# bln

unknown

Sep 20, 2023

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Python client for the biglocalnews.org API

## CHAPTER

# ONE

# INSTALLATION

Use pip or pipenv to install the Python library and command-line interface.

pipenv install bln

### CHAPTER

# TWO

# DOCUMENTATION

# 2.1 Getting started

### Sections

#### • Setup

• Working with projects

• Working with files

### 2.1.1 Setup

#### Installation

The Python SDK can be installed using pip.

pip install bln

#### **Getting an API Key**

API keys can be generated at https://biglocalnews.org/.

- 1. Log into Big Local News using your Google account.
- 2. Expand the Developer menu item in the left sidebar.
- 3. Click Manage Keys.
- 4. Generate a key and copy it to the clipboard.
- 5. Export the token to your environment

export BLN\_API\_TOKEN = "<Paste your API Key here>"

#### Initializing the SDK client

The client is what will handle calls to the Big Local News API. To set up it you must authorize the client using your API key.

```
from bln import Client
client = Client()
```

### 2.1.2 Working with projects

#### **Creating a project**

To create a project, use the client's createProject method. The only argument required to create a project is a name. However, it is helpful to include a description. The createProject method will return a dictionary of project metadata if it is successful and None if it fails.

```
project_name = "Big Local News SDK Demo Project"
project_description = "This is a sample project to show users how the SDK works"
```

project = client.createProject(project\_name, description=project\_description)

#### Get metadata for an existing project

Helper methods can assist you with selecting projects by name or id. It will return one and only one project.

```
client.get_project_by_name("Big Local News SDK Demo Project")
client.get_project_by_id(project_id)
```

The client's search\_projects method can be used to for more complex queries. It takes a lambda function that returns True or False based on whether or not the project metadata meets the search criteria. The search\_projects method will return a list of project metadata for those projects matching the search query.

client.search\_projects(lambda project: "SDK" in project["description"])

#### Updating project metadata

The client's updateProject method is used to edit project metadata. It takes the project's ID as a required argument and optional keyword arguments to update the metadata. The method will return the updated project metadata.

client.updateProject(project\_id, name=new\_name, description=new\_description)

#### bln

#### **Deleting a project**

Use the client's deleteProject method to delete a project. The method requires a project ID as it's sole argument.

WARNING: This process is irreversible. Use with caution.

```
client.deleteProject(project_id)
```

### 2.1.3 Working with files

The SDK client has a host of methods available for working with files. All of the methods will require a project ID as an argument.

#### Uploading

The client has two different methods for file uploads - one for a single file and a second for batch uploads.

#### A single file

client.upload\_file(project\_id, "./data/demo\_a.csv")

#### **Multiple files**

The SDK client also has an upload\_files method which takes a list of files as an argument.

```
client.upload_files(project_id, files_to_upload)
```

#### Viewing files in a project

```
# Get the first project returned from a search
project = client.search_projects(lambda project: project["id"] == project_id)[0]
project["files"]
Γ
    {
        "createdAt": "2022-01-12T23:40:44.443000+00:00",
        "name": "demo_a.csv",
        "tags": [],
        "updatedAt": "2022-01-12T23:40:44.443000+00:00",
   },
    {
        "createdAt": "2022-01-12T23:40:46.372000+00:00",
        "name": "demo_b.csv",
        "tags": [],
        "updatedAt": "2022-01-12T23:40:46.372000+00:00",
   },
]
```

#### Downloading a file

The client's download\_file takes three arguments: project ID, filename and an optional output directory. If an output directory is not specified, the client will download to the current working directory.

```
client.download_file(project_id, "demo_a.csv", output_dir="./data")
```

# 2.2 pandas extensions

The bln package includes extensions for reading and writing to biglocalnews.org with the pandas data analysis library.

They can be easily imported into your environment. First import pandas as usual.

```
from pandas import pd
```

Then import the Big Local News package and connect it with your pd module.

```
import bln
```

```
bln.pandas.register(pd)
```

Your standard pd object now contains a set of custom methods for interacting with biglocalnews.org. This is accomplished by "monkey patching" the pandas library.

