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# **Sefaria Documentation**

*Release 1.2*

**The Sefaria Team**

**Oct 09, 2017**



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## Contents

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<b>1</b>	<b>Library</b>	<b>3</b>
<b>2</b>	<b>Ref</b>	<b>7</b>
2.1	Displaying Refs . . . . .	7
2.2	Inspecting Refs . . . . .	7
2.3	Comparing Refs . . . . .	10
2.4	Deriving Refs from Refs . . . . .	11
2.5	Getting other data with Refs . . . . .	13
<b>3</b>	<b>TextChunk and TextFamily</b>	<b>15</b>
<b>4</b>	<b>Version</b>	<b>17</b>
<b>5</b>	<b>Index, and CommentaryIndex</b>	<b>19</b>
	<b>Python Module Index</b>	<b>21</b>



- [genindex](#)
- [search](#)



**class** `sefaria.model.text.Library`

Operates as a singleton, through the instance called `library`.

Stewards the in-memory and in-cache objects that cover the entire collection of texts.

Exposes methods to add, remove, or register change of an index record. These are primarily called by the dependencies mechanism on Index Create/Update/Destroy.

**add\_index\_record\_to\_cache** (*index\_object=None, rebuild=True*)

Update library title dictionaries and caches with information from provided index. Index can be passed with primary title in *index\_title* or as an object in *index\_object* :param *index\_object*: Index record :param *rebuild*: Perform a rebuild of derivative objects afterwards? False only in cases of batch update. :return:

**all\_index\_records** ()

**all\_titles\_regex** (*lang='en', with\_terms=False, citing\_only=False*)

**Returns** A regular expression object that will match any known title in the library in the provided language

**Parameters**

- **lang** – “en” or “he”
- **with\_terms** (*bool*) – Default False. If True, include shared titles (‘terms’). (Will have no effect if *citing\_only* is True)
- **citing\_only** – Match only those texts which have *is\_cited* set to True

**Raise** `InputError`: if *lang* == “he” and *commentary* == True

Uses `re2` if available. See <https://github.com/Sefaria/Sefaria-Project/wiki/Regular-Expression-Engines>

**all\_titles\_regex\_string** (*lang='en', with\_terms=False, citing\_only=False*)

**Parameters**

- **lang** – “en” or “he”
- **with\_terms** – Include terms in regex. (Will have no effect if *citing\_only* is True)

- **citing\_only** – Match only those texts which have `is_cited` set to True
- **for\_js** –

**Returns**

`build_full_auto_completer()`

`build_ref_auto_completer()`

`category_id_dict` (*toc=None, cat\_head='', code\_head=''*)

`citing_title_list` (*lang='en'*)

**Parameters** `lang` – “he” or “en”

**Returns** list of all titles that can be recognized as an inline citation

`delete_index_from_toc` (*indx*)

`full_auto_completer` (*lang*)

`full_title_list` (*lang='en', with\_terms=False*)

**Returns** list of strings of all possible titles

**Parameters**

- `lang` – “he” or “en”
- `with_terms` – if True, includes shared titles (‘terms’)

`get_content_nodes()`

**Returns** list of all content nodes in the library

`get_dependant_indices` (*book\_title=None, dependence\_type=None, structure\_match=False, full\_records=False*)

Replacement for all get commentary title methods :param `book_title`: Title of the base text. If `book_title` is None, returns all matching dependent texts :param `dependence_type`: none, “Commentary” or “Targum” - generally used to get Commentary and leave out Targum. If none, returns all indexes. :param `structure_match`: If True, returns records that follow the base text structure :param `full_records`: If True, returns an IndexSet, if False returns list of titles. :return: IndexSet or List of titles.

`get_index` (*bookname*)

Factory - returns a *Index* object that has the given bookname

**Parameters** `bookname` (*string*) – Name of the book.

**Returns**

`get_index_forest()`

**Returns** list of root Index nodes.

`get_indexes_in_category` (*category, include\_dependant=False, full\_records=False*)

**Parameters**

- `category` (*string*) – Name of category
- `include_dependant` (*bool*) – If true includes records of Commentary and Targum
- `full_records` (*bool*) – If True will return the actual :class: ‘IndexSet’ otherwise just the titles

**Returns** *IndexSet* of *Index* records in the specified category

`get_indices_by_collective_title` (*collective\_title, full\_records=False*)

**get\_multi\_title\_regex\_string** (*titles, lang, for\_js=False, anchored=False*)  
 Capture title has to be true. :param titles: :param lang: :param for\_js: :param anchored: :return:

**get\_refs\_in\_string** (*st, lang=None, citing\_only=False*)  
 Returns an list of Ref objects derived from string

**Parameters**

- **st** (*string*) – the input string
- **lang** – “he” or “en”
- **citing\_only** – boolean whether to use only records explicitly marked as being referenced in text.

