance instead of modifying inplace if inplace arg is True

Return type return_instance

session = <requests.sessions.Session object>

to_csv (*fp: str*) → None

Write scraped data to .csv at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

to_dict (*metadata: bool = False*) → Dict[str, Any]

Return a dictionary containing all of the data that has been scraped

Parameters **metadata** (*bool*) – Boolean value that determines if metadata specified in self._METADATA_KEYS will be included in the dictionary.

Returns **data_dict** – Dictionary containing the scraped data

Return type Dict[str, Any]

to_json (*fp: str*) → None

Write scraped data to .json file at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

1.7 instascrape.scrapers.igtv module

class instascrape.scrapers.igtv.**IGTV** (*source: Union[str, bs4.BeautifulSoup, Dict[str, Any]]*)

Bases: *instascrape.scrapers.post.Post*

Scraper for an IGTV post

SUPPORTED_DOWNLOAD_EXTENSIONS = ['.mp3', '.mp4', '.png', '.jpg']

download (*fp: str*) → None

Download an image or video from a post to your local machine at the given filepath

Parameters **fp** (*str*) – Filepath to download the image to

embed () → str

Return embeddable HTML str for this post

Returns **html_template** – HTML string with embed markup for this Post

Return type str

get_recent_comments () → List[instascrape.scrapers.comment.Comment]

Returns a list of Comment objects that contain data regarding some of the posts comments

Returns **comments_arr** – List of Comment objects

Return type List[Comment]

scrape (*mapping=None, keys: Optional[List[str]] = None, exclude: Optional[List[str]] = None, headers={'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}, inplace=True, session=None, webdriver=None*) → None

Scrape data from the source

Parameters

- **mapping** (*Dict[str, deque]*) – Dictionary of parsing queue's that tell the JSON engine how to process the JSON data
- **keys** (*List[str]*) – List of strings that correspond to desired attributes for scraping
- **exclude** (*List[str]*) – List of strings that correspond to which attributes to exclude from being scraped
- **headers** (*Dict[str, str]*) – Dictionary of request headers to be passed on the GET request
- **inplace** (*bool*) – Determines if data modified inplace or return a new object with the scraped data
- **session** (*requests.Session*) – Session for making the GET request
- **webdriver** (*selenium.webdriver.chrome.webdriver.WebDriver*) – Webdriver for scraping the page, overrides any default or passed session

Returns Optionally returns a scraped instance instead of modifying inplace if inplace arg is True

Return type return_instance

session = <requests.sessions.Session object>

to_csv (*fp: str*) → None

Write scraped data to .csv at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

to_dict (*metadata: bool = False*) → Dict[str, Any]

Return a dictionary containing all of the data that has been scraped

Parameters **metadata** (*bool*) – Boolean value that determines if metadata specified in self._METADATA_KEYS will be included in the dictionary.

Returns **data_dict** – Dictionary containing the scraped data

Return type Dict[str, Any]

to_json (*fp: str*) → None

Write scraped data to .json file at the given filepath

Parameters **fp** (*str*) – Filepath to write data to

1.8 instascrape.scrapers.scrape_tools module

`instascrape.scrapers.scrape_tools.determine_json_type` (*json_data: Union[Dict[str, Any], str]*) → str

Return the type of Instagram page based on the JSON data parsed from source

Parameters **json_data** (*Union[JSONDict, str]*) – JSON data that will be checked and parsed to determine what type of page the program is looking at (Profile, Post, Hashtag, etc)

Returns **instagram_type** – Name of the type of page the program is currently parsing or looking at

Return type str

`instascrape.scrapers.scrape_tools.flatten_dict` (*json_dict: Dict[str, Any]*) → Dict[str, Any]

Returns a flattened dictionary of data

Parameters **json_dict** (*dict*) – Input dictionary for flattening

Returns **flattened_dict** – Flattened dictionary

Return type dict

`instascrape.scrapers.scrape_tools.json_from_html` (*source: Union[str, BeautifulSoup], as_dict: bool = True, flatten=False*) → Union[Dict[str, Any], str]

Return JSON data parsed from Instagram source HTML

Parameters

- **source** (*Union[str, BeautifulSoup]*) – Instagram HTML source code to parse the JSON from
- **as_dict** (*bool = True*) – Return JSON as dict if True else return JSON as string
- **flatten** (*bool*) – Flatten the dictionary prior to returning it

Returns **json_data** – Parsed JSON data from the HTML source as either a JSON-like dictionary or just the string serialization

Return type Union[JSONDict, str]

`instascrape.scrapers.scrape_tools.json_from_soup` (*source, as_dict: bool = True, flatten=False*)

`instascrape.scrapers.scrape_tools.json_from_url` (*url: str, as_dict: bool = True, headers={'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}*, *flatten=False*) → Union[Dict[str, Any], str]

Return JSON data parsed from a provided Instagram URL

Parameters

- **url** (*str*) – URL of the page to get the JSON data from
- **as_dict** (*bool = True*) – Return JSON as dict if True else return JSON as string
- **headers** (*Dict[str, str]*) – Dictionary of request headers to be passed on the GET request
- **flatten** (*bool*) – Flatten the dictionary prior to returning it

Returns json_data – Parsed JSON data from the URL as either a JSON-like dictionary or just the string serialization

Return type Union[JSONDict, str]

`instascrape.scrapers.scrape_tools.parse_data_from_json` (*json_dict*, *map_dict*, *default_value=nan*)

Parse data from a JSON dictionary using a mapping dictionary that tells the program how to parse the data

`instascrape.scrapers.scrape_tools.scrape_posts` (*posts: List[Post]*, *session: Optional[requests.sessions.Session] = None*, *webdriver: Optional[selenium.webdriver.chrome.webdriver.WebDriver] = None*, *limit: Union[int, datetime.datetime, None] = None*, *headers: dict = {'user-agent': 'Mozilla/5.0 (Linux; Android 6.0; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.88 Mobile Safari/537.36 Edg/87.0.664.57'}*, *pause: int = 5*, *on_exception: str = 'raise'*, *silent: bool = True*, *inplace: bool = False*)

1.9 Module contents

Primary API scraper tools

CHAPTER 2

instascrape.exceptions package

2.1 Submodules

2.2 instascrape.exceptions.exceptions module

exception `instascrape.exceptions.exceptions.InstagramLoginRedirectError` (*message='Instagram*

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made
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Exception that indicates Instagram is redirecting away from the page that should be getting scraped. Can be remedied by logging into Instagram.

exception `instascape.exceptions.exceptions.MissingCookiesWarning`

Bases: `UserWarning`

exception `instascape.exceptions.exceptions.MissingSessionIDWarning`

Bases: `UserWarning`

exception `instascape.exceptions.exceptions.WrongSourceError` (*message='Wrong input source, use the correct class'*)

Bases: `Exception`

Exception that indicates user passed the wrong source type to the scraper. An example is passing a URL for a hashtag page to a Profile.

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