### 2.2.1 Reading data

You can read in files from biglocalnews.org as a pandas dataframe using the read\_bln function. It requires three inputs:

- 1. The unique identifier of the biglocalnews.org project where the file is stored
- 2. The name of the file within the biglocalnews.org project
- 3. An API key from biglocalnews.org with permission to read from the project.

df = pd.read\_bln(your\_project\_id, your\_file\_name, your\_api\_token)

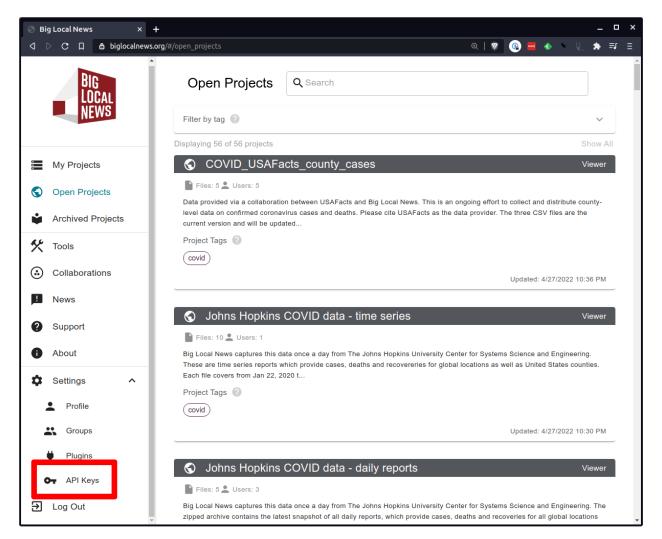
You can find the project id by visiting the project on biglocalnews.org and pulling the long hash from the URL. Here's the WARN Act Notices open project.

📀 Big Local News 🛛 🖌 🗕	,
	JvamVjdDpiZGM5NmU1M51kMzBhLTRlYTctODY4Yi04ZGI4N2RjMzQ1ODI= 🛛 🍳 🛛 🦉 🔞 📼 🚸 🔨 📗 🌧 🖅 🚍
L	×
Project Name *	
WARN Act Notice	S
	Contact Email *
email 👻	biglocalnews@stanford.edu
Description —	
	ins data on layoff/furlough notifications gathered by Big Local News from websites. The federal government mandates advanced reporting of
	ain conditions as part of the Worker Adjustment and Retraining
Notification Act (W	(ARN). ▼
FILES	LUSERS CROUPS
	Drag and drop files or click here to upload
	·
additi	ons.csv
	More Actions 👻
ak.csv	,
	More Actions 👻

The name of the file can be found in the Files panel. Here's the Iowa data stored in ia.csv.

🕤 Big Local News	× +	_
	calnews.org/#/project/UHJvamVjdDpiZGM5NmU1M51kMzBhLTRlYTctODY4Yi04ZGI4N2RjMzQ1ODI= 🔍 🍳 🛛 🔞 🧮 🔌	х Ц 🗯 ≡л Е
		× .
	This project contains data on layoff/furlough notifications gathered by Big Local News from state government websites. The federal government mandates advanced reporting of layoffs under certain conditions as part of the Worker Adjustment and Retraining Notification Act (WARN).	
	FILES USERS CROUPS CANADAGE	
	Drag and drop files or click here to upload	
	ga.csv    More Actions ~	
	ia.csv	
	More Actions 👻	
	More Actions 👻	
	il.csv	
		-

You can get an API key by visiting the link in the Settings menu.



If the token is set to the BLN\_API\_TOKEN environment variable, it doesn't have to be passed into the read\_bln function.

Combine the entire example together and you can access the Iowa data file from the WARN Act Notices project with the following:

```
import pandas as pd
import bln
bln.pandas.register(pd)
project_id = "UHJvamVjdDpiZGM5NmU1MS1kMzBhLTRlYTctODY4Yi04ZGI4N2RjMzQ10DI="
file_name = "ia.csv"
df = pd.read_bln(project_id, file_name)
```

Now you've got a dataframe to work with.

df.head()

	Company	Address Line 1	City
0	SSP America, Inc.	5800 Fleur Drive	Des Moines
1	Premier Linen & Drycleaning	461 West 9th Street	Dubuque
			(continues on next page)