**Returns** list of *Ref* objects

**get\_regex\_string** (*title, lang, for\_js=False, anchored=False, capture\_title=False*)

**get\_schema\_node** (*title, lang=None*)

**Parameters**

- **title** (*string*) –
- **lang** – “en” or “he”

**Returns** a particular SchemaNode that matches the provided title and language

**Return type** `sefaria.model.schema.SchemaNode`

**get\_search\_filter\_toc** ()

Returns table of contents object from cache, DB or by generating it, as needed.

**get\_search\_filter\_toc\_json** ()

Returns JSON representation of TOC.

**get\_simple\_term\_mapping** ()

**get\_term\_dict** (*lang='en'*)

**Returns** dict of shared titles that have an explicit ref

**Parameters** **lang** – “he” or “en”

**get\_text\_categories** ()

**Returns** List of all known text categories.

**get\_text\_titles\_json** (*lang='en'*)

**Returns** JSON of full texts list, (cached)

**get\_title\_node\_dict** (*lang='en'*)

**Parameters** **lang** – “he” or “en”

**Returns** dictionary of string titles and the nodes that they point to.

Does not include bare commentator names, like *Rashi*.

**get\_titles\_in\_string** (*s, lang=None, citing\_only=False*)

Returns the titles found in the string.

**Parameters**

- **s** – The string to search
- **lang** – “en” or “he”

**Return list** titles found in the string

**get\_toc** ()

Returns table of contents object from cache, DB or by generating it, as needed.

**get\_toc\_json** ()

Returns JSON representation of TOC.

**get\_toc\_tree** ()

**get\_wrapped\_refs\_string** (*st*, *lang=None*, *citing\_only=False*)

Returns a string with the list of Ref objects derived from string wrapped in <a> tags

**Parameters**

- **st** (*string*) – the input string
- **lang** – “he” or “en”
- **citing\_only** – boolean whether to use only records explicitly marked as being referenced in text

**Returns** string:

**rebuild** (*include\_toc=False*)

**rebuild\_toc** ()

**recount\_index\_in\_toc** (*indx*)

**ref\_auto\_completer** (*lang*)

**ref\_list** ()

**Returns** list of all section-level Refs in the library

**refresh\_index\_record\_in\_cache** (*index\_object*, *old\_title=None*)

Update library title dictionaries and caches for provided index :param title: primary title of index :return:

**remove\_index\_record\_from\_cache** (*index\_object=None*, *old\_title=None*, *rebuild=True*)

Update provided index from library title dictionaries and caches :param index\_object: :param old\_title: In the case of a title change - the old title of the Index record :param rebuild: Perform a rebuild of derivative objects afterwards? :return:

**reset\_simple\_term\_mapping** ()

**update\_index\_in\_toc** (*indx*, *old\_ref=None*)

**Parameters**

- **indx** –
- **old\_ref** –

**Returns**

**class** `sefaria.model.text.Ref` (*tref=None, \_obj=None*)

A Ref is a reference to a location. A location could be to a *book*, to a specific *segment* (e.g. verse or mishnah), to a *section* (e.g chapter), or to a *range*.

Instanced with a string representation of the reference, e.g.:

```
>>> Ref("Genesis 1:3")
>>> Ref("Rashi on Genesis 1:3")
>>> Ref("Genesis 1:3-2:4")
>>> Ref("Shabbat 4b")
>>> Ref("Rashi on Shabbat 4b-5a")
```

## Displaying Refs

`Ref.normal()`

**Return string** Normal English string form

`Ref.he_normal()`

**Return string** Normal Hebrew string form

`Ref.url()`

**Return string** normal url form

## Inspecting Refs

**static** `Ref.is_ref(tref)`

Static method for testing if a string is valid for instancing a Ref object.

