

transientNamer Documentation

Release v0.4.6

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2023

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Python API for reading and caching TNS reports.

Documentation for transientNamer is hosted by [Read the Docs](#) (development version and [master version](#)). The code lives on [github](#). Please report any issues you find [here](#).

CHAPTER

ONE

FEATURES

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CHAPTER
TWO

HOW TO CITE TRANSIENTNAMER

If you use transientNamer in your work, please cite using the following BibTeX entry:

```
@software{Young_transientNamer,  
  author = {Young, David R.},  
  doi = {10.5281/zenodo.7970680},  
  license = {GPL-3.0-only},  
  title = ,  
  url = {https://github.com/thespacedoctor/transientNamer}  
}
```

2.1 Installation

The easiest way to install transientNamer is to use pip (here we show the install inside of a conda environment):

```
conda create -n transientNamer python=3.7 pip  
conda activate transientNamer  
pip install transientNamer
```

Or you can clone the [github](#) repo and install from a local version of the code:

```
git clone git@github.com:thespacedoctor/transientNamer.git  
cd transientNamer  
python setup.py install
```

To upgrade to the latest version of transientNamer use the command:

```
pip install transientNamer --upgrade
```

To check installation was successful run `transientNamer -v`. This should return the version number of the install.

2.1.1 MySQL

If you wish to make use of the tools that allow interaction with a MySQL database you have to have [MySQL/Maria DB](#) server installed and access to a database. Credentials to the database are to be added to the settings file (see [initialisation](#)).

You also need to install PyMySQL into your conda environment via:

```
conda install pymysql
```

2.1.2 Development

If you want to tinker with the code, then install in development mode. This means you can modify the code from your cloned repo:

```
git clone git@github.com:thespacedoctor/transientNamer.git
cd transientNamer
python setup.py develop
```

Pull requests are welcomed!

2.2 Initialisation

Before using transientNamer you need to use the `init` command to generate a user settings file. Running the following creates a `yaml` settings file in your home folder under `~/.config/transientNamer/transientNamer.yaml`:

```
transientNamer init
```

The file is initially populated with transientNamer's default settings which can be adjusted to your preference.

If at any point the user settings file becomes corrupted or you just want to start afresh, simply trash the `transientNamer.yaml` file and rerun `transientNamer init`.

2.2.1 Modifying the Settings

Once created, open the settings file in any text editor and make any modifications needed. For example:

```
database settings:
  db: myDB
  host: localhost
  user: dbuser
  password: dbpass

astronote-cache: ~/Desktop/astronotes

# FIND IN YOUR USER ACCOUNT SETTING ON TNS : https://www.wis-tns.org
user-agent: 'tns_marker{"XXXX"}'
```

You will need to register to the TNS to get a unique `tns-marker` from your account settings on <https://www.wis-tns.org>. Once you have the `tns-marker` add it to your settings file.

2.2.2 Basic Python Setup

If you plan to use `transientNamer` in your own scripts you will first need to parse your settings file and set up logging etc. One quick way to do this is to use the `fundamentals` package to give you a logger, a settings dictionary and a database connection (if connection details given in settings file):

```
## SOME BASIC SETUP FOR LOGGING, SETTINGS ETC
from fundamentals import tools
from os.path import expanduser
home = expanduser("~/")
settingsFile = home + "/.config/transientNamer/transientNamer.yaml"
su = tools(
    arguments={"settingsFile": settingsFile},
    docString=__doc__,
)
arguments, settings, log, dbConn = su.setup()
```

2.3 Caching and Parsing Astronotes

Before parsing the Astronote contents it's necessary to download the notes into a local cache to avoid redownloading every time you wish to parse them and (reduces strain placed on the TNS). Before you begin make sure you have set up the `astronote-cache` setting in the settings file (see `initialisation` instructions).

In the spirit of fair-usage the downloader will pause for 1 second in-between each individual note download.

2.3.1 From the Command-Line

To cache the notes run the command:

```
transientNamer notes <reportedInLastDays>
```

So to cache notes from the last 10 days run `transientNamer notes 10`.

To also parse and import the cached notes into 3 MySQL database tables (`astronotes_content`, `astronotes_keywords`, `astronotes_transients`) run the same command but with the `--import` flag:

```
transientNamer --import notes <reportedInLastDays>
```

This will cause all unseen notes in the cache directory to be parsed and added to the database.

