

---

# Package**name** Documentation

*Release 0.1.2*

**package**name****

**Dec 05, 2019**



**CONTENTS:**

<b>1</b>	<b>visitparser Documentation</b>	<b>3</b>
1.1	Functionalities . . . . .	3
1.2	Where to Find visitparser . . . . .	3
1.3	Installation . . . . .	3
1.3.1	How to install . . . . .	3
1.4	User Documentation . . . . .	4
1.5	Reporting Issues / Contributing . . . . .	4
1.6	Reference API . . . . .	4
1.6.1	parser . . . . .	4
	<b>Python Module Index</b>	<b>7</b>
	<b>Index</b>	<b>9</b>



`visitparser` provides tools for parsing information from JWST visit files.



## VISITPARSER DOCUMENTATION

Tools for parsing information from JWST visit files.

### 1.1 Functionalities

- Read JWST .vst files
- Return Visit object that contains all parsed information from the .vst file, i.e. ID, groups, sequences, activities
- Produce summaries of activities in tabular format
- Support for producing reports in text format

### 1.2 Where to Find visitparser

visitparser is hosted and developed at <https://github.com/spacetelescope/jwst-visit-parser>

### 1.3 Installation

This package is being developed in a python 3.5 environment.

#### 1.3.1 How to install

visitparser is available via astroconda:

```
`conda install jwst-visit-parser`
```

Alternatively, you can clone the repository:

```
`git clone https://github.com/spacetelescope/jwst-dms-edb`
```

and install visitparser like this:

```
`cd visitparser`  
`python setup.py install`
```

or:

```
`pip install .`
```

## 1.4 User Documentation

Example usage:

## 1.5 Reporting Issues / Contributing

Do you have feedback and feature requests? Is there something missing you would like to see? Please open a new issue or new pull request at <https://github.com/spacetelescope/jwst-visit-parser> for bugs, feedback, or new features you would like to see. If there is an issue you would like to work on, please leave a comment and we will be happy to assist. New contributions and contributors are very welcome! This package follows the STScI [Code of Conduct](https://github.com/spacetelescope/visitparser/blob/master/CODE_OF_CONDUCT.md) ([https://github.com/spacetelescope/visitparser/blob/master/CODE\\_OF\\_CONDUCT.md](https://github.com/spacetelescope/visitparser/blob/master/CODE_OF_CONDUCT.md)) strives to provide a welcoming community to all of our users and contributors.

We strive to adhere to the [STScI Style Guides](https://github.com/spacetelescope/style-guides) (<https://github.com/spacetelescope/style-guides>).

Please see the guidelines for jwql: <https://github.com/spacetelescope/jwql>

## 1.6 Reference API

### 1.6.1 parser

Module to inspect JWST visit files.

#### Authors

Johannes Sahlmann Marshall Perrin

**class** visitparser.parser.**Activity** (*cmdstring*, \**args*, \*\**kwargs*)  
Capture information related to activity.

**describe** ()

**class** visitparser.parser.**Aux** (*cmdstring*, *verbose=False*)  
Capture statement identified by AUX keyword.

**class** visitparser.parser.**Dither** (*cmdstring*, *verbose=False*)  
Capture statement identified by DITHER keyword.

**class** visitparser.parser.**Guide** (*cmdstring*, *group=None*, *sequence=None*, *verbose=False*)  
Expand Guide statement.

**describe** ()

**class** visitparser.parser.**Momentum** (*cmdstring*, *verbose=False*)  
Capture statement identified by MOMENTUM keyword.

**class** visitparser.parser.**Slew** (*cmdstring*, *group=None*, *sequence=None*, *verbose=False*)  
Expand statement identified by SLEW keyword.



**class** `visitparser.parser.SlewOrAct` (*cmdstring, group=None, sequence=None, verbose=False*)  
Capture statement identified by SLEW or ACT keyword.

**property** `gsa`  
Group, sequence, activity

**class** `visitparser.parser.Statement` (*cmdstring, verbose=False*)  
Capture visit file statement delimited by a semicolon.

**class** `visitparser.parser.Visit` (*templates, statements, groups*)  
Class for JWST visit file information

**overview\_table** (*instrument=None*)  
Return an astropy table with specific information, one row per exposure/activity.

**instrument** [str] JWST instrument name, case insensitive

**table** [astropy.table] Table with additional information extracted from the statements.

**class** `visitparser.parser.VisitDescription` (*cmdstring, verbose=False*)  
Capture statement identified by VISIT keyword.

`visitparser.parser.crosscheck_wfsc_visit_file` (*filename*)  
update Perrin's function to updated code.

*filename*

`visitparser.parser.iswhitespace` (*x*)

`visitparser.parser.parse_visit_file` (*filename, verbose=False*)  
Read and parse the visit file line-by-line.

**filename** [str] Name fo file to parse

**verbose** [bool] verbosity

**visit** [Visit object] Object containing all information extracted from the file.

- `genindex`
- `modindex`



## PYTHON MODULE INDEX

### V

`visitparser.parser`, 4



## INDEX

### A

`Activity` (class in `visitparser.parser`), 4

`Aux` (class in `visitparser.parser`), 4

### C

`crosscheck_wfsc_visit_file()` (in module `visitparser.parser`), 5

### D

`describe()` (`visitparser.parser.Activity` method), 4

`describe()` (`visitparser.parser.Guide` method), 4

`Dither` (class in `visitparser.parser`), 4

### G

`gsa()` (`visitparser.parser.SlewOrAct` property), 5

`Guide` (class in `visitparser.parser`), 4

### I

`iswhitespace()` (in module `visitparser.parser`), 5

### M

`Momentum` (class in `visitparser.parser`), 4

### O

`overview_table()` (`visitparser.parser.Visit` method), 5

### P

`parse_visit_file()` (in module `visitparser.parser`), 5

### S

`Slew` (class in `visitparser.parser`), 4

`SlewOrAct` (class in `visitparser.parser`), 4

`Statement` (class in `visitparser.parser`), 5

### V

`Visit` (class in `visitparser.parser`), 5

`VisitDescription` (class in `visitparser.parser`), 5

`visitparser.parser` (module), 4