(continued from previous page)

			(commaca nom press	pub pube)
2	Caterpillar, Inc.	1003 Miller Street	Elkader	
3	General Dynamics Information Technology	2400 Oakdale Boulevard	Coralville	
4	Alorica, Inc.	2829 Westown Parkway	West Des Moines	

The read\_bln function will also accept any of the standard configuration options offered by pandas reader functions, like read\_csv. Here's an example using the parse\_dates input.

```
df = pd.read_bln(project_id, file_name, parse_dates=["Notice Date"])
```

### 2.2.2 Writing data

You can write a file to biglocalnews.org using our custom to\_bln dataframe accessor. Like the read\_bln method, it requires three input:

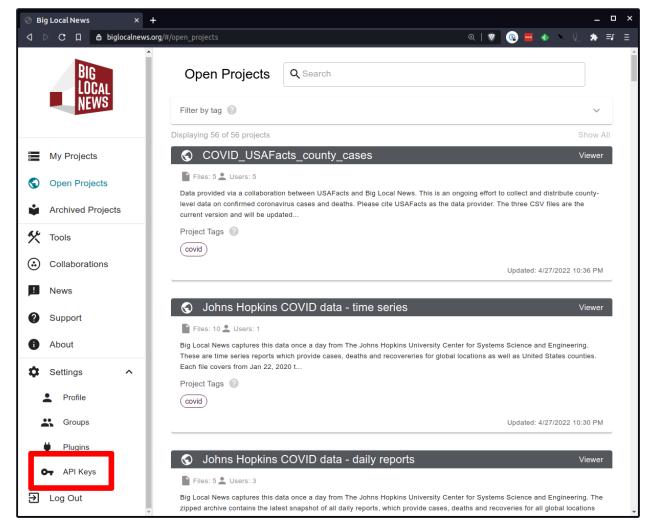
- 1. The unique identifier of the biglocalnews.org project where the file will be stored
- 2. The name of the file to create within the biglocalnews.org project
- 3. An API key from biglocalnews.org with permission to read from the project.

df.to\_bln(your\_project\_id, your\_file\_name, your\_api\_token)

You can find the project id by visiting the project on biglocalnews.org and pulling the long hash from the URL. Here's the WARN Act Notices open project.

☉ Big Local News × +	+	_
A ▷ C □ ▲ biglocalnews.or	org/#/proj :t/UHJvamVjdDpiZGM5NmU1MS1kMzBhLTRlYTctODY4Yi04ZGI4N2RjMzQ1ODI= 🔍 🔍 🛛 😨 🚳 🐜 🚛 🤹	⊧≡≀ ≡
		×
- Project	ct Name *	^
WAR	RN Act Notices	
email	il  Contact Email* biglocalnews@stanford.edu	
state layoff	project contains data on layoff/turlough notifications gathered by Big Local News from a government websites. The federal government mandates advanced reporting of ffs under certain conditions as part of the Worker Adjustment and Retraining fication Act (WARN).	
6	FILES USERS CROUPS CANAGE	
	Drag and drop files or click here to upload	
	additions.csv	
	ak.csv	
-	More Actions 👻	-

You can name the file whatever you like. The filenames must end with .csv, .json, .xls, or .xlsx. The extensions are mapped to the appropriate pandas writer function.



You can get an API key by visiting the link in the Settings menu.

If the token is set to the BLN\_API\_TOKEN environment variable, it doesn't have to be passed into the read\_bln function.

Combine the entire example together and you can upload a data file from your computer to WARN Act Notices project with the following:

```
import pandas as pd
import bln
bln.pandas.register(pd)
df = pd.read_csv("my-local-file.csv")
project_id = "UHJvamVjdDpiZGM5NmU1MS1kMzBhLTRlYTct0DY4Yi04ZGI4N2RjMzQ10DI="
file_name = "my-uploaded-file.csv"
df.to_bln(project_id, file_name)
```

The to\_bln method will also accept any of the standard configuration options offered by pandas writer functions, like to\_csv. Here's an example using the index input.

```
df.to_bln(project_id, file_name, index=False)
```

# 2.3 Contributing

This documents guides you through how to make improvements to the bln library by installing its source code and suggesting improvements.