2.3.2 From Python Script

To download the notes from the last 30 days use the following snippet.

```
from transientNamer import astronotes
an = astronotes(
    log=log,
    dbConn=dbConn,
    settings=settings
)
downloadCount = an.download(
    cache_dir=settings["astronote-cache"], inLastDays=30)
print(f"{downloadCount} new astronotes downloaded and cached")
```

And to then parse the notes to the database tables add:

```
an.notes_to_database()
```

2.4 Todo List

Todo:

- nice!
-

(The *original entry* is located in /home/docs/checkouts/readthedocs.org/user_builds/transientnamer/checkouts/develop/docs/source/_temp/line 1.)

2.5 Release Notes

v0.4.6 - July 3, 2023

- **FIXED:** small fixes to unit-tests

v0.4.5 - January 10, 2023

- **FIXED:** changes to search url to reflectv changes made on the TNS. All transients should now be reported again.

v0.4.4 - June 17, 2022

- **FIXED:** unit-tests failing due to throttling from TNS

v0.4.3 - January 25, 2021

- **FIXED:** call to settings file now explicit from command-line (was not required until tns-marker added)

v0.4.2 - January 25, 2021

- **REFACTOR:** requests will fail if TNS responds with any status other than 200

- **REFACTOR:** added user-agent header now required by TNS (needs added in the settings file)

v0.4.1 - January 25, 2021

- **FEATURE:**** you can now download and parse astronotes (including ability to add to MySQL database tables)

- **REFACTOR:** Updated URL to the new TNS URL <https://www.wis-tns.org>

v0.3.2 - December 21, 2020

- **ENHANCEMENT:** now using discovered_period_value for discInLastDays. More efficient than adding range of obsdate.

v0.3.1 - October 25, 2020

- **FIXED:** bytes to string with utf-8 encoding bug stopping regexes from passing

v0.3.0 - May 22, 2020

- Now compatible with Python 3.*

CHAPTER
THREE

API REFERENCE

3.1 Modules

<code>transientNamer.commonutils</code>	<i>common tools used throughout package</i>
<code>transientNamer.utKit</code>	<i>Unit testing tools</i>

3.1.1 commonutils (*module*)

common tools used throughout package

Functions

<code>getpackagepath()</code>	<code>getpackagepath</code>
-------------------------------	-----------------------------

Sub-modules

<code>getpackagepath()</code>	<code>getpackagepath</code>
-------------------------------	-----------------------------

3.1.2 utKit (*module*)

Unit testing tools

Classes

<code>utKit(moduleDirectory[, dbConn])</code>	<i>Override dryx utKit</i>
---	----------------------------

Sub-modules

<code>utKit(moduleDirectory[, dbConn])</code>	<i>Override dryx utKit</i>
class utKit (moduleDirectory, dbConn=False)	
Bases: fundamentals.utKit.utKit	
<i>Override dryx utKit</i>	
get_project_root ()	<i>Get the root of the ``python`` package - useful for getting files in the root directory of a project</i>
Return	
• rootPath – the root path of a project	
refresh_database ()	<i>Refresh the unit test database</i>
setupModule ()	<i>The setupModule method</i>
Return	
• log – a logger	
• dbConn – a database connection to a test database (details from yaml settings file)	
• pathToInputDir – path to modules own test input directory	
• pathToOutputDir – path to modules own test output directory	
tearDownModule ()	<i>The tearDownModule method</i>

3.2 Classes

<code>transientNamer.astronotes</code>	<i>Tools to download, parse and ingest astronote content into a MySQL database</i>
<code>transientNamer.search</code>	<i>Search the Transient Name Server with various search constraints</i>

3.2.1 astronotes (class)

class astronotes (log, dbConn=False, settings=False)	
Bases: object	
<i>Tools to download, parse and ingest astronote content into a MySQL database</i>	
Key Arguments:	
• log – logger	
• dbConn – database connection. Default <i>False</i>	
• settings – the settings dictionary	
Usage:	

To setup your logger, settings and database connections, please use the `fundamentals` package (see tutorial here).

To initiate a `astronotes` object, use the following:

```
from transientNamer import astronotes
an = astronotes(
    log=log,
    dbConn=dbConn,
    settings=settings
)
```

Methods

<code>download(cache_dir[, inLastDays])</code>	*Download astronotes reported in the last N days.
<code>get_all_noteids([inLastDays])</code>	<i>get the noteids of those notes released in the last N days</i>
<code>notes_to_database()</code>	<i>read the notes and import them into indexed MySQL database tables</i>

download (`cache_dir, inLastDays=False`)

Download astronotes reported in the last N days. Check cache for notes already downloaded.