**Parameters** `tref` (*string*) – the string to test

**Return bool**

Ref.**is\_commentary**()  
Is this a commentary reference?

**Return bool**

Ref.**is\_talmud**()  
Is this a Talmud reference?

**Return bool**

Ref.**is\_bavli**()  
Is this a Talmud Bavli or related text reference? :return bool:

Ref.**is\_range**()  
Is this reference a range?

A Ref is range if it's starting point and ending point are different, i.e. it has a dash in its text form. References can cover large areas of text without being a range - in the case where they are references to chapters.

```
>>> Ref("Genesis 3").is_range()
False
>>> Ref("Genesis 3-5").is_range()
True
```

**Return bool**

Ref.**is\_spanning**()

**Return bool** True if the Ref spans across text sections.

```
>>> Ref("Shabbat 13a-b").is_spanning()
True
>>> Ref("Shabbat 13a:3-14").is_spanning()
False
>>> Ref("Job 4:3-5:3").is_spanning()
True
>>> Ref("Job 4:5-18").is_spanning()
False
```

Ref.**is\_section\_level**()  
Is this Ref section (e.g. Chapter) level?

```
>>> Ref("Leviticus 15:3").is_section_level()
False
>>> Ref("Leviticus 15").is_section_level()
True
>>> Ref("Rashi on Leviticus 15:3").is_section_level()
True
>>> Ref("Rashi on Leviticus 15:3:1").is_section_level()
False
>>> Ref("Leviticus 15-17").is_section_level()
True
```

**Return bool**

`Ref.is_segment_level()`  
Is this Ref segment (e.g. Verse) level?

```
>>> Ref("Leviticus 15:3").is_segment_level()
True
>>> Ref("Leviticus 15").is_segment_level()
False
>>> Ref("Rashi on Leviticus 15:3").is_segment_level()
False
>>> Ref("Rashi on Leviticus 15:3:1").is_segment_level()
True
```

### Return bool

`Ref.range_depth()`  
How deep is the range?

```
>>> Ref("Leviticus 15:3 - 17:12").range_depth()
2
>>> Ref("Leviticus 15-17").range_depth()
2
>>> Ref("Leviticus 15:17-21").range_depth()
1
>>> Ref("Leviticus 15:17").range_depth()
0
```

### Return int

`Ref.range_index()`  
At what section index does the range begin?

```
>>> Ref("Leviticus 15:3 - 17:12").range_index()
0
>>> Ref("Leviticus 15-17").range_index()
0
>>> Ref("Leviticus 15:17-21").range_index()
1
>>> Ref("Leviticus 15:17").range_index()
2
```

### Return int

`Ref.range_list()`

**Returns** list of *Ref* objects corresponding to each point in the range of this *Ref*

`Ref.range_size()`  
How large is the range?

### Return int

`Ref.span_size()`  
How many sections does the span cover?

```
>>> Ref("Leviticus 15:3 - 17:12").span_size()
3
>>> Ref("Leviticus 15-17").span_size()
```

```
3
>>> Ref("Leviticus 15:17-21").span_size()
1
>>> Ref("Leviticus 15:17").span_size()
1
```

**Return int**

## Comparing Refs

`Ref.contains` (*other*)

Does this Ref completely contain other Ref?

**Parameters** *other* –

**Return bool**

`Ref.follows` (*other*)

Does this Ref completely follow other Ref?

**Parameters** *other* –

**Return bool**

`Ref.precedes` (*other*)

Does this Ref completely precede other Ref?

**Parameters** *other* –

**Return bool**

`Ref.overlaps` (*other*)

Does this Ref overlap other Ref?

**Parameters** *other* –

**Return bool**

`Ref.in_terms_of` (*other*)

Returns the current reference sections in terms of another, containing reference.