Sections	
• Create a fork	
• Clone the fork	
Install dependencies	
• Create a branch	
Perform you work	
• Run tests	
Push to your fork	
• Send a pull request	

### 2.3.1 Create a fork

Start by visiting our project's repository at github.com/biglocalnews/bln-python-client and creating a fork. You can learn how from GitHub's documentation.

### 2.3.2 Clone the fork

Now you need to make a copy of your fork on your computer using GitHub's cloning system. There are several methods to do this, which are covered in the GitHub documentation.

A typical terminal command will look something like the following, with your username inserted in the URL.

git clone git@github.com:your-username/bln-python-client.git

or

gh repo clone your-username/bln-python-client

### 2.3.3 Install dependencies

You should change directory into folder where you code was downloaded.

cd bln-python-client

The pipenv package manager can install all of the Python tools necessary to run and test our code. Since you'll be using the special tools we need as part of code development, add the --dev flag.

```
pipenv install --dev
```

Now install pre-commit to run a battery of automatic quick fixes against your work.

```
pipenv run pre-commit install
```

#### 2.3.4 Create a branch

Next will we create a branch in your local repository where you an work without disturbing the mainline of code.

You can do this by running a line of code like the one below. You should substitute a branch that summarizes the work you're trying to do.

git checkout -b your-branch-name

For instance, if you were trying to fix an upload bug, you might name it something like this:

```
git checkout-b upload-bug-fix
```

#### 2.3.5 Perform you work

Now you do your thing. Make the necessary changes to the code until you get the job done.

### 2.3.6 Run tests

Before you submit your work for inclusion in the project, you should run our tests to identify bugs. Testing is implemented via pytest. Run the tests with the following.

make test

If any errors, arise, carefully read the traceback message to determine what needs to be repaired.

#### 2.3.7 Push to your fork

Once you're happy with your work and the tests are passing, you should commit your work and push it to your fork.

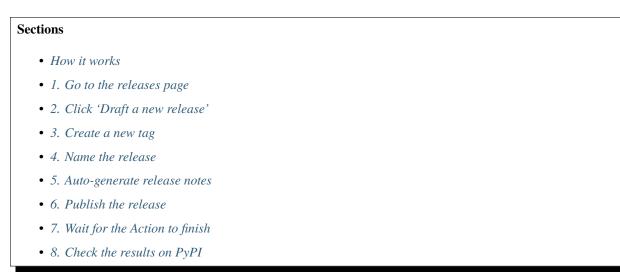
```
git commit -am "Describe your work here"
git push origin your-branch-name
```

### 2.3.8 Send a pull request

The final step is to submit a pull request to the main respository, asking the maintainers to consider integrating your patch. GitHub has a short guide that can walk you through the process. You should tag your issue number in the request so that they are linked in GitHub's system.

# 2.4 Releasing

How to release a new version of the bln module to the Python Package Index.



### 2.4.1 How it works

Our release process is automated as a continuous deployment via the GitHub Actions framework. The logic that governs the process is stored in the workflows directory.

That means that everything necessary to make a release can be done with a few clicks on the GitHub website. All you need to do is make a tagged release at biglocalnews/bln-python-client/releases, then wait for the computers to handle the job.

Here's how it's done, step by step. The screenshots are from a different repository, but the process is the same.

### 2.4.2 1. Go to the releases page

The first step is to visit our repository's homepage and click on the "releases" headline in the right rail.