Key Arguments:

- `cache_dir` -- the directory to cache the json notes to.
- `inLastDays` -- download only notes reported in the last N days. Default `False`. (Download all)

Return:

- `downloadCount` -- number of new files cached

Usage:

```
from transientNamer import astronotes
an = astronotes(
    log=log,
    dbConn=dbConn,
    settings=settings
)
downloadCount = an.download(
    cache_dir=settings["astronote-cache"], inLastDays=30)
print(f" {downloadCount} new astronotes downloaded and cached")
```

get_all_noteids (`inLastDays=False`)

get the noteids of those notes released in the last N days

Key Arguments:

- `inLastDays` – report only noteIds released in the last N days. Default `False`. (Report all)

Return:

- `noteIds` -- list of all reported noteIds

Usage:

```
from transientNamer import astronotes
an = astronotes(
    log=log,
    settings=settings
)
noteIds = an.get_all_noteid(inLastDays=3000)
print(f"Astronote IDs: {noteIds}")
```

notes_to_database()

read the notes and import them into indexed MySQL database tables

Usage:

```
from transientNamer import astronotes
an = astronotes(
    log=log,
    dbConn=dbConn,
    settings=settings
)
an.notes_to_database()
```

3.2.2 search (class)

class search(log, ra="", dec="", radiusArcsec="", name="", discInLastDays="", settings=False, comments=False)

Bases: object

Search the Transient Name Server with various search constraints

Key Arguments

- `log` – logger
- `settings` – the settings dictionary
- `ra` – RA of the location being checked
- `dec` – DEC of the location being searched
- `radiusArcsec` – the radius of the conesearch to perform against the TNS
- `name` – name of the object to search the TNS for
- `discInLastDays` – search the TNS for transient reported in the last X days
- `comments` – print the comments from the TNS, note these can be long making table outputs somewhat unreadable. Default `False`

Usage

To initiate a search object to search the TNS via an object name (either TNS or survey names accepted):

```
from transientNamer import search
tns = search(
    log=log,
    name="Gaia16bbi"
)
```

or for a conesearch use something similar to:

```
from transientNamer import search
tns = search(
    log=log,
    ra="06:50:36.74",
    dec="+31:06:44.7",
    radiusArcsec=5
)
```

Note the search method can accept coordinates in sexagesimal or decimal degree formats.

To list all new objects reported in the last three weeks, then use:

```
from transientNamer import search
tns = search(
    log=log,
    discInLastDays=21
)
```

Methods

<code>csv([dirPath])</code>	<i>Render the results in csv format</i>
<code>json([dirPath])</code>	<i>Render the results in json format</i>
<code>markdown([dirPath])</code>	<i>Render the results in markdown format</i>
<code>mysql([tableNamePrefix, dirPath])</code>	<i>Render the results as MySQL Insert statements</i>
<code>table([dirPath])</code>	<i>Render the results as an ascii table</i>
<code>yaml([dirPath])</code>	<i>Render the results in yaml format</i>

Properties

<code>files</code>	<i>The associated source files</i>
<code>photometry</code>	<i>The associated source photometry</i>
<code>sources</code>	<i>The results of the search returned as a python list of dictionaries</i>
<code>spectra</code>	<i>The associated source spectral data</i>
<code>url</code>	<i>The generated URL used for searching of the TNS</i>

csv (dirPath=None)
Render the results in csv format

Key Arguments

- `dirPath` – the path to the directory to save the rendered results to. Default `None`

Return

- `csvSources` – the top-level transient data
- `csvPhot` – all photometry associated with the transients
- `csvSpec` – all spectral data associated with the transients
- `csvFiles` – all files associated with the matched transients found on the tns