Returns an array of ordinal references, not array indexes. (Meaning first is 1)

Must be called on a point Reference, not a range

“”

```
>>> Ref("Genesis 6:3").in_terms_of("Genesis 6")
[3]
>>> Ref("Genesis 6:3").in_terms_of("Genesis")
[6, 3]
>>> Ref("Genesis 6:3").in_terms_of("Genesis 6-7")
[1, 3]
>>> Ref("Genesis 6:8").in_terms_of("Genesis 6:3-7:3")
[1, 6]
```

**Parameters** *other* – *Ref*

**Returns** array of indexes

`Ref.__eq__(other)`

`Ref.__ne__(other)`

## Deriving Refs from Refs

`Ref.padded_ref()`

**Returns** *Ref* with 1s inserted to make the *Ref* specific to the section level

```
>>> Ref("Genesis").padded_ref()
Ref("Genesis 1")
```

If this *Ref* is already specific to the section or segment level, it is returned unchanged.

```
>>> Ref("Genesis 1").padded_ref()
Ref("Genesis 1")
```

`Ref.subref(subsections)`

Returns a more specific reference than the current *Ref*

**Parameters** *subsection* – int or list - the subsection(s) of the current *Ref*

**Returns** *Ref*

`Ref.subrefs(length)`

Return a list of *Ref* objects one level deeper than this *Ref*, from 1 to *length*.

**Parameters** *length* – Number of subrefs to return

```
>>> Ref("Genesis").subrefs(4)
[Ref('Genesis 1'),
 Ref('Genesis 2'),
 Ref('Genesis 3'),
 Ref('Genesis 4')]
```

**Returns** List of *Ref*

`Ref.all_subrefs(lang='all')`

Return a list of all the valid *Ref* objects one level deeper than this *Ref*.

```
>>> Ref("Genesis").all_subrefs()
[Ref('Genesis 1'),
 Ref('Genesis 2'),
 Ref('Genesis 3'),
 Ref('Genesis 4'),
 ...]
```

**Returns** List of *Ref*

`Ref.context_ref(level=1)`

**Returns** *Ref* that is more general than this *Ref*.

**Parameters** *level* – how many levels to ‘zoom out’ from the most specific possible *Ref*

```
>>> Ref("Genesis 4:5").context_ref(level = 1)
Ref("Genesis 4")
>>> Ref("Genesis 4:5").context_ref(level = 2)
Ref("Genesis")
```

If this *Ref* is less specific than or equally specific to the level given, it is returned as-is.

**Ref.section\_ref()**

Return the section level Ref

For texts of depth 2, this has the same behavior as *top\_section\_ref()*

```
>>> Ref("Rashi on Genesis 2:3:1").section_ref()
Ref("Rashi on Genesis 2:3")
>>> Ref("Genesis 2:3").section_ref()
Ref("Genesis 2")
```

**Returns** *Ref*

**Ref.top\_section\_ref()**

Return the highest level section Ref.

For texts of depth 2, this has the same behavior as *section\_ref()*

```
>>> Ref("Rashi on Genesis 2:3:1").top_section_ref()
Ref("Rashi on Genesis 2")
>>> Ref("Genesis 2:3").top_section_ref()
Ref("Genesis 2")
```

**Returns** *Ref*

**Ref.starting\_ref()**

For ranged Refs, return the starting Ref

**Returns** *Ref*

**Ref.ending\_ref()**

For ranged Refs, return the ending Ref

**Returns** *Ref*

**Ref.split\_spanning\_ref()**

Return list of non-spanning *Ref* objects which completely cover the area of this Ref

```
>>> Ref("Shabbat 13b-14b").split_spanning_ref()
[Ref("Shabbat 13b"), Ref("Shabbat 14a"), Ref("Shabbat 14b")]
>>> Ref("Shabbat 13b:3 - 14b:3").split_spanning_ref()
[Ref('Shabbat 13b:3-50'), Ref('Shabbat 14a'), Ref('Shabbat 14b:1-3')]
```

**Ref.next\_section\_ref()**

Returns a Ref to the next section (e.g. Chapter).

If this is the last section, returns None

**Returns** *Ref*

**Ref.prev\_section\_ref()**

Returns a Ref to the previous section (e.g. Chapter).

If this is the first section, returns None

**Returns** *Ref*

`Ref.next_segment_ref()`

Returns a *Ref* to the next populated segment.

If this ref is not segment level, will return `self``

**Returns** *Ref*

`Ref.prev_segment_ref()`

Returns a *Ref* to the next previous populated segment.

If this ref is not segment level, will return `self``

**Returns** *Ref*

`Ref.last_segment_ref()`

Returns *Ref* to the last segment in the current book (or complex book part).

Not to be confused with `ending_ref()`

**Returns**

`Ref.surrounding_ref(size=1)`

Return a reference with ‘size’ additional segments added to each side.