~	C O A	https://github.com/biglocalnews/warn-scra	per	<b>公</b>
Dig Corest Corest	Search or jump to Jlocalnews / warn- ode   o Issues (49)	•	⊙ Watch	
	nain - 3º 24 branch palewire Update and ren		le - Code -	About s Command-line interface for downloading WARN Act notices of qualified plant
	.github/workflows	Update and rename tests.yml to continuous-d Cut bln-etl from the package	21 minutes ago 3 hours ago	closings and mass layoffs from state government websites
-	tests	Docstrings fixes in tests	3 days ago	warn-scraper.readthedocs.io     python cli news etl labor
	warn	Cut crufty import	3 hours ago	journalism open-data economics
۵	.gitignore	Added vim patterns to gitignore	5 days ago	data-journalism warn
ß	LICENSE	Create LICENSE	6 days ago	🛱 Readme
ß	MANIFEST.in	Update MANIFEST.in	1 hour ago	
ß	Makefile	Pipfile fix	3 hours ago	<ul> <li>✓ 4 watching</li> </ul>
Ľ	Pipfile	Cut bln-etl from the package	3 hours ago	<b>양 0</b> forks
ß	Pipfile.lock	Cut bln-etl from the package	3 hours ago	
Ľ	README.md	Links	3 days ago	Releases 2
ß	setup.cfg	Docstrings fixes in tests	3 days ago	○ 1.0.1 (Latest)
ß	setup.py	Fixes #310	1 hour ago	1 hour ago + 1 release

### 2.4.3 2. Click 'Draft a new release'

Note the number of the latest release. Click the "Draft a new release" button in the upper-right corner. If you don't see this button, you do not have permission to make a release. Only the maintainers of the repository are able to release new code.

<b>Q</b> Releases · biglocalnev	vs/v× +	
$\rightarrow$ C O	A https://github.com/biglocalnews/warn-scraper/releases	☆ 🛛 🕾
Search or jump to	. Pull requests Issues Marketplace Explore	<u> </u>
🛱 biglocalnews/wa	m-scraper Public 💿 Watch 4 👻	약 Fork 0 ☆ Star 2 →
<> Code	49 11 Pull requests Q Discussions () Actions () Security	🗠 Insights 🛛 …
Releases Tags	Draft a new release	Find a release
1 hour ago ▶ palewire ♦ 1.0.1 • 5e1fb96 ♦	<b>1.0.1</b> (Latest) Full Changelog: 1.0.01.0.1	ℓ 1
Compare 🖕	• Assets [2]	
	3 Source code (zip)	
	Source code (tar.gz)	
	I person reacted     I	
1 hour ago P palewire	1.0.0	ℓ 1
<ul> <li>➡ 1.0.0</li> <li>➡ a1046c5 ⊘</li> </ul>	Update MANIFEST.in	
Compare 🗸	► Assets (2)	

### 2.4.4 3. Create a new tag

Think about how big your changes are and decide if you're a major, minor or patch release.

All version numbers should feature three numbers separated by the periods, like 1.0.1. If you're making a major release that isn't backwards compatible, the latest release's first number should go up by one. If you're making a minor release by adding a feature or major a large change, the second number should go up. If you're only fixing bugs or making small changes, the third number should go up.

If you're unsure, review the standards defined at semver.org to help make a decision. In the end don't worry about it too much. Our version numbers don't need to be perfect. They just need to be three numbers separated by periods.

Once you've settled on the number for your new release, click on the "Choose a tag" pull down.

O New release · biglocalnev ×     +	- 0
	☆ ♡
Search or jump to  Pull requests Issues Marketplace Explore	<u>↓</u> + • P •
Diglocalnews / warn-scraper (Public)	양 Fork 0 ☆ Star 2 🗸
<> Code ⊙ Issues 49 \$* Pull requests ♀ Discussions ⊙ Actions ⑦ Security	🗠 Insights 🛛
Releases Tags	
Choose a tag - provide the second s	Tagging suggestions It's common practice to prefix your version names with the letter v. Some good tag names might be
Release title	v1.0.0 or v2.3.4.
Write Preview	If the tag isn't meant for production use, add a pre-release version
$H  B  I  \vdash \leftrightarrow \mathscr{O}  \vdash  \vdash \blacksquare  \boxdot  \textcircled{Q}  \bigcirc  \downarrow \leftarrow \qquad +  Auto-generate release notes$	after the version name. Some good pre-release versions might
Describe this release	be v0.2.0-alpha or v5.9-beta.3.
	Semantic versioning If you're new to releasing software, we highly recommend reading about semantic versioning.
Attach files by dragging & dropping, selecting or pasting them.	
$\checkmark$ Attach binaries by dropping them here or selecting them.	
□ This is a pre-release	

Enter your version number into the box. Then click the "Create new tag" option that appears.