Usage

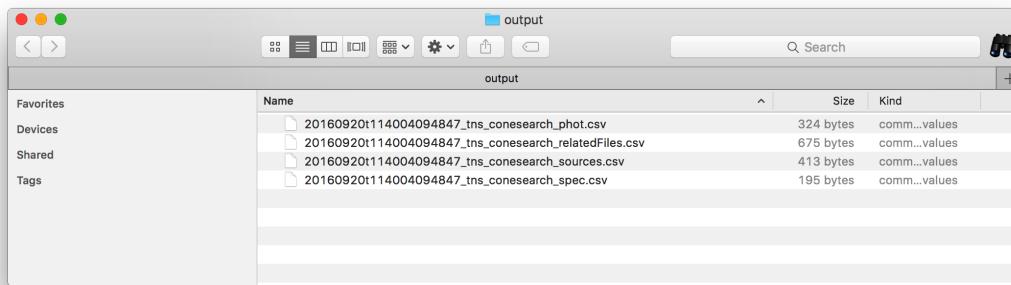
To render the results in csv format:

```
csvSources, csvPhot, csvSpec, csvFiles = tns.csv()  
print(csvSources)
```

```
TNSId,TNSName,discoveryName,discSurvey,raSex,decSex,raDeg,decDeg,  
→transRedshift,specType,discMag,discMagFilter,discDate,objectUrl,hostName,  
→hostRedshift,separationArcsec,separationNorthArcsec,separationEastArcsec  
2016ASF,SN2016ASF,ASASSN-16cs,ASAS-SN,06:50:36.73,+31:06:45.36,102.6530,31.  
→1126,0.021,SN Ia,17.1,V-Johnson,2016-03-06 08:09:36,https://www.wis-tns.org/  
→object/2016ASF,KUG 0647+311,,0.66,0.65,-0.13
```

You can save the results to file by passing in a directory path within which to save the files to. The four flavours of data (sources, photometry, spectra and files) are saved to separate files but all data can be associated with its transient source using the transient's unique TNSId.

```
tns.csv("~/tns")
```



```
:width: 800px  
:alt: csv output
```

json(dirPath=None)

Render the results in json format

Key Arguments

- dirPath – the path to the directory to save the rendered results to. Default *None*

Return

- jsonSources – the top-level transient data
- jsonPhot – all photometry associated with the transients
- jsonSpec – all spectral data associated with the transients
- jsonFiles – all files associated with the matched transients found on the tns

Usage

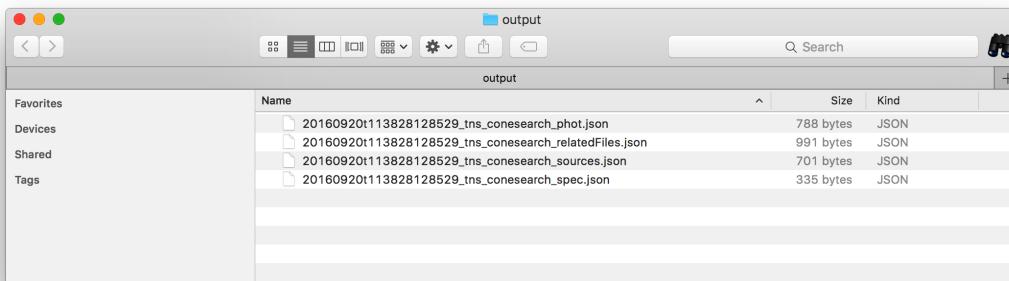
To render the results in json format:

```
jsonSources, jsonPhot, jsonSpec, jsonFiles = tns.json()  
print(jsonSources)
```

```
[  
  {  
    "TNSId": "2016asdf",  
    "TNSName": "SN2016asdf",  
    "decDeg": 31.1126,  
    "decSex": "+31:06:45.36",  
    "discDate": "2016-03-06 08:09:36",  
    "discMag": "17.1",  
    "discMagFilter": "V-Johnson",  
    "discSurvey": "ASAS-SN",  
    "discoveryName": "ASASSN-16cs",  
    "hostName": "KUG 0647+311",  
    "hostRedshift": null,  
    "objectUrl": "https://www.wis-tns.org/object/2016asdf",  
    "raDeg": 102.6530416666667,  
    "raSex": "06:50:36.73",  
    "separationArcsec": "0.66",  
    "separationEastArcsec": "-0.13",  
    "separationNorthArcsec": "0.65",  
    "specType": "SN Ia",  
    "transRedshift": "0.021"  
  }  
]
```

You can save the results to file by passing in a directory path within which to save the files to. The four flavours of data (sources, photometry, spectra and files) are saved to separate files but all data can be associated with its transient source using the transient's unique TNSId.

```
tns.json("~/tns")
```



```
:width: 800px  
:alt: json output
```

markdown (dirPath=None)

Render the results in markdown format

Key Arguments

- dirPath – the path to the directory to save the rendered results to. Default *None*

