
PyJSON5 Documentation

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CONTENTS

1	Installation	1
2	Table of Contents	3
2.1	Documents	3
2.2	Options	3
2.2.1	Getters	3
2.2.2	Setters	4
2.2.3	Iterators	5
2.2.4	Miscellaneous	5
2.2.5	Getters as methods	6
2.3	Nodes	6
2.3.1	Getters	6
2.3.2	Setters	8
2.3.3	Iterators	8
2.3.4	Miscellaneous	9
2.3.5	Getters as methods	9
2.4	Attributes	9
2.4.1	Getters	10
2.4.2	Methods	10
2.4.3	Iterators	11
2.4.4	Miscellaneous	11
2.4.5	Getters as methods	11
2.5	Messages	11
2.5.1	Getters	12
2.5.2	Iterators	14
2.5.3	Miscellaneous	14
2.5.4	Getters as methods	14
2.6	Messages arguments	15
2.6.1	Getters	15
2.6.2	Miscellaneous	15
2.6.3	Getters as methods	15
2.7	Enumerated values	16
2.7.1	Short summary	16
2.7.2	Values	16
2.8	Further functions	46
	Index	49

INSTALLATION

```
$ pip install pytidyhtml5
```


TABLE OF CONTENTS

2.1 Documents

`Document()`

2.2 Options

`pytidyhtml5.Option (Document document=None)`

An option that effects how a document will be serialized or deserialized.

2.2.1 Getters

`Option.id`

Returns the unique identifier for this option

Returns

- `pytidyhtml5.OptionId` – The unique identifier for this option.
- `int` – The library returned an unknown value.
- `None` – The option was not good anymore, see `__bool__()`.

`Option.name`

Returns the name of the option.

Returns

- `str` – The name of the option.
- `None` – The option was not good anymore, see `__bool__()`.

`Option.type`

Returns the value type of the option.

Returns

- `pytidyhtml5.OptionType` – The value type of the option.
- `int` – The library returned an unknown value.
- `None` – The option was not good anymore, see `__bool__()`.

Option.is_list

Returns whether the options has a picklist of values to chose from.

See also: `iter_picklist()`.

Returns

- *bool* – Yes or no
- *None* – The option was not good anymore, see `__bool__()`.

Option.is_readonly

Returns whether the options is read-only.

Returns

- *bool* – Yes or no
- *None* – The option was not good anymore, see `__bool__()`.

Option.category

Returns the category of the option.

Returns

- `pytidyhtml5.ConfigCategory` – The category of the option.
- *int* – The library returned an unknown value.
- *None* – The option was not good anymore, see `__bool__()`.

Option.default

Returns the default value of the option.

See also: `reset()`.

Returns

- *str|int|bool* – The default value of the option.
- *None* – The option was not good anymore, see `__bool__()`.

Option.value

Return the current value of the option.

Returns

- *str|int|bool* – The current value of the option.
- *None* – The option was not good anymore, see `__bool__()`.

2.2.2 Setters

Option.set_value(*self*, *value*)

Set the value of the option.

Parameters *value* (*str|bytes|int|bool|None*) – The new value. None resets the option to its default value.

Returns

- *bool* – True if the value was set.
- *None* – The option was not good anymore, see `__bool__()`.

Option.reset(*self*)

Reset the option to its default value.

Returns

- *bool* – True if the value was reset.
- *None* – The option was not good anymore, see `__bool__()`.

2.2.3 Iterators

`Option.__iter__()`

A tuple of `pytidyhtml5.Option.get_name()` and `pytidyhtml5.Option.get_value()`.

This function can be useful for debugging if want to see all options at once: `dict(document.iter_options())`.

Returns

- *tuple[str, str|int|bool]* – The name and value of the option.
- *tuple[None, None]* – The option was not good anymore, see `__bool__()`.

`Option.iter_picklist(self)`

Yields possible values for the option if the option is a picklick: `is_picklist`.

Yields *str* – A possible value. Warning: options that want an integral value return a string, too. The string contains a description and cannot be used verbatim in `pytidyhtml5.Option.set_value()`.

`Option.iter_linked_options(self)`

Yields related options.

This function is mostly meant for debugging purposes.

Yields *Option* – A related option.

2.2.4 Miscellaneous

`Option.__bool__()`

An Option is truthy if it has an assigned TidyOption (i.e. if it was created by some Document method), and the document has not been released in the meantime.

`Option.__len__()`

Returns if `__iter__()` will be useful.

Returns 2 if the option is good, otherwise 0.

Return type *int*

`Option.__eq__()`

Compares the underlying pointer.

If you get the same option twice from a document, you will have two distinct *Option* instances that compare equal.

`Option.__ne__()`

Simply not `(self == other)`

2.2.5 Getters as methods

All getters exist as methods, too:

<code>get_id(self)</code>	Returns the unique identifier for this option
<code>get_name(self)</code>	Returns the name of the option.
<code>get_type(self)</code>	Returns the value type of the option.
<code>get_is_list(self)</code>	Returns whether the options has a picklist of values to chose from.
<code>get_is_readonly(self)</code>	Returns whether the options is read-only.
<code>get_category(self)</code>	Returns the category of the option.
<code>get_default(self)</code>	Returns the default value of the option.
<code>get_value(self)</code>	Return the current value of the option.

2.3 Nodes

`pytidyhtml5.Node` (*Document document=None*)

A node in the deserialized document.

This includes text nodes, processing instructions and more, cf. [NodeType](#).

2.3.1 Getters

`Node.parent`

Returns the parent node.

Returns

- `pytidyhtml5.Node` – The parent node.
- `None` – If `self.type == NodeType.root` or `not bool(self)`.

`Node.child`

Returns the first child node.

Returns

- `pytidyhtml5.Node` – The first child node.
- `None` – If `not bool(self)` or the if `self` has no children.

`Node.next`

Returns the next sibling node.

Returns

- `pytidyhtml5.Node` – The next child sibling node.
- `None` – If `not bool(self)` or there are no further siblings.

`Node.prev`

Returns the previous sibling node.

Returns

- `pytidyhtml5.Node` – The previous child sibling node.
- `None` – If `not bool(self)` or there are no prior siblings.

Node.attr_first

Returns the first attribute.

Returns

- *pytidyhtml5.Attr* – The first attribute.
- *None* – If `not bool(self)` or the if `self` has no attributes.

Node.name

Returns the tag name of the current node.

Returns

- *str* – Tag name of the current node.
- *None* – If the node was falsy or the node does not have a name.

Node.position

Returns a tuple of the position in the input stream.

Returns

- *tuple* – line and column
- *None* – If the node was falsy.

Node.is_text

Returns whether the current node is a text node.

Same as `self.type is NodeType.Text`.

Returns

- *bool* – Yes or no.
- *None* – If the node was falsy.

Node.id

Returns the tag of the current node numerically.

Returns

- *pytidyhtml5.TagId* – Id of the current tag.
- *int* – The result was not understood. Is the loaded tidy.so newer than this wrapper?
- *None* – `not bool(self)`

Node.type

Returns the type of the current node.

Returns

- *pytidyhtml5.NodeType* – Id of the current node type.
- *int* – The result was not understood. Is the loaded tidy.so newer than this wrapper?
- *None* – `not bool(self)`

2.3.2 Setters

Node.**discard**(*self*)

Removes the current not from the document.

If the have a second reference to the current node, then don't use it anymore. In the best case the program will only crash.

Returns

- *pytidyhtml5.Node* – The next sibling. The result may be falsy, if the discarded node was the last node.
- *None* – If `not bool(self)`.

2.3.3 Iterators

Node.**iter_attrs**(*self*)

Yield the attributes of the current node.

Essentially the same as

```
attr = self.get_attr_first()
while attr:
    yield attr
    attr = attr.get_next()
```

Expect undefined behavior if you alter the tree during an iteration.

Yields *pytidyhtml5.Attr* – Attributes of the current node.

Node.**iter_children**(*self*)

Yield the children of the current node.

Essentially the same as

```
node = self.get_child()
while node:
    yield node
    node = node.get_next()
```

Expect undefined behavior if you alter the tree during an iteration.

Yields *pytidyhtml5.Node* – Children of the current node.

Node.**attr**

A proxy for easier access of the node's attributes.

E.g.

```
self.attr['id']           # retrieve attribute value
self.attr['id'] = 'some_value' # set attribute value
del self.attr['id']        # discard attribute

set(self.attr) == { AttrId.ALT, ... } # Iterate over set ids
```

Node.**attr**

A proxy for easier access of the node's attributes.

E.g.

```

self.attr['id']           # retrieve attribute value
self.attr['id'] = 'some_value' # set attribute value
del self.attr['id']       # discard attribute

set(self.attr) == { AttrId.ALt, ... } # Iterate over set ids

```

2.3.4 Miscellaneous

Node.**__bool__**()

A Node is truthy if it has an assigned TidyNode (i.e. if it was created by some Document method), and the document has not been released in the meantime.

Node.**__eq__**()

Compares the underlying node.

If you get the same node twice from a document, you will have two distinct `pytidyhtml5.Node` instances that compare equal.