O New release ⋅ biglocalnev ×     +	- 0	×
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Search or jump to / Pull requests Issues Marketplace Explore	<b>(₽</b> + <b>• • •</b>	
Diglocalnews / warn-scraper (Public)	약 Fork 0 ☆ Star 2 →	
<> Code  O Issues 49  Pull requests  D Discussions  O Actions  O Security	🗠 Insights 🛛 …	
Releases       Tags         Choose a tag       *         1.0.2       *         + Create new tag: 1.0.2 on publish       *         H B I =        >         Ø Çi & *       *         Auto-generate release notes       *	Tagging suggestions         It's common practice to prefix your         version names with the letter v.         Some good tag names might be         v1.0.0 or v2.3.4.         If the tag isn't meant for production         use, add a pre-release version         after the version name. Some         good pre-release versions might         be v0.2.0-alpha or v5.9-beta.3.         Semantic versioning         If you're new to releasing software,         we highly recommend reading         about semantic versioning.	
Attach files by dragging & dropping, selecting or pasting them.		
$\downarrow$ Attach binaries by dropping them here or selecting them.		
This is a pre-release We'll point out that this release is identified as non-production ready.		

# 2.4.5 4. Name the release

Enter the same number into the "Release title" box.

O     New release ⋅ biglocalnev ×     +	- 🗆 😣
$\leftrightarrow$ $\rightarrow$ C O A https://github.com/biglocalnews/warn-scraper/releases/new	☆ 🗢 =
Search or jump to / Pull requests Issues Marketplace Explore	<i>Ļ</i> ° +• ₽•
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Releases Tags	
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1.0.2	Some good tag names might be v1.0.0 or v2.3.4.
Wile Fleview	If the tag isn't meant for production
$H B I \stackrel{\sim}{\underset{\sim}{\underset{\sim}{\underset{\sim}{\underset{\sim}{\underset{\sim}{\underset{\sim}{\underset{\sim}{$	use, add a pre-release version after the version name. Some good pre-release versions might be v0.2.0-alpha or v5.9-beta.3.
Describe this release	
	Semantic versioning If you're new to releasing software, we highly recommend reading about semantic versioning.
Attach files by dragging & dropping, selecting or pasting them.	
$\checkmark$ Attach binaries by dropping them here or selecting them.	
This is a pre-release We'll point out that this release is identified as non-production ready.	

### 2.4.6 5. Auto-generate release notes

Click the "Auto-generate release notes" button in the upper right corner of the large description box.

bln

New release · biglocalney ×     +	(
→ C O A https://github.com/biglocalnews/warn-scraper/releases/new	☆ 🛛 🖘
Search or jump to / Pull requests Issues Marketplace Explore	<i>Ļ</i> + • ₽ •
Diglocalnews / warn-scraper Public	v Fork 0 ☆ Star 2 🗸
<> Code <ul> <li>Issues 49</li> <li>Pull requests</li> <li>Discussions</li> <li>Actions</li> <li>Security</li> </ul>	🗠 Insights 🛛 …
Releases Tags	
<ul> <li>\$ 1.0.2 • \$ Target: main •</li> <li>Excellent! This tag will be created from the target when you publish this release.</li> <li>1.0.2</li> </ul>	Tagging suggestions It's common practice to prefix your version names with the letter v. Some good tag names might be
Write Preview	v1.0.0 or v2.3.4. If the tag isn't meant for production use, add a pre-release version
$H B I = \leftrightarrow \mathscr{O} := = \Box @ \Box & \neg + Auto-generate release notes$	after the version name. Some good pre-release versions might be v0.2.0-alpha or v5.9-beta.3.
Describe this release	Semantic versioning If you're new to releasing software, we highly recommend reading about semantic versioning.
Attach files by dragging & dropping, selecting or pasting them.	8
$\downarrow$ Attach binaries by dropping them here or selecting them.	

That should fill in the box below. What appears will depend on how many pull requests you've merged since the last release.