Return

- markdownSources – the top-level transient data
- markdownPhot – all photometry associated with the transients

- markdownSpec – all spectral data associated with the transients
- markdownFiles – all files associated with the matched transients found on the tns

Usage

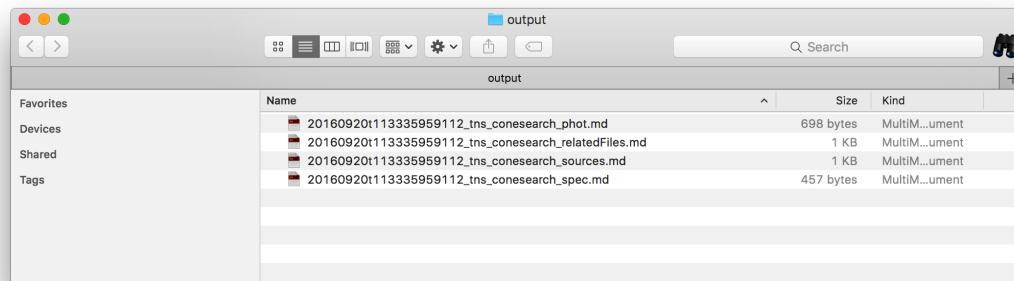
To render the results in markdown table format:

```
markdownSources, markdownPhot, markdownSpec, markdownFiles = tns.markdown()
print(markdownSources)
```

TNSId	TNSName	discoveryName	discSurvey	raSex	decSex	raDeg	decDeg	transRedshift	specType	discMag	discMagFilter	discDate	objectUrl	hostName	hostRedshift	separationArcsec	separationNorthArcsec	separationEastArcsec
2016asf	SN2016asf	ASASSN-16cs	ASAS-SN	06:50:36.73	+31:06:45.36	102.6530	31.1126	0.021	SN Ia	17.1	V-Johnson	2016-03-06 08:09:36	https://www.wis-tns.org/object/2016asf	KUG 0647+311	0.66	0.65	-0.13	

You can save the results to file by passing in a directory path within which to save the files to. The four flavours of data (sources, photometry, spectra and files) are saved to separate files but all data can be associated with its transient source using the transient's unique TNSId.

```
tns.markdown("~/tns")
```



```
:width: 800px
:alt: markdown output
```

mysql (*tableNamePrefix='TNS'*, *dirPath=None*)
Render the results as MySQL Insert statements

Key Arguments

- tableNamePrefix – the prefix for the database table names to assign the insert statements to. Default *TNS*.
- dirPath – the path to the directory to save the rendered results to. Default *None*

Return

- mysqlSources – the top-level transient data
- mysqlPhot – all photometry associated with the transients
- mysqlSpec – all spectral data associated with the transients
- mysqlFiles – all files associated with the matched transients found on the tns

Usage

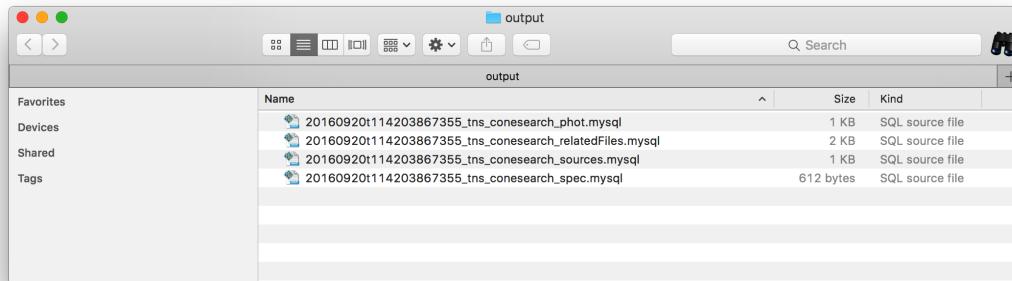
To render the results in mysql insert format:

```
mysqlSources, mysqlPhot, mysqlSpec, mysqlFiles = tns.mysql("TNS")
print(mysqlSources)
```

```
INSERT INTO `TNS_sources` (TNSId, TNSName, dateCreated, decDeg, decSex, discDate,
discMag, discMagFilter, discSurvey, discoveryName, hostName, hostRedshift,
objectUrl, raDeg, raSex, separationArcsec, separationEastArcsec,
separationNorthArcsec, specType, transRedshift) VALUES ("2016asdf", "SN2016asdf",
"2016-09-20T11:22:13", "31.1126", "+31:06:45.36", "2016-03-06 08:09:36",
"17.1", "V-Johnson", "ASAS-SN", "ASASSN-16cs", "KUG 0647+311", null,
"https://www.wis-tns.org/object/2016asdf", "102.653041667", "06:50:36.73",
"0.66", "-0.13", "0.65", "SN Ia", "0.021") ON DUPLICATE KEY UPDATE TNSId=
"2016asdf", TNSName="SN2016asdf", dateCreated="2016-09-20T11:22:13", decDeg=
"31.1126", decSex="+31:06:45.36", discDate="2016-03-06 08:09:36", discMag=
"17.1", discMagFilter="V-Johnson", discSurvey="ASAS-SN", discoveryName=
"ASASSN-16cs", hostName="KUG 0647+311", hostRedshift=null, objectUrl=
"https://www.wis-tns.org/object/2016asdf", raDeg="102.653041667", raSex=
"06:50:36.73", separationArcsec="0.66", separationEastArcsec="-0.13",
separationNorthArcsec="0.65", specType="SN Ia", transRedshift="0.021",
updated=1, dateLastModified=NOW() ;
```