Currently does not extend to sections beyond the original ref’s span.

**Parameters** `size(int)` –

**Returns** *Ref*

`Ref.to(toref)`

Return a reference that begins at this *Ref*, and ends at `toref`

**Parameters** `toref` – *Ref* that denotes the end of the new ranged *Ref*

**Returns** *Ref*

## Getting other data with Refs

`Ref.is_text_fully_available(lang)`

**Parameters** `lang` – “he” or “en”

**Returns** True if at least one complete version of ref is available in lang.

`Ref.is_text_translated()`

**Returns** True if at least one complete version of this *Ref* is available in English.

`Ref.regex(as_list=False, anchored=True)`

**Return string** for a Regular Expression which will find any refs that match this *Ref* exactly, or more specifically.

E.g., “Genesis 1” yields an RE that match “Genesis 1” and “Genesis 1:3”

`Ref.text(lang='en', vtitle=None, exclude_copyrighted=False)`

**Parameters**

- `lang` – “he” or “en”
- `vtitle` – optional. text title of the Version to get the text from

**Returns** *TextChunk* corresponding to this Ref

Ref.**versionset** (*lang=None*)

VersionSet of *Version* objects that have content for this Ref in lang, projected

**Parameters lang** – “he”, “en”, or None

**Returns** *VersionSet*

Ref.**version\_list** ()

A list of available text versions titles and languages matching this ref. If this ref is book level, decorate with the first available section of content per version.

**Return list** each list element is an object with keys ‘versionTitle’ and ‘language’

Ref.**linkset** ()

**Returns** *LinkSet* for this Ref

Ref.**noteset** (*public=True, uid=None*)

**Returns** *NoteSet* for this Ref

Ref.**condition\_query** (*lang=None*)

Return condition to select only versions with content at the location of this Ref. Usage:

```
VersionSet(oref.condition_query(lang))
```

Can be combined with *part\_projection()* to only return the content indicated by this ref:

```
VersionSet(oref.condition_query(lang), proj=oref.part_projection())
```

**Returns** dict containing a query in the format expected by *VersionSet*

Ref.**part\_projection** ()

Returns the slice and storage address to return top-level sections for Versions of this ref

Used as:

```
Version().load({...},oref.part_projection())
```

**Regarding projecting complex texts:** By specifying a projection that includes a non-existing element of our dictionary at the level of our selection, we cause all other elements of the dictionary to be unselected. A bit non-intuitive, but a huge savings of document size and time on the data transfer. <http://stackoverflow.com/a/15798087/213042>

Ref.**storage\_address** ()

Return the storage location within a Version for this Ref.

**Return string**

Ref.**get\_state\_ja** (*lang='all'*)

**Parameters lang** – “all”, “he”, or “en”

**Returns** *sefaria.datatype.jagged\_array*

Ref.**get\_state\_node** (*meta=None, hint=None*)

**Returns** *sefaria.model.version\_state.StateNode*

---

TextChunk and TextFamily

---

**class** `sefaria.model.text.TextChunk` (*oref*, *lang*='en', *vtitle*=None, *exclude\_copyrighted*=False)

A chunk of text corresponding to the provided *Ref*, language, and optional version name. If it is possible to get a more complete text by merging multiple versions, a merged result will be returned.

**Parameters**

- **oref** – *Ref*
- **lang** – “he” or “en”
- **vtitle** – optional. Title of the version desired.

`TextChunk.text`: The text itself

`TextChunk.is_merged`: (Boolean) is this a merged result?

`TextChunk.sources`: List of sources used to create this `TextChunk`

**class** `sefaria.model.text.TextFamily` (*oref*, *context*=1, *commentary*=True, *version*=None, *lang*=None, *pad*=True, *alts*=False, *wrapLinks*=False)

A text with its translations and optionally the commentary on it.

Can be instantiated with just the first argument.

**Parameters**

- **oref** – *Ref*. This is the only required argument.
- **context** (*int*) – Default: 1. How many context levels up to go when getting commentary. See `Ref.context_ref()`
- **commentary** (*bool*) – Default: True. Include commentary?
- **version** – optional. Name of version to use when getting text.
- **lang** – None, “en” or “he”. Default: None. If None, included both languages.
- **pad** (*bool*) – Default: True. Pads the provided ref before processing. See `Ref.padded_ref()`
- **alts** (*bool*) – Default: False. Adds notes of where alternate structure elements begin

TextFamily.text: The English language text

TextFamily.he: The Hebrew language text

**contents** ()

**Return dict** Returns the contents of the text family.

**class** sefaria.model.text.**Version** (*attrs=None*)

A version of a text.