Node.**__ne__**()

Simply not (self == other)

2.3.5 Getters as methods

All getters exist as methods, too:

<code>pytidyhtml5.Node.get_parent(self)</code>	Returns the parent node.
<code>pytidyhtml5.Node.get_child(self)</code>	Returns the first child node.
<code>pytidyhtml5.Node.get_next(self)</code>	Returns the next sibling node.
<code>pytidyhtml5.Node.get_prev(self)</code>	Returns the previous sibling node.
<code>pytidyhtml5.Node.get_attr_first(self)</code>	Returns the first attribute.
<code>pytidyhtml5.Node.get_name(self)</code>	Returns the tag name of the current node.
<code>pytidyhtml5.Node.get_position(self)</code>	Returns a tuple of the position in the input stream.
<code>pytidyhtml5.Node.get_is_text(self)</code>	Returns whether the current node is a text node.
<code>pytidyhtml5.Node.get_tag_id(self)</code>	Returns the tag of the current node numerically.
<code>pytidyhtml5.Node.get_node_type(self)</code>	Returns the type of the current node.

2.4 Attributes

`pytidyhtml5.Attr (Node node=None)`

An HTML attribute of a `pytidyhtml5.Node`.

2.4.1 Getters

`Attr.node`

Related node.

`Attr.name`

Name of the attribute.

Returns

- *str* – Name of the attribute
- *None* – self is falsy

`Attr.value`

Value of the attribute

Returns

- *str* – Value of the attribute
- *None* – self is falsy

`Attr.id`

Numerical ID of the attribute.

Returns

- *TidyAttrId* – ID of the attribute
- *int* – The library reported an unknown value
- *None* – self is falsy

`Attr.is_event`

Returns whether the attribute is a JavaScript handler, e.g. onclick.

Returns

- *bool* – Yes or no
- *None* – self is falsy

2.4.2 Methods

`Attr.get_next` (*self*)

The the next attribute of the Node.

Returns

- *Attr* – The next attribute. Falsy if there was no further attribute.
- *None* – self is falsy

2.4.3 Iterators

`Attr.__iter__()`

Yields name and value

Yields

- *str* – Name and value
- *None* – self is falsy

2.4.4 Miscellaneous

`Attr.__bool__()`

An Attr is truthy if the attribute exists and the Node did not expire.

`Attr.__eq__()`

An Attr compares equal if the underlying attributes are the same, i.e. same attribute in the same Node in the same Document.

`Attr.__ne__()`

Simply not (`self == other`)

`Attr.__len__()`

Length of the attribute iterator.

Returns 2 if `bool(self)` else 0

Return type `int`

2.4.5 Getters as methods

All getters exist as methods, too:

<code>pytidyhtml5.Attr.get_node(self)</code>	Related node.
<code>pytidyhtml5.Attr.get_name(self)</code>	Name of the attribute.
<code>pytidyhtml5.Attr.get_value(self)</code>	Value of the attribute
<code>pytidyhtml5.Attr.get_id(self)</code>	Numerical ID of the attribute.
<code>pytidyhtml5.Attr.get_is_event(self)</code>	Returns whether the attribute is a JavaScript handler, e.g.

2.5 Messages

`pytidyhtml5.Message(Document document)`

Instances that get passed to `pytidyhtml5.Document.message_callback`.

2.5.1 Getters

`Message.document`

The assigned document.

`Message.default`

Get the message with the format string already completed, in Tidy's default localization.

Returns

- *str* – Default message string.
- *None* – The message expired, i.e. the callback was already left.

`Message.message`

Get the message with the format string already completed, in Tidy's current localization.

Returns

- *str* – Default message string.
- *None* – The message expired, i.e. the callback was already left.

`Message.format_default`

Get the default format string, which is the format string for the message in Tidy's default localization (en_us).

Returns

- *str* – Default format string
- *None* – The message expired, i.e. the callback was already left.

`Message.format`

Get the localized format string. If a localized version of the format string doesn't exist, then the default version will be returned.

Returns

- *str* – Default localized string
- *None* – The message expired, i.e. the callback was already left.

`Message.pos_default`

Get the position part of the message in the default language.

Returns

- *str* – position part
- *None* – The message expired, i.e. the callback was already left.

`Message.pos`

Get the position part of the message in the current language.

Returns

- *str* – position part
- *None* – The message expired, i.e. the callback was already left.

`Message.prefix_default`

Get the prefix part of a message in the default localization.

Returns

- *str* – prefix part
- *None* – The message expired, i.e. the callback was already left.

Message.prefix

Get the prefix part of a message in the current language.

Returns

- *str* – prefix part
- *None* – The message expired, i.e. the callback was already left.

Message.output_default

Get the complete message as Tidy would emit it in the default language.

Returns

- *str* – complete message
- *None* – The message expired, i.e. the callback was already left.

Message.output

Get the complete message as Tidy would emit it in the current localization.

Returns

- *str* – complete message
- *None* – The message expired, i.e. the callback was already left.

Message.code

Get the message code.

This method is not useful. :-)

Returns

- *int* – Message code
- *None* – The message expired, i.e. the callback was already left.

Message.key

Get the message key string.

Returns

- *str* – Message key
- *None* – The message expired, i.e. the callback was already left.

Message.position

Get the line number and column the message applies to.

Returns

- *tuple[int, int]* – Line number and column
- *None* – The message expired, i.e. the callback was already left.

Message.is_muted

Get the muted status of the message, that is, whether or not the current configuration indicated that this message should be muted.

Returns

- *bool* – True if muted
- *None* – The message expired, i.e. the callback was already left.

Message.level

Get the TidyReportLevel of the message.

Returns

- `pytidyhtml5.ReportLevel` – Report level
- `None` – The message expired, i.e. the callback was already left.

2.5.2 Iterators

`Message.iter_args(self)`

An iterator yielding `pytidyhtml5.MessageArg` objects.

Yields `pytidyhtml5.MessageArg` – Arguments for the current message.

`Message.iter_values(self)`

An iterator yielding argument values.

Functionally equivalent to:

```
for arg in self.iter_args():
    yield arg.value
```

Yields `int|str|float` – Argument value

2.5.3 Miscellaneous

`Message.__bool__()`

A Message is only valid in its callback. After the callback returns, no values can be queried anymore.

2.5.4 Getters as methods

All getters exist as methods, too:

<code>pytidyhtml5.Message.get_document(self)</code>	The assigned document.
<code>pytidyhtml5.Message.get_default(self)</code>	Get the message with the format string already completed, in Tidy's default localization.
<code>pytidyhtml5.Message.get_message(self)</code>	Get the message with the format string already completed, in Tidy's current localization.
<code>pytidyhtml5.Message.get_format_default(self)</code>	Get the default format string, which is the format string for the message in Tidy's default localization (en_us).
<code>pytidyhtml5.Message.get_format(self)</code>	Get the localized format string.
<code>pytidyhtml5.Message.get_pos_default(self)</code>	Get the position part part of the message in the default language.
<code>pytidyhtml5.Message.get_pos(self)</code>	Get the position part part of the message in the current language.
<code>pytidyhtml5.Message.get_prefix_default(self)</code>	Get the prefix part of a message in the default localization.
<code>pytidyhtml5.Message.get_prefix(self)</code>	Get the prefix part of a message in the current language.
<code>pytidyhtml5.Message.get_output_default(self)</code>	Get the complete message as Tidy would emit it in the default language.
<code>pytidyhtml5.Message.get_output(self)</code>	Get the complete message as Tidy would emit it in the current localization.
<code>pytidyhtml5.Message.get_code(self)</code>	Get the message code.

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<code>pytidyhtml5.Message.get_key(self)</code>	Get the message key string.
<code>pytidyhtml5.Message.get_position(self)</code>	Get the line number and column the message applies to.
<code>pytidyhtml5.Message.get_is_muted(self)</code>	Get the muted status of the message, that is, whether or not the current configuration indicated that this message should be muted.
<code>pytidyhtml5.Message.get_level(self)</code>	Get the TidyReportLevel of the message.

2.6 Messages arguments

`pytidyhtml5.MessageArg` (*Message message*)
 A `pytidyhtml5.Message` format value.

2.6.1 Getters

`MessageArg.type`
 Type of the argument's value.

Returns

- `pytidyhtml.FormatParameterType` – The value type.
- *None* – The message expired.

`MessageArg.value`
 Value of the argument.

Returns

- *int|str|float* – The value.
- *None* – The message expired.

`MessageArg.format`
 C format string to format the value.

2.6.2 Miscellaneous

`MessageArg.__bool__()`
 A `MessageArg` is truthy iff its `Message` is truthy.

2.6.3 Getters as methods

All getters exist as methods, too:

<code>pytidyhtml5.MessageArg.get_type(self)</code>	Type of the argument's value.
<code>pytidyhtml5.MessageArg.get_value(self)</code>	Value of the argument.
<code>pytidyhtml5.MessageArg.get_format(self)</code>	C format string to format the value.