You can save the results to file by passing in a directory path within which to save the files to. The four flavours of data (sources, photometry, spectra and files) are saved to separate files but all data can be associated with its transient source using the transient's unique TNSId.

```
tns.mysql("TNS", "~/tns")
```



```
:width: 800px
:alt: mysql output
```

table (dirPath=None)
Render the results as an ascii table

Key Arguments

- `dirPath` – the path to the directory to save the rendered results to. Default `None`

Return

- `tableSources` – the top-level transient data
- `tablePhot` – all photometry associated with the transients
- `tableSpec` – all spectral data associated with the transients
- `tableFiles` – all files associated with the matched transients found on the tns

Usage

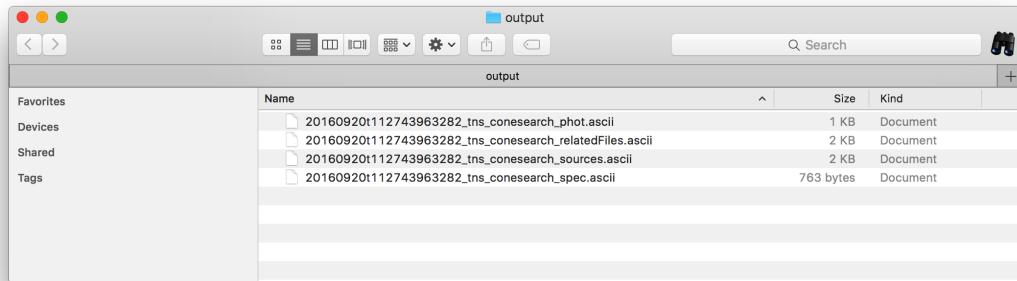
To render the results in ascii table format:

```
tableSources, tablePhot, tableSpec, tableFiles = tns.table()
print(tableSources)
```

TNSId	TNSName	discoveryName	discSurvey	raSex	decSex	raDeg	decDeg	transRedshift	specType	discMag	discMagFilter	discDate	objectUrl	hostName	hostRedshift	separationArcsec	separationNorthArcsec	separationEastArcsec
2016ASF	SN2016ASF	ASASSN-16cs	ASAS-SN	06:50:36.73	+31:06:45.36	102.6530	31.1126	0.021	SN Ia	17.1	V-Johnson	2016-03-06 08:09:36	https://www.wis-tns.org/object/2016ASF	KUG 0647+311	0.66	0.65	-0.13	

You can save the results to file by passing in a directory path within which to save the files to. The four flavours of data (sources, photometry, spectra and files) are saved to separate files but all data can be associated with its transient source using the transient's unique TNSId.

```
tns.table("~/tns")
```



:width: 800px
:alt: ascii files

yaml (dirPath=None)
Render the results in yaml format

Key Arguments

- dirPath – the path to the directory to save the rendered results to. Default *None*

Return

- yamlSources – the top-level transient data
- yamlPhot – all photometry associated with the transients
- yamlSpec – all spectral data associated with the transients
- yamlFiles – all files associated with the matched transients found on the tns