Relates to a complete single record from the texts collection.

**required\_attrs** = ['language', 'title', 'versionSource', 'versionTitle', 'chapter']

**optional\_attrs** = ['status', 'priority', 'license', 'licenseVetted', 'versionNotes', 'digitizedBySefaria', 'method', 'hevers

**class** sefaria.model.text.**VersionSet** (*query={}, page=0, limit=0, sort=[['priority', -1], ['\_id', 1]], proj=None*)

A collection of *Version* objects



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## Index, and CommentaryIndex

---

**class** `sefaria.model.text.Index` (*attrs=None*)

Index objects define the names and structure of texts stored in the system. There is an Index object for every text.

**required\_attrs** = ['title', 'categories']

**optional\_attrs** = ['titleVariants', 'schema', 'sectionNames', 'heTitle', 'heTitleVariants', 'maps', 'alt\_structs', 'default']

**class** `sefaria.model.text.IndexSet` (*query={}, page=0, limit=0, sort=[('\_id', 1)], proj=None, hint=None*)

A set of *Index* objects.



**S**

`sefaria.model.text`, 1



## Symbols

`__eq__()` (sefaria.model.text.Ref method), 10

`__ne__()` (sefaria.model.text.Ref method), 11

## A

`add_index_record_to_cache()` (sefaria.model.text.Library method), 3

`all_index_records()` (sefaria.model.text.Library method), 3

`all_subrefs()` (sefaria.model.text.Ref method), 11

`all_titles_regex()` (sefaria.model.text.Library method), 3

`all_titles_regex_string()` (sefaria.model.text.Library method), 3

## B

`build_full_auto_completer()` (sefaria.model.text.Library method), 4

`build_ref_auto_completer()` (sefaria.model.text.Library method), 4

## C

`category_id_dict()` (sefaria.model.text.Library method), 4

`citing_title_list()` (sefaria.model.text.Library method), 4

`condition_query()` (sefaria.model.text.Ref method), 14

`contains()` (sefaria.model.text.Ref method), 10

`contents()` (sefaria.model.text.TextFamily method), 16

`context_ref()` (sefaria.model.text.Ref method), 11

## D

`delete_index_from_toc()` (sefaria.model.text.Library method), 4

## E

`ending_ref()` (sefaria.model.text.Ref method), 12

## F

`follows()` (sefaria.model.text.Ref method), 10

`full_auto_completer()` (sefaria.model.text.Library method), 4

`full_title_list()` (sefaria.model.text.Library method), 4

## G

`get_content_nodes()` (sefaria.model.text.Library method), 4

`get_dependant_indices()` (sefaria.model.text.Library method), 4

`get_index()` (sefaria.model.text.Library method), 4

`get_index_forest()` (sefaria.model.text.Library method), 4

`get_indexes_in_category()` (sefaria.model.text.Library method), 4

`get_indices_by_collective_title()` (sefaria.model.text.Library method), 4

`get_multi_title_regex_string()` (sefaria.model.text.Library method), 4

`get_refs_in_string()` (sefaria.model.text.Library method), 5

`get_regex_string()` (sefaria.model.text.Library method), 5

`get_schema_node()` (sefaria.model.text.Library method), 5

`get_search_filter_toc()` (sefaria.model.text.Library method), 5

`get_search_filter_toc_json()` (sefaria.model.text.Library method), 5

`get_simple_term_mapping()` (sefaria.model.text.Library method), 5

`get_state_ja()` (sefaria.model.text.Ref method), 14

`get_state_node()` (sefaria.model.text.Ref method), 14

`get_term_dict()` (sefaria.model.text.Library method), 5

`get_text_categories()` (sefaria.model.text.Library method), 5

`get_text_titles_json()` (sefaria.model.text.Library method), 5

`get_title_node_dict()` (sefaria.model.text.Library method), 5

`get_titles_in_string()` (sefaria.model.text.Library method), 5

`get_toc()` (sefaria.model.text.Library method), 6