2.7 Enumerated values

2.7.1 Short summary

<i>AttrId</i> (value)	An enumeration.
<i>AttrSortStrategy</i> (value)	An enumeration.
<i>ConfigCategory</i> (value)	An enumeration.
<i>DoctypeModes</i> (value)	An enumeration.
<i>DupAttrModes</i> (value)	An enumeration.
<i>EncodingOptions</i> (value)	An enumeration.
<i>FormatParameterType</i> (value)	An enumeration.
<i>LineEnding</i> (value)	An enumeration.
<i>NodeType</i> (value)	An enumeration.
<i>OptionId</i> (value)	An enumeration.
<i>OptionType</i> (value)	An enumeration.
<i>ParseOutcome</i> (value)	An enumeration.
<i>ReportLevel</i> (value)	An enumeration.
<i>Strings</i> (value)	An enumeration.
<i>TagId</i> (value)	An enumeration.
<i>TriState</i> (value)	An enumeration.
<i>Uppercase</i> (value)	An enumeration.
<i>UseCustomTagsState</i> (value)	An enumeration.

2.7.2 Values

```
class pytidyhtml5.OptionId(value)
    An enumeration.

    accessibility_check_level = 1
    alt_text = 2
    anchor_as_name = 3
    ascii_chars = 4
    block_tags = 5
    body_only = 6
    break_before_br = 7
    char_encoding = 8
    coerce_end_tags = 9
    css_prefix = 10
    custom_tags = 11
    decorate_inferred_ul = 12
    doctype = 13
    doctype_mode = 14
    drop_empty_elems = 15
```

`drop_empty_paras = 16`
`drop_prop_attrs = 17`
`duplicate_attrs = 18`
`emacs = 19`
`emacs_file = 20`
`empty_tags = 21`
`enclose_block_text = 22`
`enclose_body_text = 23`
`err_file = 24`
`escape_cdata = 25`
`escape_scripts = 26`
`fix_backslash = 27`
`fix_comments = 28`
`fix_uri = 29`
`force_output = 30`
`g_doc_clean = 31`
`hide_comments = 32`
`html_out = 33`
`in_char_encoding = 34`
`indent_attributes = 35`
`indent_cdata = 36`
`indent_content = 37`
`indent_spaces = 38`
`inline_tags = 39`
`join_classes = 40`
`join_styles = 41`
`keep_file_times = 42`
`keep_tabs = 43`
`literal_attrbs = 44`
`logical_emphasis = 45`
`lower_literals = 46`
`make_bare = 47`
`make_clean = 48`
`mark = 49`
`merge_divs = 50`
`merge_emphasis = 51`

merge_spans = 52
meta_charset = 53
mute_reports = 54
mute_show = 55
ncr = 56
newline = 57
num_entities = 58
omit_optional_tags = 59
out_char_encoding = 60
out_file = 61
output_bom = 62
p_print_tabs = 63
pre_tags = 65
preserve_entities = 64
priority_attributes = 66
punct_wrap = 67
quiet = 68
quote_ampersand = 69
quote_marks = 70
quote_nbsp = 71
replace_color = 72
show_errors = 73
show_filename = 74
show_info = 75
show_markup = 76
show_meta_change = 77
show_warnings = 78
skip_nested = 79
sort_attributes = 80
strict_tags_attr = 81
style_tags = 82
tab_size = 83
unknown_option = 0
upper_case_attrs = 84
upper_case_tags = 85
use_custom_tags = 86

```
vert_space = 87
warn_prop_attrs = 88
word2000 = 89
wrap_asp = 90
wrap_att_vals = 91
wrap_jste = 92
wrap_len = 93
wrap_php = 94
wrap_scriptlets = 95
wrap_section = 96
write_back = 97
xhtml_out = 98
xml_decl = 99
xml_out = 100
xml_p_is = 101
xml_space = 102
xml_tags = 103

class pytidyhtml5.ConfigCategory(value)
    An enumeration.

    diagnostics = 301
    display = 302
    document_io = 303
    encoding = 304
    file_io = 305
    internal_category = 312
    markup_cleanup = 306
    markup_entities = 307
    markup_repair = 308
    markup_teach = 309
    markup_x_form = 310
    pretty_print = 311
    unknown_category = 300

class pytidyhtml5.OptionType(value)
    An enumeration.

    boolean = 2
    integer = 1
    string = 0
```

```
class pytidyhtml5.TriState(value)
    An enumeration.

    auto = 2
    no = 0
    yes = 1

class pytidyhtml5.UseCustomTagsState(value)
    An enumeration.

    blocklevel = 1
    empty = 2
    inline = 3
    no = 0
    pre = 4

class pytidyhtml5.LineEnding(value)
    An enumeration.

    cr = 2
    crlf = 1
    lf = 0

class pytidyhtml5.EncodingOptions(value)
    An enumeration.

    ascii = 1
    big5 = 12
    ibm858 = 8
    iso2022 = 5
    latin0 = 2
    latin1 = 3
    mac = 6
    raw = 0
    shiftjis = 13
    utf16 = 11
    utf16be = 10
    utf16le = 9
    utf8 = 4
    win1252 = 7

class pytidyhtml5.DoctypeModes(value)
    An enumeration.

    auto = 2
    html5 = 0
    loose = 4
```



```
omit = 1
strict = 3
user = 5
class pytidyhtml5.DupAttrModes(value)
    An enumeration.
    keep_first = 0
    keep_last = 1
class pytidyhtml5.AttrSortStrategy(value)
    An enumeration.
    alpha = 1
    none = 0
class pytidyhtml5.Uppercase(value)
    An enumeration.
    no = 0
    preserve = 2
    yes = 1
class pytidyhtml5.NodeType(value)
    An enumeration.
    asp = 10
    cdata = 8
    comment = 2
    doc_type = 1
    end = 6
    jste = 11
    php = 12
    proc_ins = 3
    root = 0
    section = 9
    start = 5
    start_end = 7
    text = 4
    xml_decl = 13
class pytidyhtml5.TagId(value)
    An enumeration.
    a = 1
    abbr = 2
    acronym = 3
    address = 4
```

`align` = 5
`applet` = 6
`area` = 7
`article` = 123
`aside` = 124
`audio` = 125
`b` = 8
`base` = 9
`basefont` = 10
`bdi` = 126
`bdo` = 11
`bgsound` = 12
`big` = 13
`blink` = 14
`blockquote` = 15
`body` = 16
`br` = 17
`button` = 18
`canvas` = 127
`caption` = 19
`center` = 20
`cite` = 21
`code` = 22
`col` = 23
`colgroup` = 24
`command` = 128
`comment` = 25
`data` = 129
`datalist` = 130
`dd` = 26
`del_` = 27
`details` = 131
`dfn` = 28
`dialog` = 132
`dir` = 29
`div` = 30

```
dl = 31
dt = 32
em = 33
embed = 34
fieldset = 35
figcaption = 133
figure = 134
font = 36
footer = 135
form = 37
frame = 38
frameset = 39
h1 = 40
h2 = 41
h3 = 42
h4 = 43
h5 = 44
h6 = 45
head = 46
header = 136
hgroup = 137
hr = 47
html = 48
i = 49
iframe = 50
ilayer = 51
img = 52
input = 53
ins = 54
isindex = 55
kbd = 56
keygen = 57
label = 58
layer = 59
legend = 60
li = 61
```

link = 62
listing = 63
main = 138
map = 64
mark = 139
marquee = 66
mathml = 65
menu = 67
menuitem = 140
meta = 68
meter = 141
multicol = 69
nav = 142
nextid = 122
noabr = 70
noembed = 71
noframes = 72
nolayer = 73
nosave = 74
noscript = 75
object = 76
ol = 77
optgroup = 78
option = 79
output = 143
p = 80
param = 81
picture = 82
plaintext = 83
pre = 84
progress = 144
q = 85
rb = 86
rbc = 87
rp = 88
rt = 89

```
rtc = 90
ruby = 91
s = 92
samp = 93
script = 94
section = 145
select = 95
server = 96
servlet = 97
slot = 152
small = 98
source = 146
spacer = 99
span = 100
strike = 101
strong = 102
style = 103
sub = 104
summary = 147
sup = 105
svg = 106
table = 107
tbody = 108
td = 109
template = 148
textarea = 110
tfoot = 111
th = 112
thead = 113
time = 149
title = 114
tr = 115
track = 150
tt = 116
u = 117
ul = 118
```

```
unknown = 0
var = 119
video = 151
wbr = 120
xmp = 121
class pytidyhtml5.AttrId(value)
    An enumeration.
    abbr = 1
    about = 319
    accept = 2
    accept_charset = 3
    accesskey = 4
    action = 5
    add_date = 6
    align = 7
    alink = 8
    allowfullscreen = 9
    alt = 10
    archive = 11
    aria_activedescendant = 275
    aria_atomic = 276
    aria_autocomplete = 277
    aria_busy = 278
    aria_checked = 279
    aria_controls = 280
    aria_describedby = 281
    aria_disabled = 282
    aria_dropeffect = 283
    aria_expanded = 284
    aria_flowto = 285
    aria_grabbed = 286
    aria_haspopup = 287
    aria_hidden = 288
    aria_invalid = 289
    aria_label = 290
    aria_labelledby = 291
```

aria_level = 292
aria_live = 293
aria_multiline = 294
aria_multiselectable = 295
aria_orientation = 296
aria_owns = 297
aria_posinset = 298
aria_pressed = 299
aria_readonly = 300
aria_relevant = 301
aria_required = 302
aria_selected = 303
aria_setsize = 304
aria_sort = 305
aria_valuemax = 306
aria_valuemin = 307
aria_valuenow = 308
aria_valuetext = 309
as_ = 328
async_ = 173
autocomplete = 174
autofocus = 175
autoplay = 176
axis = 12
background = 13
baseprofile = 315
bgcolor = 14
bgproperties = 15
border = 16
bordercolor = 17
bottommargin = 18
cellpadding = 19
cellspacing = 20
challenge = 177
char = 21
charoff = 22