O New release - biglocalnev × +	- 0
	☆ 🛛
Search or jump to 7 Pull requests Issues Marketplace Explore	Ļ + • ₽ •
Diglocalnews / warn-scraper (Public)	♀ Fork 0 ☆ Star 2 -
<> Code  O Issues 49  Pull requests  Discussions  Actions  O Security	🗠 Insights \cdots
Releases Tags	
<ul> <li>1.0.2 • \$? Target: main •</li> <li>Excellent! This tag will be created from the target when you publish this release.</li> <li>1.0.2</li> </ul>	Tagging suggestions It's common practice to prefix your version names with the letter v. Some good tag names might be
Write Preview	v1.0.0 or v2.3.4. If the tag isn't meant for production use, add a pre-release version
There were no pull requests associated with the commits included in this release. Automatically-generated notes were not generated.	after the version name. Some good pre-release versions might be v0.2.0-alpha or v5.9-beta.3.
**Full Changelog**: https://github.com/biglocalnews/warn-scraper/compare/1.0.11.0.2	Semantic versioning If you're new to releasing software, we highly recommend reading about semantic versioning.
Attach files by dragging & dropping, selecting or pasting them.	
Attach binaries by dropping them here or selecting them.	

# 2.4.7 6. Publish the release

Click the green button that says "Publish release" at the bottom of the page.

O New release · biglocalnev ×     +		8		
$\leftarrow$ $\rightarrow$ C O A https://github.com/biglocalnews/warn-scraper/releases/new	☆ 🛛	≡		
Excellent! This tag will be created from the target when you publish this release. 1.0.2	It's common practice to prefix your version names with the letter v. Some good tag names might be v1.0.0 or v2.3.4.			
Write Preview	If the tag isn't meant for production use, add a pre-release version			
There were no pull requests associated with the commits included in this release. Automatically-generated notes were not generated.	after the version name. Some good pre-release versions might be v0.2.0-alpha or v5.9-beta.3.			
H B I ⋶ <> ♂ ∷ ∷ ⊠ @ Ç <sup>2</sup> ∽ ▼ ✓ Auto-generate release notes	notes If you're new to releasing software, we highly recommend reading			
Attach files by dragging & dropping, selecting or pasting them.				
$\checkmark$ Attach binaries by dropping them here or selecting them.				
This is a pre-release We'll point out that this release is identified as non-production ready.				
Publish release Save draft				
O © 2022 GitHub, Inc. Terms Privacy Security Status Docs Contact GitHub Pricing API Training	Blog About			

# 2.4.8 7. Wait for the Action to finish

GitHub will take you to a page dedicated to your new release and start an automated process that release our new version to the world. Follow its progress by clicking on the Actions tab near the top of the page.

Release 1.0.2 · biglocalne × + – – • 😣
← → C O A https://github.com/biglocalnews/warn-scraper/releases/tag/1.0.2 ☆ 🖾 =
Search or jump to / Pull requests Issues Marketplace Explore
📮 biglocalnews / warn-scraper Public 💿 Watch 4 🔹 😵 Fork 0 🙀 Star 2 🗣
<> Code 🕢 Issues 49 👔 Pull requests 🖓 Discussions 🕞 Actions 🕧 Security 🖂 Insights 🕸 Settings
Releases / 1.0.2
<b>1.0.2</b> Compare →        Compare →
Full Changelog: 1.0.11.0.2
• Assets 2
B Source code (zip)
Source code   (tar.gz)
$\odot$
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That will take you to the Actions monitoring page. The task charged with publishing your release should be at the top.

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# 2.4.9 8. Check the results on PyPI

After a few minutes, the process there should finish and show a green check mark.

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When it does, visit bln's page on PyPI, where you should see the latest version displayed at the top of the page.

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If the action fails, something has gone wrong with the deployment process. You can click into its debugging panel to search for the cause or ask the project maintainers for help.

# 2.5 Reference



# 2.5.1 Python client

# 2.5.2 pandas extensions

read\_bln

to\_bln

# CHAPTER

# THREE

# LINKS

- Documentation: bln-python-client.readthedocs.io
- Repository: github.com/biglocalnews/bln-python-client
- Packaging: pypi.org/project/bln

# CHAPTER

# FOUR

# ABOUT

The project is sponsored by Big Local News, a program at Stanford University that collects data for impactful journalism. The code is maintained by Stanford Lecturer Serdar Tumgoren and Ben Welsh, a visiting data journalist from the Los Angeles Times.