`get_toc_json()` (sefaria.model.text.Library method), 6

`get_toc_tree()` (sefaria.model.text.Library method), 6

get\_wrapped\_refs\_string() (sefaria.model.text.Library method), 6

## H

he\_normal() (sefaria.model.text.Ref method), 7

## I

in\_terms\_of() (sefaria.model.text.Ref method), 10

Index (class in sefaria.model.text), 19

IndexSet (class in sefaria.model.text), 19

is\_bavli() (sefaria.model.text.Ref method), 8

is\_commentary() (sefaria.model.text.Ref method), 8

is\_range() (sefaria.model.text.Ref method), 8

is\_ref() (sefaria.model.text.Ref static method), 7

is\_section\_level() (sefaria.model.text.Ref method), 8

is\_segment\_level() (sefaria.model.text.Ref method), 8

is\_spanning() (sefaria.model.text.Ref method), 8

is\_talmud() (sefaria.model.text.Ref method), 8

is\_text\_fully\_available() (sefaria.model.text.Ref method), 13

is\_text\_translated() (sefaria.model.text.Ref method), 13

## L

last\_segment\_ref() (sefaria.model.text.Ref method), 13

Library (class in sefaria.model.text), 3

linkset() (sefaria.model.text.Ref method), 14

## N

next\_section\_ref() (sefaria.model.text.Ref method), 12

next\_segment\_ref() (sefaria.model.text.Ref method), 13

normal() (sefaria.model.text.Ref method), 7

noteset() (sefaria.model.text.Ref method), 14

## O

optional\_attrs (sefaria.model.text.Index attribute), 19

optional\_attrs (sefaria.model.text.Version attribute), 17

overlaps() (sefaria.model.text.Ref method), 10

## P

padded\_ref() (sefaria.model.text.Ref method), 11

part\_projection() (sefaria.model.text.Ref method), 14

precedes() (sefaria.model.text.Ref method), 10

prev\_section\_ref() (sefaria.model.text.Ref method), 12

prev\_segment\_ref() (sefaria.model.text.Ref method), 13

## R

range\_depth() (sefaria.model.text.Ref method), 9

range\_index() (sefaria.model.text.Ref method), 9

range\_list() (sefaria.model.text.Ref method), 9

range\_size() (sefaria.model.text.Ref method), 9

rebuild() (sefaria.model.text.Library method), 6

rebuild\_toc() (sefaria.model.text.Library method), 6

recount\_index\_in\_toc() (sefaria.model.text.Library method), 6

Ref (class in sefaria.model.text), 7

ref\_auto\_completer() (sefaria.model.text.Library method), 6

ref\_list() (sefaria.model.text.Library method), 6

refresh\_index\_record\_in\_cache() (sefaria.model.text.Library method), 6

regex() (sefaria.model.text.Ref method), 13

remove\_index\_record\_from\_cache() (sefaria.model.text.Library method), 6

required\_attrs (sefaria.model.text.Index attribute), 19

required\_attrs (sefaria.model.text.Version attribute), 17

reset\_simple\_term\_mapping() (sefaria.model.text.Library method), 6

## S

section\_ref() (sefaria.model.text.Ref method), 12

sefaria.model.text (module), 1

span\_size() (sefaria.model.text.Ref method), 9

split\_spanning\_ref() (sefaria.model.text.Ref method), 12

starting\_ref() (sefaria.model.text.Ref method), 12

storage\_address() (sefaria.model.text.Ref method), 14

subref() (sefaria.model.text.Ref method), 11

subrefs() (sefaria.model.text.Ref method), 11

surrounding\_ref() (sefaria.model.text.Ref method), 13

## T

text() (sefaria.model.text.Ref method), 13

TextChunk (class in sefaria.model.text), 15

TextFamily (class in sefaria.model.text), 15

to() (sefaria.model.text.Ref method), 13

top\_section\_ref() (sefaria.model.text.Ref method), 12

## U

update\_index\_in\_toc() (sefaria.model.text.Library method), 6

url() (sefaria.model.text.Ref method), 7

## V

Version (class in sefaria.model.text), 17

version\_list() (sefaria.model.text.Ref method), 14

VersionSet (class in sefaria.model.text), 17

versionset() (sefaria.model.text.Ref method), 14