charset = 23
checked = 24
cite = 25
class_ = 26
classid = 27
clear = 28
code = 29
codebase = 30
codetype = 31
color = 32
colorinterpolation = 341
colorrendering = 342
cols = 33
colspan = 34
compact = 35
content = 36
contenteditable = 178
contentscripttype = 316
contentstyletype = 317
contextmenu = 179
controls = 180
coords = 37
crossorigin = 181
data = 38
datafld = 39
dataformatas = 40
datapagesize = 41
datasrc = 42
datatype = 320
datetime = 43
declare = 44
default = 182
defer = 45
dir = 46
dirname = 183
disabled = 47

display = 318
download = 48
draggable = 184
dropzone = 185
encoding = 49
enctype = 50
event = 166
face = 51
fill = 332
fillocapacity = 345
fillrule = 333
for_ = 52
form = 186
formaction = 187
formenctype = 188
formmethod = 189
formnovalidate = 190
formtarget = 191
frame = 53
frameborder = 54
framespacing = 55
gridx = 56
gridy = 57
headers = 58
height = 59
hidden = 192
high = 193
href = 60
hreflang = 61
hspace = 62
http_equiv = 63
icon = 194
id = 64
inlist = 321
integrity = 327
is_ = 65

ismap = 66
itemid = 67
itemprop = 68
itemref = 69
itemscope = 70
itemtype = 71
keytype = 195
kind = 196
label = 72
lang = 73
language = 74
last_modified = 75
last_visit = 76
leftmargin = 77
link = 78
list = 197
loading = 331
longdesc = 79
loop = 198
low = 199
lowsrc = 80
manifest = 200
marginheight = 81
marginwidth = 82
max = 201
maxlength = 83
media = 84
mediagroup = 202
method = 85
methods = 167
min = 203
multiple = 86
muted = 204
n = 168
name = 87
nohref = 88

```
noresize = 89
noshade = 90
novalidate = 205
nowrap = 91
object = 92
on_abort = 208
on_afterprint = 209
on_afterupdate = 93
on_beforeprint = 210
on_beforeunload = 94
on_beforeupdate = 95
on_blur = 96
on_canplay = 211
on_canplaythrough = 212
on_change = 97
on_click = 98
on_contextmenu = 213
on_cuechange = 214
on_dataavailable = 99
on_datasetchanged = 100
on_datasetcomplete = 101
on_dblclick = 102
on_drag = 215
on_dragend = 216
on_dragenter = 217
on_dragleave = 218
on_dragover = 219
on_dragstart = 220
on_drop = 221
on_durationchange = 222
on_emptied = 223
on_ended = 224
on_error = 225
on_errorupdate = 103
on_focus = 104
on_hashchange = 226
```

`on_input` = 227
`on_invalid` = 228
`on_keydown` = 105
`on_keypress` = 106
`on_keyup` = 107
`on_load` = 108
`on_loadeddata` = 229
`on_loadedmetadata` = 230
`on_loadstart` = 231
`on_message` = 232
`on_mousedown` = 109
`on_mousemove` = 110
`on_mouseout` = 111
`on_mouseover` = 112
`on_mouseup` = 113
`on_mousewheel` = 233
`on_offline` = 234
`on_online` = 235
`on_pagehide` = 236
`on_pageshow` = 237
`on_pause` = 238
`on_play` = 239
`on_playing` = 240
`on_popstate` = 241
`on_progress` = 242
`on_ratechange` = 243
`on_readystatechange` = 244
`on_redo` = 245
`on_reset` = 114
`on_resize` = 246
`on_rowenter` = 115
`on_rowexit` = 116
`on_scroll` = 247
`on_seeked` = 248
`on_seeking` = 249
`on_select` = 117

on_show = 250
on_stalled = 251
on_storage = 252
on_submit = 118
on_suspend = 253
on_timeupdate = 254
on_undo = 255
on_unload = 119
on_volumechange = 256
on_waiting = 257
opacity = 343
open = 206
optimum = 207
pattern = 258
placeholder = 259
playsinline = 260
poster = 261
prefix = 322
preload = 262
preserveaspectratio = 313
profile = 120
prompt = 121
property = 323
pubdate = 263
radiogroup = 264
rbspan = 122
readonly = 123
rel = 124
required = 265
resource = 324
rev = 125
reversed = 266
rightmargin = 126
role = 127
rows = 128
rowspan = 129

rules = 130
sandbox = 267
scheme = 131
scope = 132
scoped = 268
scrolling = 133
sdaform = 169
sdapref = 170
sdasuff = 171
seamless = 269
selected = 134
shape = 135
showgrid = 136
showgridx = 137
showgridy = 138
size = 139
sizes = 270
slot = 330
span = 140
spellcheck = 271
src = 141
srcdoc = 272
srclang = 273
srcset = 142
standby = 143
start = 144
step = 274
stroke = 334
strokedasharray = 335
strokedashoffset = 336
strokelinecap = 337
strokelinejoin = 338
strokemiterlimit = 339
strokeopacity = 344
strokewidth = 340
style = 145

```
summary = 146
tabindex = 147
target = 148
text = 149
title = 150
topmargin = 151
translate = 152
type = 153
typeof = 325
unknown = 0
urn = 172
usemap = 154
valign = 155
value = 156
valuetype = 157
version = 158
viewbox = 312
vlink = 159
vocab = 326
vspace = 160
width = 161
wrap = 162
x = 310
xml_lang = 163
xml_space = 164
xmlns = 165
xmlnsxlink = 329
y = 311
zoomandpan = 314
```

class pytidyhtml5.ReportLevel(*value*)
An enumeration.

```
access = 353
bad_document = 355
config = 352
dialogue_doc = 359
dialogue_info = 358
```

```
    dialogue_summary = 357
    error = 354
    fatal = 356
    info = 350
    warning = 351
class pytidyhtml5.FormatParameterType(value)
    An enumeration.
    double = 3
    int = 0
    string = 2
    uint = 1
    unknown = 20
class pytidyhtml5.Strings(value)
    An enumeration.
    added_missing_charset = 546
    anchor_duplicated = 548
    anchor_not_unique = 547
    apos_undefined = 549
    applet_missing_alt = 670
    area_missing_alt = 679
    ascii_requires_description = 681
    associate_labels_explicitly = 770
    associate_labels_explicitly_for = 771
    associate_labels_explicitly_id = 772
    attr_value_not_lcase = 550
    attribute_is_not_allowed = 551
    attribute_value_replaced = 552
    audio_missing_text_aiff = 674
    audio_missing_text_au = 673
    audio_missing_text_ra = 676
    audio_missing_text_rm = 677
    audio_missing_text_snd = 675
    audio_missing_text_wav = 672
    backslash_in_uri = 553
    bad_attribute_value = 555
    bad_attribute_value_replaced = 554
    bad_cdata_content = 556
```



```
bad_summary_html5 = 557
bad_surrogate_lead = 558
bad_surrogate_pair = 559
bad_surrogate_tail = 560
blank_title_element = 659
cant_be_nested = 561
coerce_to_endtag = 562
color_contrast_active_link = 692
color_contrast_link = 691
color_contrast_text = 690
color_contrast_visited_link = 693
content_after_body = 563
custom_tag_detected = 564
data_table_missing_headers = 706
data_table_missing_headers_column = 707
data_table_missing_headers_row = 708
data_table_require_markup_column_headers = 709
data_table_require_markup_row_headers = 710
discarding_unexpected = 565
doctype_after_tags = 566
doctype_missing = 694
duplicate_frameset = 567
element_not_empty = 568
element_vers_mismatch_error = 569
element_vers_mismatch_warn = 570
encoding_mismatch = 571
ensure_programmatic_objects_accessible_applet = 746
ensure_programmatic_objects_accessible_embed = 747
ensure_programmatic_objects_accessible_object = 745
ensure_programmatic_objects_accessible_script = 744
escaped_illegal_uri = 572
file_cant_open = 573
file_cant_open_cfg = 574
file_not_file = 575
fixed_backslash = 576
fn_line_column_string = 502
```

```
footnote_trim_empty_element = 517
found_style_in_body = 577
frame_missing_longdesc = 678
frame_missing_noframes = 732
frame_missing_title = 767
frame_src_invalid = 724
frame_title_invalid_null = 768
frame_title_invalid_spaces = 769
header_used_format_text = 700
headers_improperly_nested = 696
id_name_mismatch = 578
illegal_nesting = 579
illegal_uri_codepoint = 580
illegal_uri_reference = 581
image_map_server_side_requires_conversion = 748
img_alt_suspicious_file_size = 663
img_alt_suspicious_filename = 662
img_alt_suspicious_placeholder = 664
img_alt_suspicious_too_long = 665
img_button_missing_alt = 669
img_map_client_missing_text_links = 684
img_map_server_requires_text_links = 682
img_missing_alt = 661
img_missing_dlink = 667
img_missing_longdesc = 668
img_missing_longdesc_dlink = 666
information_not_conveyed_applet = 686
information_not_conveyed_image = 685
information_not_conveyed_input = 689
information_not_conveyed_object = 687
information_not_conveyed_script = 688
inserting_auto_attribute = 582
inserting_tag = 583
invalid_attribute = 584
invalid_ncr = 585
invalid_sgml_chars = 586
```

```
invalid_utf16 = 588
invalid_utf8 = 587
invalid_xml_id = 589
joining_attribute = 590
language_invalid = 705
language_not_identified = 704
layout_table_invalid_markup = 712
layout_tables_linearize_properly = 711
line_column_string = 501
link_text_missing = 774
link_text_not_meaningful = 773
link_text_not_meaningful_click_here = 776
link_text_too_long = 775
list_usage_invalid_li = 703
list_usage_invalid_ol = 702
list_usage_invalid_ul = 701
malformed_comment = 591
malformed_comment_dropping = 592
malformed_comment_eos = 593
malformed_comment_warn = 594
malformed_doctype = 595
metadata_missing = 777
metadata_missing_redirect_autorefresh = 778
mismatched_attribute_error = 596
mismatched_attribute_warn = 597
missing_attr_value = 598
missing_attribute = 599
missing_doctype = 600
missing_endtag_before = 601
missing_endtag_for = 602
missing_endtag_optional = 603
missing_imagemap = 604
missing_quotemark = 605
missing_quotemark_open = 606
missing_semicolon = 608
missing_semicolon_ncr = 607
```