Usage

To render the results in yaml format:

```
yamlSources, yamlPhot, yamlSpec, yamlFiles = tns.yaml()
print(yamlSources)
```

```
- TNSId: 2016asd
TNSName: SN2016asd
decDeg: 31.1126
decSex: '+31:06:45.36'
discDate: '2016-03-06 08:09:36'
discMag: '17.1'
discMagFilter: V-Johnson
discSurvey: ASAS-SN
discoveryName: ASASSN-16cs
hostName: KUG 0647+311
hostRedshift: null
objectUrl: https://www.wis-tns.org/object/2016asd
raDeg: 102.6530416666667
raSex: '06:50:36.73'
separationArcsec: '0.66'
separationEastArcsec: '-0.13'
separationNorthArcsec: '0.65'
```

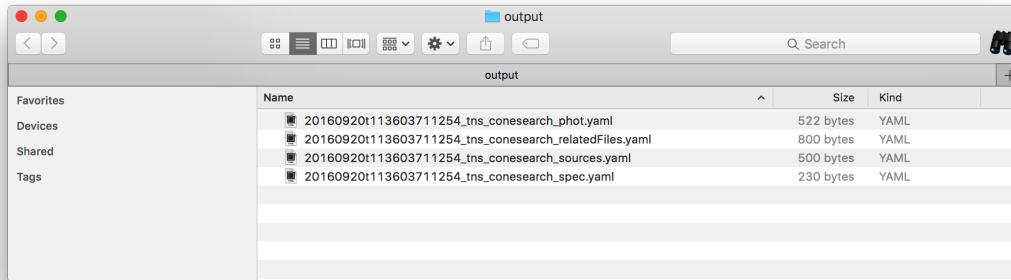
(continues on next page)

(continued from previous page)

```
specType: SN Ia
transRedshift: '0.021'
```

You can save the results to file by passing in a directory path within which to save the files to. The four flavours of data (sources, photometry, spectra and files) are saved to separate files but all data can be associated with its transient source using the transient's unique TNS ID.

```
tns.yaml("~/tns")
```



```
:width: 800px
:alt: yaml output
```

property files

The associated source files

Usage

```
sourceFiles = tns.files
```

property photometry

The associated source photometry

Usage

```
sourcePhotometry = tns.photometry
```

property sources

The results of the search returned as a python list of dictionaries

Usage

```
sources = tns.sources
```

property spectra

The associated source spectral data

Usage

```
sourceSpectra = tns.spectra
```

property url

The generated URL used for searching of the TNS

Usage

```
searchURL = tns.url
```

3.3 Functions

<i>transientNamer.commonutils.</i>	<i>getpackagepath</i>
<i>getpackagepath</i>	

3.3.1 getpackagepath (*function*)

getpackagepath()
getpackagepath

3.4 A-Z Index

Modules

<i>transientNamer.commonutils</i>	<i>common tools used throughout package</i>
<i>transientNamer.utKit</i>	<i>Unit testing tools</i>

Classes

<i>transientNamer.astronotes</i>	<i>Tools to download, parse and ingest astronote content into a MySQL database</i>
<i>transientNamer.search</i>	<i>Search the Transient Name Server with various search constraints</i>

Functions

<i>transientNamer.commonutils.</i>	<i>getpackagepath</i>
<i>getpackagepath</i>	

CHAPTER
FOUR

RELEASE NOTES

v0.4.6 - July 3, 2023

- **FIXED:** small fixes to unit-tests

v0.4.5 - January 10, 2023

- **FIXED:** changes to search url to reflectv changes made on the TNS. All transients should now be reported again.

v0.4.4 - June 17, 2022

- **FIXED:** unit-tests failing due to throttling from TNS

v0.4.3 - January 25, 2021

- **FIXED:** call to settings file now explicit from command-line (was not required until tns-marker added)

v0.4.2 - January 25, 2021

- **REFACTOR:** requests will fail if TNS responds with any status other than 200
- **REFACTOR:** added user-agent header now required by TNS (needs added in the settings file)

v0.4.1 - January 25, 2021

- **FEATURE:**** you can now download and parse astronotes (including ability to add to MySQL database tables)
- **REFACTOR:** Updated URL to the new TNS URL <https://www.wis-tns.org>

v0.3.2 - December 21, 2020

- **ENHANCEMENT:** now using discovered_period_value for discInLastDays. More efficient than adding range of obsdate.

v0.3.1 - October 25, 2020

- **FIXED:** bytes to string with utf-8 encoding bug stopping regexes from passing

v0.3.0 - May 22, 2020

- Now compatible with Python 3.*

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