

---

# **TX Dallas Parser Documentation**

***Release 0.2***

**Jay C.**

**Jan 27, 2020**

This is a Python package for parsing HTML pages retrieved from the Texas Dallas County Felony and Misdemeanor Courts Case Information. Since the county website strictly monitors server activity, this package is meant to be used only after the user has collected HTML files for their use. Put differently, I will not be sharing any code that can be used to collect these raw HTML files.

**OUTPUT**

The *dallasparser* package will generate a maximum of 15 *.xlsx* files for each data table found from the county website:

Table Name	Output
Appeals	<i>appeals.xlsx</i>
Bonds	<i>bonds.xlsx</i>
Bond COMMENTS	<i>bond_comments.xlsx</i>
Charges	<i>charges.xlsx</i>
Competency Data	<i>competency_data.xlsx</i>
Dispositions	<i>dispositions.xlsx</i>
General Comments	<i>general_comments.xlsx</i>
General Comments WS Date	<i>general_comments_ws_date.xlsx</i>
Judicial Information	<i>judicial_information.xlsx</i>
Motions	<i>motions.xlsx</i>
Names	<i>names.xlsx</i>
Payments	<i>payments.xlsx</i>
Probation Revocation	<i>probation_revocation.xlsx</i>
Reduced/Enhanced Charges	<i>reduced_enhanced_charges.xlsx</i>
Sets and Passes	<i>sets_and_passes.xlsx</i>

## INSTALLATION

### Source:

```
$ git clone https://github.com/jaycatsby/tx_dallas_court_parser.git
$ cd tx_dallas_court_parser
$ python setup.py install
```

### PyPI:

```
$ pip install dallaspaser
```

## USAGE

### A. CLI:

```
$ dallasparser [-h] [-i INPUT] [-o OUTPUT]

optional arguments:
  -h, --help            show this help message and exit
  -i INPUT, --input INPUT
                        absolute path of HTML folder
  -o OUTPUT, --output OUTPUT
                        absolute path of XLSX output files
```

### B. Module:

```
from dallasparser.parser import TXDallasParser
parser = TXDallasParser(html_path, xlsx_path)
parser.run()
```

## 4.1 cli.py

### 4.1.1 CLI

Command-line script for running TXDallasParser.

```
cli.main()
    Main function to run when parsing using CLI.

cli.parse_arg()
    Argument parser for CLI usage.
```

## 4.2 parser.py

### 4.2.1 Parser

Parser for extracting relevant information from Texas Dallas County Felony and Misdemeanor Courts using regular expressions.

```
class dallasparser.parser.TXDallasParser (input_path=None, output_path=None)
    Bases: object
```

Main parser class.

#### Parameters

- **input\_path** (*str*) – Absolute path of HTML folder.
- **output\_path** (*str*) – Absolute folder path of XLSX output files.

```
COLUMN_ORDER = {'appeals': ['da_case_id', 'jd_case_id', 'appeal_id', 'ct_disp_no'],
    Column order for final exported XLSX files for each table. To modify, see utils.py.
```

```
extract_tables (trs)
```

Method for separating all of the HTML elements to appropriate list for a given table.

**Parameters** *trs* (*list*) – List of <tr> objects excluding table header elements

**Return type** tuple

```
get_appeals (appeal_trs, da_case_id, jd_case_id)
```

Extract *Appeals* Table.

#### Parameters

- **appeals\_trs** (*list*) – List of <tr> elements in *Appeals* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_bond\_comments** (*bond\_comment\_trs*, *da\_case\_id*, *jd\_case\_id*)  
Extract *Bond Comments* Table.

**Parameters**

- **bond\_comment\_trs** (*list*) – List of <tr> elements in *Bond Comments* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_bonds** (*bonds\_trs*, *da\_case\_id*, *jd\_case\_id*)  
Extract *Bonds* Table.

**Parameters**

- **bonds\_trs** (*list*) – List of <tr> elements in *Bonds* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_charges** (*charge\_trs*, *da\_case\_id*, *jd\_case\_id*)  
Extract *Charges* Table.

**Parameters**

- **charges\_trs** (*list*) – List of <tr> elements in *Charges* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_competency\_data** (*comp\_trs*, *da\_case\_id*, *jd\_case\_id*)  
Extract *Competency Data* Table.

**Parameters**

- **comp\_trs** (*list*) – List of <tr> elements in *Competency Data* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_dispositions** (*disp\_trs*, *da\_case\_id*, *jd\_case\_id*)  
Extract *Dispositions* Table.

**Parameters**

- **disp\_trs** (*list*) – List of <tr> elements in *Dispositions* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_general\_comments** (*comment\_trs*, *da\_case\_id*, *jd\_case\_id*)  
Extract *General Comments* Table.

**Parameters**

- **comment\_trs** (*list*) – List of <tr> elements in *General Comments* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.

- **jd\_case\_id**(*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_general\_comments\_ws**(*comment\_ws\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *General Comments WS Dates* Table.

**Parameters**

- **comment\_ws\_trs**(*list*) – List of <tr> elements in *General Comments WS Date* section.
- **da\_case\_id**(*str*) – DA Case ID used for linkage.
- **jd\_case\_id**(*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_judicial\_information**(*judicial\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *Judicial Information* Table.

**Parameters**

- **judicial\_trs** – List of <tr> elements in *Judicial Information* section.
- **da\_case\_id**(*str*) – DA Case ID used for linkage.
- **jd\_case\_id**(*str*) – Judicial Case ID used for linkage.