missing_starttag = 609
missing_title_element = 610
moved_style_to_head = 611
multimedia_requires_text = 683
nested_emphasis = 612
nested_quotation = 613
new_windows_require_warning_blank = 756
new_windows_require_warning_new = 755
newline_in_uri = 614
noframes_content = 615
noframes_invalid_content = 734
noframes_invalid_link = 735
noframes_invalid_no_value = 733
non_matching_endtag = 616
object_missing_alt = 671
obsolete_element = 617
option_removed = 618
option_removed_applied = 619
option_removed_unapplied = 620
potential_header_bold = 697
potential_header_italics = 698
potential_header_underline = 699
previous_location = 621
programmatic_objects_require_testing_applet = 731
programmatic_objects_require_testing_embed = 730
programmatic_objects_require_testing_object = 729
programmatic_objects_require_testing_script = 728
proprietary_attr_value = 622
proprietary_attribute = 623
proprietary_element = 624
remove_auto_redirect = 743
remove_auto_refresh = 742
remove_blink_marquee = 741
remove_flicker_animated_gif = 740
remove_flicker_applet = 739
remove_flicker_embed = 738

```
remove_flicker_object = 737
remove_flicker_script = 736
removed_html5 = 625
repeated_attribute = 626
replace_deprecated_html_applet = 757
replace_deprecated_html_basefont = 758
replace_deprecated_html_center = 759
replace_deprecated_html_dir = 760
replace_deprecated_html_font = 761
replace_deprecated_html_isindex = 762
replace_deprecated_html_menu = 763
replace_deprecated_html_s = 764
replace_deprecated_html_strike = 765
replace_deprecated_html_u = 766
replacing_element = 627
replacing_unex_element = 628
report_message_first = 545
report_message_last = 660
script_missing_noscript = 680
script_not_keyboard_accessible_on_click = 751
script_not_keyboard_accessible_on_mouse_down = 749
script_not_keyboard_accessible_on_mouse_move = 754
script_not_keyboard_accessible_on_mouse_out = 753
script_not_keyboard_accessible_on_mouse_over = 752
script_not_keyboard_accessible_on_mouse_up = 750
skipover_ascii_art = 779
space_preceding_xmldecl = 629
string_argument_bad = 631
string_content_looks = 630
string_discarding = 503
string_doctype_given = 632
string_error_count = 539
string_error_count_error = 504
string_error_count_warning = 505
string_hello_access = 506
string_html_proprietary = 507
```

```
string_missing_malformed = 633
string_muting_type = 634
string_needs_intervention = 540
string_no_errors = 541
string_no_sysid = 635
string_not_all_shown = 542
string_plain_text = 508
string_replacing = 509
string_specified = 510
string_unknown_option = 636
string_xml_declaration = 511
style_sheet_control_presentation = 695
stylesheets_require_testing_link = 721
stylesheets_require_testing_style_attr = 723
stylesheets_require_testing_style_element = 722
suspected_missing_quote = 637
table_may_require_header_abbr = 718
table_may_require_header_abbr_null = 719
table_may_require_header_abbr_spaces = 720
table_missing_caption = 717
table_missing_summary = 713
table_summary_invalid_null = 714
table_summary_invalid_placeholder = 716
table_summary_invalid_spaces = 715
tag_not_allowed_in = 638
tc_label_col = 780
tc_label_file = 781
tc_label_lang = 782
tc_label_level = 783
tc_label_opt = 784
tc_main_error_load_config = 785
tc_opt_access = 786
tc_opt_ascii = 787
tc_opt_ashtml = 788
tc_opt_asxml = 789
tc_opt_bare = 790
```

```
tc_opt_big5 = 791
tc_opt_clean = 792
tc_opt_config = 793
tc_opt_errors = 794
tc_opt_exp_cfg = 816
tc_opt_exp_def = 817
tc_opt_file = 795
tc_opt_gdoc = 796
tc_opt_help = 797
tc_opt_helpcfg = 798
tc_opt_helpenv = 799
tc_opt_helpopt = 800
tc_opt_ibm858 = 801
tc_opt_indent = 802
tc_opt_iso2022 = 803
tc_opt_language = 804
tc_opt_latin0 = 805
tc_opt_latin1 = 806
tc_opt_mac = 807
tc_opt_modify = 808
tc_opt_numeric = 809
tc_opt_omit = 810
tc_opt_output = 811
tc_opt_quiet = 812
tc_opt_raw = 813
tc_opt_shiftjis = 814
tc_opt_showcfg = 815
tc_opt_upper = 818
tc_opt_utf16 = 819
tc_opt_utf16_be = 820
tc_opt_utf16_le = 821
tc_opt_utf8 = 822
tc_opt_version = 823
tc_opt_win1252 = 824
tc_opt_wrap = 825
tc_opt_xml = 826
```

```
tc_opt_xmlcfg = 827
tc_opt_xmlerrs = 829
tc_opt_xmlhelp = 831
tc_opt_xmlopts = 830
tc_opt_xmlstrg = 828
tc_string_char_encoding = 845
tc_string_conf_header = 832
tc_string_conf_name = 833
tc_string_conf_note = 836
tc_string_conf_type = 834
tc_string_conf_value = 835
tc_string_fatal_error = 839
tc_string_file_manip = 840
tc_string_lang_must_specify = 841
tc_string_lang_not_found = 842
tc_string_misc = 846
tc_string_must_specify = 843
tc_string_opt_not_documented = 837
tc_string_out_of_memory = 838
tc_string_process_directives = 844
tc_string_unknown_option = 848
tc_string_unknown_option_b = 849
tc_string_vers_a = 850
tc_string_vers_b = 851
tc_string_xml = 847
tc_txt_help_1 = 852
tc_txt_help_2_a = 853
tc_txt_help_2_b = 854
tc_txt_help_3 = 855
tc_txt_help_3_a = 856
tc_txt_help_config = 857
tc_txt_help_config_allw = 860
tc_txt_help_config_name = 858
tc_txt_help_config_type = 859
tc_txt_help_env_1 = 861
tc_txt_help_env_1_a = 862
```



```
tc_txt_help_env_1_b = 863
tc_txt_help_env_1_c = 864
tc_txt_help_lang_1 = 865
tc_txt_help_lang_2 = 866
tc_txt_help_lang_3 = 867
text_access_advice1 = 518
text_access_advice2 = 519
text_bad_form = 520
text_bad_main = 521
text_equivalents_require Updating_applet = 725
text_equivalents_require Updating_object = 727
text_equivalents_require Updating_script = 726
text_general_info = 544
text_general_info_plea = 543
text_html_t_algorithm = 522
text_invalid_uri = 523
text_invalid_utf16 = 524
text_invalid_utf8 = 525
text_m_image_alt = 526
text_m_image_map = 527
text_m_link_alt = 528
text_m_summary = 529
text_sgml_chars = 530
text_using_body = 531
text_using_font = 532
text_using_frames = 533
text_using_layer = 534
text_using_nobr = 535
text_using_spacer = 536
text_vendor_chars = 537
text_windows_chars = 538
tidycustomblocklevel_string = 513
tidycustomempty_string = 514
tidycustominline_string = 515
tidycustomno_string = 512
tidycustompre_string = 516
```

```
tidystrings_first = 500
tidystrings_last = 868
too_many_elements = 640
too_many_elements_in = 639
trim_empty_element = 641
unescaped_ampersand = 642
unexpected_end_of_file = 644
unexpected_end_of_file_attr = 643
unexpected_endtag = 647
unexpected_endtag_err = 645
unexpected_endtag_in = 646
unexpected_equalsign = 648
unexpected_gt = 649
unexpected_quotemark = 650
unknown_element = 652
unknown_element_looks_custom = 651
unknown_entity = 653
using_br_inplace_of = 654
vendor_specific_chars = 655
white_in_uri = 656
xml_declaration_detected = 657
xml_id_syntax = 658

class pytidyhtml5.ParseOutcome(value)
    An enumeration.

    errors = 2
    ok = 0
    warnings = 1
```

2.8 Further functions

`pytidyhtml5.lib_info()`
Basic information about the loaded libtidy.so.

Returns

- "date": "yyyy/mm/dd"
- "version": "major.minor.patch"
- "platform": e.g. "Linux"

Return type `dict`

`pytidyhtml5.get_language()`

Get the language used in messages

Returns Current language used in messages, e.g. "en".

Return type `str`

`pytidyhtml5.set_language(code)`

Set the language used in messages.

Parameters `code` (`str`) – Language code, e.g. "en".

[Glossary / Index](#)

Symbols

__bool__() (pytidyhtml5.Attr method), 11
 __bool__() (pytidyhtml5.Message method), 14
 __bool__() (pytidyhtml5.MessageArg method), 15
 __bool__() (pytidyhtml5.Node method), 9
 __bool__() (pytidyhtml5.Option method), 5
 __eq__() (pytidyhtml5.Attr method), 11
 __eq__() (pytidyhtml5.Node method), 9
 __eq__() (pytidyhtml5.Option method), 5
 __iter__() (pytidyhtml5.Attr method), 11
 __iter__() (pytidyhtml5.Option method), 5
 __len__() (pytidyhtml5.Attr method), 11
 __len__() (pytidyhtml5.Option method), 5
 __ne__() (pytidyhtml5.Attr method), 11
 __ne__() (pytidyhtml5.Node method), 9
 __ne__() (pytidyhtml5.Option method), 5

A

a (pytidyhtml5.TagId attribute), 21
 abbr (pytidyhtml5.AttrId attribute), 26
 abbr (pytidyhtml5.TagId attribute), 21
 about (pytidyhtml5.AttrId attribute), 26
 accept (pytidyhtml5.AttrId attribute), 26
 accept_charset (pytidyhtml5.AttrId attribute), 26
 access (pytidyhtml5.ReportLevel attribute), 35
 accessibility_check_level (pytidyhtml5.OptionId attribute), 16
 accesskey (pytidyhtml5.AttrId attribute), 26
 acronym (pytidyhtml5.TagId attribute), 21
 action (pytidyhtml5.AttrId attribute), 26
 add_date (pytidyhtml5.AttrId attribute), 26
 added_missing_charset (pytidyhtml5.Strings attribute), 36
 address (pytidyhtml5.TagId attribute), 21
 align (pytidyhtml5.AttrId attribute), 26
 align (pytidyhtml5.TagId attribute), 21
 alink (pytidyhtml5.AttrId attribute), 26
 allowfullscreen (pytidyhtml5.AttrId attribute), 26
 alpha (pytidyhtml5.AttrSortStrategy attribute), 21
 alt (pytidyhtml5.AttrId attribute), 26
 alt_text (pytidyhtml5.OptionId attribute), 16
 anchor_as_name (pytidyhtml5.OptionId attribute), 16

anchor_duplicated (pytidyhtml5.Strings attribute), 36
 anchor_not_unique (pytidyhtml5.Strings attribute), 36
 apos_undefined (pytidyhtml5.Strings attribute), 36
 applet (pytidyhtml5.TagId attribute), 22
 applet_missing_alt (pytidyhtml5.Strings attribute), 36
 archive (pytidyhtml5.AttrId attribute), 26
 area (pytidyhtml5.TagId attribute), 22
 area_missing_alt (pytidyhtml5.Strings attribute), 36
 aria_activedescendant (pytidyhtml5.AttrId attribute), 26
 aria_atomic (pytidyhtml5.AttrId attribute), 26
 aria_autocomplete (pytidyhtml5.AttrId attribute), 26
 aria_busy (pytidyhtml5.AttrId attribute), 26
 aria_checked (pytidyhtml5.AttrId attribute), 26
 aria_controls (pytidyhtml5.AttrId attribute), 26
 aria_describedby (pytidyhtml5.AttrId attribute), 26
 aria_disabled (pytidyhtml5.AttrId attribute), 26
 aria_dropeffect (pytidyhtml5.AttrId attribute), 26
 aria_expanded (pytidyhtml5.AttrId attribute), 26
 aria_flowto (pytidyhtml5.AttrId attribute), 26
 aria_grabbed (pytidyhtml5.AttrId attribute), 26
 aria_haspopup (pytidyhtml5.AttrId attribute), 26
 aria_hidden (pytidyhtml5.AttrId attribute), 26
 aria_invalid (pytidyhtml5.AttrId attribute), 26
 aria_label (pytidyhtml5.AttrId attribute), 26
 aria_labelledby (pytidyhtml5.AttrId attribute), 26
 aria_level (pytidyhtml5.AttrId attribute), 26
 aria_live (pytidyhtml5.AttrId attribute), 27
 aria_multiline (pytidyhtml5.AttrId attribute), 27
 aria_multiselectable (pytidyhtml5.AttrId attribute), 27
 aria_orientation (pytidyhtml5.AttrId attribute), 27
 aria_owns (pytidyhtml5.AttrId attribute), 27
 aria_posinset (pytidyhtml5.AttrId attribute), 27
 aria_pressed (pytidyhtml5.AttrId attribute), 27
 aria_readonly (pytidyhtml5.AttrId attribute), 27
 aria_relevant (pytidyhtml5.AttrId attribute), 27

`aria_required` (`pytidyhtml5.AttrId` attribute), 27
`aria_selected` (`pytidyhtml5.AttrId` attribute), 27
`aria_setsize` (`pytidyhtml5.AttrId` attribute), 27
`aria_sort` (`pytidyhtml5.AttrId` attribute), 27
`aria_valuemax` (`pytidyhtml5.AttrId` attribute), 27
`aria_valuemin` (`pytidyhtml5.AttrId` attribute), 27
`aria_valuenow` (`pytidyhtml5.AttrId` attribute), 27
`aria_valuetext` (`pytidyhtml5.AttrId` attribute), 27
`article` (`pytidyhtml5.TagId` attribute), 22
`as_` (`pytidyhtml5.AttrId` attribute), 27
`ascii` (`pytidyhtml5.EncodingOptions` attribute), 20
`ascii_chars` (`pytidyhtml5.OptionId` attribute), 16
`ascii_requires_description` (`pytidyhtml5.Strings` attribute), 36
`aside` (`pytidyhtml5.TagId` attribute), 22
`asp` (`pytidyhtml5.NodeType` attribute), 21
`associate_labels_explicitly` (`pytidyhtml5.Strings` attribute), 36
`associate_labels_explicitly_for` (`pytidyhtml5.Strings` attribute), 36
`associate_labels_explicitly_id` (`pytidyhtml5.Strings` attribute), 36
`async_` (`pytidyhtml5.AttrId` attribute), 27
`attr` (`pytidyhtml5.Node` attribute), 8
`Attr()` (in module `pytidyhtml5`), 9
`attr_first` (`pytidyhtml5.Node` attribute), 6
`attr_value_not_lcase` (`pytidyhtml5.Strings` attribute), 36
`attribute_is_not_allowed` (`pytidyhtml5.Strings` attribute), 36
`attribute_value_replaced` (`pytidyhtml5.Strings` attribute), 36
`AttrId` (class in `pytidyhtml5`), 26
`AttrSortStrategy` (class in `pytidyhtml5`), 21
`audio` (`pytidyhtml5.TagId` attribute), 22
`audio_missing_text_aiff` (`pytidyhtml5.Strings` attribute), 36
`audio_missing_text_au` (`pytidyhtml5.Strings` attribute), 36
`audio_missing_text_ra` (`pytidyhtml5.Strings` attribute), 36
`audio_missing_text_rm` (`pytidyhtml5.Strings` attribute), 36
`audio_missing_text_snd` (`pytidyhtml5.Strings` attribute), 36
`audio_missing_text_wav` (`pytidyhtml5.Strings` attribute), 36
`auto` (`pytidyhtml5.DoctypeModes` attribute), 20
`auto` (`pytidyhtml5.TriState` attribute), 20
`autocomplete` (`pytidyhtml5.AttrId` attribute), 27
`autofocus` (`pytidyhtml5.AttrId` attribute), 27
`autoplay` (`pytidyhtml5.AttrId` attribute), 27
`axis` (`pytidyhtml5.AttrId` attribute), 27