**Return type** dict

**get\_motions**(*motion\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *Motions* Table.

**Parameters**

- **motions\_trs**(*list*) – List of <tr> elements in *Motions* section.
- **da\_case\_id**(*str*) – DA Case ID used for linkage.
- **jd\_case\_id**(*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_names**(*names\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *Names* Table.

**Parameters**

- **names\_trs**(*list*) – List of <tr> elements in *Names* section.
- **da\_case\_id**(*str*) – DA Case ID used for linkage.
- **jd\_case\_id**(*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_payments**(*payment\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *Payments* Table.

**Parameters**

- **payment\_trs**(*list*) – List of <tr> elements in *Payments* section.
- **da\_case\_id**(*str*) – DA Case ID used for linkage.
- **jd\_case\_id**(*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_probation\_revocation**(*prov\_revoc\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *Probation Revocation* Table.

**Parameters**



- **prob\_revoc\_trs** (*list*) – List of <tr> elements in *Probation Revocation* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_reduced\_enhanced** (*red\_enh\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *Reduced/Enhanced Charges* Table.

**Parameters**

- **red\_enh\_trs** (*list*) – List of <tr> elements in *Reduced/Enhanced Charges* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**get\_sets\_and\_passes** (*sets\_trs*, *da\_case\_id*, *jd\_case\_id*)

Extract *Sets and Passes* Table.

**Parameters**

- **sets\_trs** (*list*) – List of <tr> elements in *Sets and Passes* section.
- **da\_case\_id** (*str*) – DA Case ID used for linkage.
- **jd\_case\_id** (*str*) – Judicial Case ID used for linkage.

**Return type** list

**parse** (*html\_fn*)

Main method to run the parser. This method takes in an HTML file name and loads it as a *BeautifulSoup* object. Afterwards, it calls *extract\_tables* method to find all of the relevant HTML elements before checking for each table.

**Parameters** **html\_fn** (*str*) – Filename of the HTML page to parse.

**Return type** tuple

**run** ()

Main method to call for parsing HTML files. Iterates *self.input\_path* to find all HTML files and for each file found, calls the *parse* method.

## 4.3 regex.py

This module offers regular expressions for each information table.

## 4.4 utils.py

### 4.4.1 Utils

This module offers general convenience and utility functions for dealing with parsed data.

**utils.APPEALS\_HEADERS** = ['da\_case\_id', 'jd\_case\_id', 'appeal\_id', 'ct\_disp\_no', 'date\_ap  
Column order of *appeals.xlsx*

**utils.BONDS\_HEADERS** = ['da\_case\_id', 'jd\_case\_id', 'bond\_id', 'date\_bond\_set', 'amt', 't  
Column order of *bonds.xlsx*

`utils.BOND_COMMENTS_HEADERS = ['da_case_id', 'jd_case_id', 'comment_id', 'date', 'comment']`  
Column order of *bond\_comments.xlsx*

`utils.CHARGES_HEADERS = ['da_case_id', 'jd_case_id', 'charge_id', 'name_raw', 'offense_code']`  
Column order of *charges.xlsx*

`utils.COMPETENCY_HEADERS = ['da_case_id', 'jd_case_id', 'competency_id', 'hearing_date', 'competency_data']`  
Column order of *competency\_data.xlsx*

`utils.DISPOSITIONS_HEADERS = ['da_case_id', 'jd_case_id', 'disp_id', 'ct_disp_no', 'verdict_date']`  
Column order of *dispositions.xlsx*

`utils.GC_HEADERS = ['da_case_id', 'jd_case_id', 'comment_id', 'comment', 'date', 'last_updated']`  
Column order of *general\_comments.xlsx*

`utils.GC_WS_DATE_HEADERS = ['da_case_id', 'jd_case_id', 'comment_id', 'comment', 'comment_date']`  
Column order of *general\_comments\_ws\_date.xlsx*

`utils.JUDICIAL_HEADERS = ['da_case_id', 'jd_case_id', 'name_raw', 'race', 'sex', 'dob', 'judicial_information']`  
Column order of *judicial\_information.xlsx*

`utils.MOTIONS_HEADERS = ['da_case_id', 'jd_case_id', 'motion_id', 'motion_file', 'motion_date']`  
Column order of *motions.xlsx*

`utils.NAMES_HEADERS = ['da_case_id', 'jd_case_id', 'name_id', 'associated_name', 'name_raw']`  
Column order of *names.xlsx*

`utils.PAYMENTS_HEADERS = ['da_case_id', 'jd_case_id', 'payment_id', 'ct_disp_no', 'date']`  
Column order of *payments.xlsx*

`utils.PROB_REVOC_HEADERS = ['da_case_id', 'jd_case_id', 'ct_disp_no', 'verdict_date', 'probation_revocation']`  
Column order of *probation\_revocation.xlsx*

`utils.RED_ENH_HEADERS = ['da_case_id', 'jd_case_id', 'red_enh_id', 'desc', 'comment', 'type']`  
Column order of *reduced\_enhanced\_charges.xlsx*

`utils.SETS_HEADERS = ['da_case_id', 'jd_case_id', 'sp_id', 'set_for_date', 'set_for_time']`  
Column order of *sets\_and\_passes.xlsx*

`utils.clean_val(val)`  
Returns cleaned value after replacing underscores ('\_') and asterisks ('\*') with an empty whitespace.

**Parameters** `val` (*str*) – Raw parsed string

**Returns** A `str` object after removing underscores and asterisks

## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

## PYTHON MODULE INDEX

### c

`cli, ??`

### d

`dallasparser.parser, ??`

### r

`regex, ??`

### u

`utils, ??`