B

`b` (`pytidyhtml5.TagId` attribute), 22
`background` (`pytidyhtml5.AttrId` attribute), 27
`backslash_in_uri` (`pytidyhtml5.Strings` attribute), 36
`bad_attribute_value` (`pytidyhtml5.Strings` attribute), 36
`bad_attribute_value_replaced` (`pytidyhtml5.Strings` attribute), 36
`bad_cdata_content` (`pytidyhtml5.Strings` attribute), 36
`bad_document` (`pytidyhtml5.ReportLevel` attribute), 35
`bad_summary_html5` (`pytidyhtml5.Strings` attribute), 36
`bad_surrogate_lead` (`pytidyhtml5.Strings` attribute), 37
`bad_surrogate_pair` (`pytidyhtml5.Strings` attribute), 37
`bad_surrogate_tail` (`pytidyhtml5.Strings` attribute), 37
`base` (`pytidyhtml5.TagId` attribute), 22
`basefont` (`pytidyhtml5.TagId` attribute), 22
`baseprofile` (`pytidyhtml5.AttrId` attribute), 27
`bdi` (`pytidyhtml5.TagId` attribute), 22
`bdo` (`pytidyhtml5.TagId` attribute), 22
`bgcolor` (`pytidyhtml5.AttrId` attribute), 27
`bgproperties` (`pytidyhtml5.AttrId` attribute), 27
`bgsound` (`pytidyhtml5.TagId` attribute), 22
`big` (`pytidyhtml5.TagId` attribute), 22
`big5` (`pytidyhtml5.EncodingOptions` attribute), 20
`blank_title_element` (`pytidyhtml5.Strings` attribute), 37
`blink` (`pytidyhtml5.TagId` attribute), 22
`block_tags` (`pytidyhtml5.OptionId` attribute), 16
`blocklevel` (`pytidyhtml5.UseCustomTagsState` attribute), 20
`blockquote` (`pytidyhtml5.TagId` attribute), 22
`body` (`pytidyhtml5.TagId` attribute), 22
`body_only` (`pytidyhtml5.OptionId` attribute), 16
`boolean` (`pytidyhtml5.OptionType` attribute), 19
`border` (`pytidyhtml5.AttrId` attribute), 27
`bordercolor` (`pytidyhtml5.AttrId` attribute), 27
`bottommargin` (`pytidyhtml5.AttrId` attribute), 27
`br` (`pytidyhtml5.TagId` attribute), 22
`break_before_br` (`pytidyhtml5.OptionId` attribute), 16
`button` (`pytidyhtml5.TagId` attribute), 22

C

`cant_be_nested` (`pytidyhtml5.Strings` attribute), 37
`canvas` (`pytidyhtml5.TagId` attribute), 22
`caption` (`pytidyhtml5.TagId` attribute), 22
`category` (`pytidyhtml5.Option` attribute), 4
`cdata` (`pytidyhtml5.NodeType` attribute), 21

cellpadding (*pytidyhtml5.AttrId attribute*), 27
 cellspacing (*pytidyhtml5.AttrId attribute*), 27
 center (*pytidyhtml5.TagId attribute*), 22
 challenge (*pytidyhtml5.AttrId attribute*), 27
 char (*pytidyhtml5.AttrId attribute*), 27
 char_encoding (*pytidyhtml5.OptionId attribute*), 16
 charoff (*pytidyhtml5.AttrId attribute*), 27
 charset (*pytidyhtml5.AttrId attribute*), 27
 checked (*pytidyhtml5.AttrId attribute*), 28
 child (*pytidyhtml5.Node attribute*), 6
 cite (*pytidyhtml5.AttrId attribute*), 28
 cite (*pytidyhtml5.TagId attribute*), 22
 class_ (*pytidyhtml5.AttrId attribute*), 28
 classid (*pytidyhtml5.AttrId attribute*), 28
 clear (*pytidyhtml5.AttrId attribute*), 28
 code (*pytidyhtml5.AttrId attribute*), 28
 code (*pytidyhtml5.Message attribute*), 13
 code (*pytidyhtml5.TagId attribute*), 22
 codebase (*pytidyhtml5.AttrId attribute*), 28
 codetype (*pytidyhtml5.AttrId attribute*), 28
 coerce_end_tags (*pytidyhtml5.OptionId attribute*), 16
 coerce_to_endtag (*pytidyhtml5.Strings attribute*), 37
 col (*pytidyhtml5.TagId attribute*), 22
 colgroup (*pytidyhtml5.TagId attribute*), 22
 color (*pytidyhtml5.AttrId attribute*), 28
 color_contrast_active_link (*pytidyhtml5.Strings attribute*), 37
 color_contrast_link (*pytidyhtml5.Strings attribute*), 37
 color_contrast_text (*pytidyhtml5.Strings attribute*), 37
 color_contrast_visited_link (*pytidyhtml5.Strings attribute*), 37
 colorinterpolation (*pytidyhtml5.AttrId attribute*), 28
 colorrendering (*pytidyhtml5.AttrId attribute*), 28
 cols (*pytidyhtml5.AttrId attribute*), 28
 colspan (*pytidyhtml5.AttrId attribute*), 28
 command (*pytidyhtml5.TagId attribute*), 22
 comment (*pytidyhtml5.NodeType attribute*), 21
 comment (*pytidyhtml5.TagId attribute*), 22
 compact (*pytidyhtml5.AttrId attribute*), 28
 config (*pytidyhtml5.ReportLevel attribute*), 35
 ConfigCategory (*class in pytidyhtml5*), 19
 content (*pytidyhtml5.AttrId attribute*), 28
 content_after_body (*pytidyhtml5.Strings attribute*), 37
 contenteditable (*pytidyhtml5.AttrId attribute*), 28
 contentscripttype (*pytidyhtml5.AttrId attribute*), 28
 contentstyletype (*pytidyhtml5.AttrId attribute*), 28
 contextmenu (*pytidyhtml5.AttrId attribute*), 28

controls (*pytidyhtml5.AttrId attribute*), 28
 coords (*pytidyhtml5.AttrId attribute*), 28
 cr (*pytidyhtml5.LineEnding attribute*), 20
 crlf (*pytidyhtml5.LineEnding attribute*), 20
 crossorigin (*pytidyhtml5.AttrId attribute*), 28
 css_prefix (*pytidyhtml5.OptionId attribute*), 16
 custom_tag_detected (*pytidyhtml5.Strings attribute*), 37
 custom_tags (*pytidyhtml5.OptionId attribute*), 16

D

data (*pytidyhtml5.AttrId attribute*), 28
 data (*pytidyhtml5.TagId attribute*), 22
 data_table_missing_headers (*pytidyhtml5.Strings attribute*), 37
 data_table_missing_headers_column (*pytidyhtml5.Strings attribute*), 37
 data_table_missing_headers_row (*pytidyhtml5.Strings attribute*), 37
 data_table_require_markup_column_headers (*pytidyhtml5.Strings attribute*), 37
 data_table_require_markup_row_headers (*pytidyhtml5.Strings attribute*), 37
 datafld (*pytidyhtml5.AttrId attribute*), 28
 dataformatas (*pytidyhtml5.AttrId attribute*), 28
 datalist (*pytidyhtml5.TagId attribute*), 22
 datapagesize (*pytidyhtml5.AttrId attribute*), 28
 datasrc (*pytidyhtml5.AttrId attribute*), 28
 datatype (*pytidyhtml5.AttrId attribute*), 28
 datetime (*pytidyhtml5.AttrId attribute*), 28
 dd (*pytidyhtml5.TagId attribute*), 22
 declare (*pytidyhtml5.AttrId attribute*), 28
 decorate_inferred_ul (*pytidyhtml5.OptionId attribute*), 16
 default (*pytidyhtml5.AttrId attribute*), 28
 default (*pytidyhtml5.Message attribute*), 12
 default (*pytidyhtml5.Option attribute*), 4
 defer (*pytidyhtml5.AttrId attribute*), 28
 del_ (*pytidyhtml5.TagId attribute*), 22
 details (*pytidyhtml5.TagId attribute*), 22
 dfn (*pytidyhtml5.TagId attribute*), 22
 diagnostics (*pytidyhtml5.ConfigCategory attribute*), 19
 dialog (*pytidyhtml5.TagId attribute*), 22
 dialogue_doc (*pytidyhtml5.ReportLevel attribute*), 35
 dialogue_info (*pytidyhtml5.ReportLevel attribute*), 35
 dialogue_summary (*pytidyhtml5.ReportLevel attribute*), 35
 dir (*pytidyhtml5.AttrId attribute*), 28
 dir (*pytidyhtml5.TagId attribute*), 22
 dirname (*pytidyhtml5.AttrId attribute*), 28
 disabled (*pytidyhtml5.AttrId attribute*), 28
 discard () (*pytidyhtml5.Node method*), 8

discarding_unexpected (*pytidyhtml5.Strings attribute*), 37

display (*pytidyhtml5.AttrId attribute*), 28

display (*pytidyhtml5.ConfigCategory attribute*), 19

div (*pytidyhtml5.TagId attribute*), 22

dl (*pytidyhtml5.TagId attribute*), 22

doc_type (*pytidyhtml5.NodeType attribute*), 21

doctype (*pytidyhtml5.OptionId attribute*), 16

doctype_after_tags (*pytidyhtml5.Strings attribute*), 37

doctype_missing (*pytidyhtml5.Strings attribute*), 37

doctype_mode (*pytidyhtml5.OptionId attribute*), 16

DoctypeModes (*class in pytidyhtml5*), 20

document (*pytidyhtml5.Message attribute*), 12

document_io (*pytidyhtml5.ConfigCategory attribute*), 19

double (*pytidyhtml5.FormatParameterType attribute*), 36

download (*pytidyhtml5.AttrId attribute*), 29

draggable (*pytidyhtml5.AttrId attribute*), 29

drop_empty_elems (*pytidyhtml5.OptionId attribute*), 16

drop_empty_paras (*pytidyhtml5.OptionId attribute*), 16

drop_prop_attrs (*pytidyhtml5.OptionId attribute*), 17

dropzone (*pytidyhtml5.AttrId attribute*), 29

dt (*pytidyhtml5.TagId attribute*), 23

DupAttrModes (*class in pytidyhtml5*), 21

duplicate_attrs (*pytidyhtml5.OptionId attribute*), 17

duplicate_frameset (*pytidyhtml5.Strings attribute*), 37

E

element_not_empty (*pytidyhtml5.Strings attribute*), 37

element_vers_mismatch_error (*pytidyhtml5.Strings attribute*), 37

element_vers_mismatch_warn (*pytidyhtml5.Strings attribute*), 37

em (*pytidyhtml5.TagId attribute*), 23

emacs (*pytidyhtml5.OptionId attribute*), 17

emacs_file (*pytidyhtml5.OptionId attribute*), 17

embed (*pytidyhtml5.TagId attribute*), 23

empty (*pytidyhtml5.UseCustomTagsState attribute*), 20

empty_tags (*pytidyhtml5.OptionId attribute*), 17

enclose_block_text (*pytidyhtml5.OptionId attribute*), 17

enclose_body_text (*pytidyhtml5.OptionId attribute*), 17

encoding (*pytidyhtml5.AttrId attribute*), 29

encoding (*pytidyhtml5.ConfigCategory attribute*), 19

encoding_mismatch (*pytidyhtml5.Strings attribute*), 37

EncodingOptions (*class in pytidyhtml5*), 20

entype (*pytidyhtml5.AttrId attribute*), 29

end (*pytidyhtml5.NodeType attribute*), 21

ensure_programmatic_objects_accessible_applet (*pytidyhtml5.Strings attribute*), 37

ensure_programmatic_objects_accessible_embed (*pytidyhtml5.Strings attribute*), 37

ensure_programmatic_objects_accessible_object (*pytidyhtml5.Strings attribute*), 37

ensure_programmatic_objects_accessible_script (*pytidyhtml5.Strings attribute*), 37

err_file (*pytidyhtml5.OptionId attribute*), 17

error (*pytidyhtml5.ReportLevel attribute*), 36

errors (*pytidyhtml5.ParseOutcome attribute*), 46

escape_cdata (*pytidyhtml5.OptionId attribute*), 17

escape_scripts (*pytidyhtml5.OptionId attribute*), 17

escaped_illegal_uri (*pytidyhtml5.Strings attribute*), 37

event (*pytidyhtml5.AttrId attribute*), 29

F

face (*pytidyhtml5.AttrId attribute*), 29

fatal (*pytidyhtml5.ReportLevel attribute*), 36

fieldset (*pytidyhtml5.TagId attribute*), 23

figcaption (*pytidyhtml5.TagId attribute*), 23

figure (*pytidyhtml5.TagId attribute*), 23

file_cant_open (*pytidyhtml5.Strings attribute*), 37

file_cant_open_cfg (*pytidyhtml5.Strings attribute*), 37

file_io (*pytidyhtml5.ConfigCategory attribute*), 19

file_not_file (*pytidyhtml5.Strings attribute*), 37

fill (*pytidyhtml5.AttrId attribute*), 29

fillopacity (*pytidyhtml5.AttrId attribute*), 29

fillrule (*pytidyhtml5.AttrId attribute*), 29

fix_backslash (*pytidyhtml5.OptionId attribute*), 17

fix_comments (*pytidyhtml5.OptionId attribute*), 17

fix_uri (*pytidyhtml5.OptionId attribute*), 17

fixed_backslash (*pytidyhtml5.Strings attribute*), 37

fn_line_column_string (*pytidyhtml5.Strings attribute*), 37

font (*pytidyhtml5.TagId attribute*), 23

footer (*pytidyhtml5.TagId attribute*), 23

footnote_trim_empty_element (*pytidyhtml5.Strings attribute*), 37

for_ (*pytidyhtml5.AttrId attribute*), 29

force_output (*pytidyhtml5.OptionId attribute*), 17

form (*pytidyhtml5.AttrId attribute*), 29

form (*pytidyhtml5.TagId attribute*), 23

formaction (*pytidyhtml5.AttrId attribute*), 29

format (*pytidyhtml5.Message attribute*), 12

format (*pytidyhtml5.MessageArg attribute*), 15

format_default (*pytidyhtml5.Message attribute*), 12

FormatParameterType (class in *pytidyhtml5*), 36
 formenctype (*pytidyhtml5.AttrId* attribute), 29
 formmethod (*pytidyhtml5.AttrId* attribute), 29
 formnovalidate (*pytidyhtml5.AttrId* attribute), 29
 formtarget (*pytidyhtml5.AttrId* attribute), 29
 found_style_in_body (*pytidyhtml5.Strings* attribute), 38
 frame (*pytidyhtml5.AttrId* attribute), 29
 frame (*pytidyhtml5.TagId* attribute), 23
 frame_missing_longdesc (*pytidyhtml5.Strings* attribute), 38
 frame_missing_noframes (*pytidyhtml5.Strings* attribute), 38
 frame_missing_title (*pytidyhtml5.Strings* attribute), 38
 frame_src_invalid (*pytidyhtml5.Strings* attribute), 38
 frame_title_invalid_null (*pytidyhtml5.Strings* attribute), 38
 frame_title_invalid_spaces (*pytidyhtml5.Strings* attribute), 38
 frameborder (*pytidyhtml5.AttrId* attribute), 29
 frameset (*pytidyhtml5.TagId* attribute), 23
 framespacing (*pytidyhtml5.AttrId* attribute), 29

G

g_doc_clean (*pytidyhtml5.OptionId* attribute), 17
 get_language() (in module *pytidyhtml5*), 46
 get_next() (*pytidyhtml5.Attr* method), 10
 gridx (*pytidyhtml5.AttrId* attribute), 29
 gridy (*pytidyhtml5.AttrId* attribute), 29

H

h1 (*pytidyhtml5.TagId* attribute), 23
 h2 (*pytidyhtml5.TagId* attribute), 23
 h3 (*pytidyhtml5.TagId* attribute), 23
 h4 (*pytidyhtml5.TagId* attribute), 23
 h5 (*pytidyhtml5.TagId* attribute), 23
 h6 (*pytidyhtml5.TagId* attribute), 23
 head (*pytidyhtml5.TagId* attribute), 23
 header (*pytidyhtml5.TagId* attribute), 23
 header_used_format_text (*pytidyhtml5.Strings* attribute), 38
 headers (*pytidyhtml5.AttrId* attribute), 29
 headers_improperly_nested (*pytidyhtml5.Strings* attribute), 38
 height (*pytidyhtml5.AttrId* attribute), 29
 hgroup (*pytidyhtml5.TagId* attribute), 23
 hidden (*pytidyhtml5.AttrId* attribute), 29
 hide_comments (*pytidyhtml5.OptionId* attribute), 17
 high (*pytidyhtml5.AttrId* attribute), 29
 hr (*pytidyhtml5.TagId* attribute), 23
 href (*pytidyhtml5.AttrId* attribute), 29
 hreflang (*pytidyhtml5.AttrId* attribute), 29

hspace (*pytidyhtml5.AttrId* attribute), 29
 html (*pytidyhtml5.TagId* attribute), 23
 html5 (*pytidyhtml5.DoctypeModes* attribute), 20
 html_out (*pytidyhtml5.OptionId* attribute), 17
 http_equiv (*pytidyhtml5.AttrId* attribute), 29

I

i (*pytidyhtml5.TagId* attribute), 23
 ibm858 (*pytidyhtml5.EncodingOptions* attribute), 20
 icon (*pytidyhtml5.AttrId* attribute), 29
 id (*pytidyhtml5.Attr* attribute), 10
 id (*pytidyhtml5.AttrId* attribute), 29
 id (*pytidyhtml5.Node* attribute), 7
 id (*pytidyhtml5.Option* attribute), 3
 id_name_mismatch (*pytidyhtml5.Strings* attribute), 38
 iframe (*pytidyhtml5.TagId* attribute), 23
 ilayer (*pytidyhtml5.TagId* attribute), 23
 illegal_nesting (*pytidyhtml5.Strings* attribute), 38
 illegal_uri_codepoint (*pytidyhtml5.Strings* attribute), 38
 illegal_uri_reference (*pytidyhtml5.Strings* attribute), 38
 image_map_server_side_requires_conversion (*pytidyhtml5.Strings* attribute), 38
 img (*pytidyhtml5.TagId* attribute), 23
 img_alt_suspicious_file_size (*pytidyhtml5.Strings* attribute), 38
 img_alt_suspicious_filename (*pytidyhtml5.Strings* attribute), 38
 img_alt_suspicious_placeholder (*pytidyhtml5.Strings* attribute), 38
 img_alt_suspicious_too_long (*pytidyhtml5.Strings* attribute), 38
 img_button_missing_alt (*pytidyhtml5.Strings* attribute), 38
 img_map_client_missing_text_links (*pytidyhtml5.Strings* attribute), 38
 img_map_server_requires_text_links (*pytidyhtml5.Strings* attribute), 38
 img_missing_alt (*pytidyhtml5.Strings* attribute), 38
 img_missing_dlink (*pytidyhtml5.Strings* attribute), 38
 img_missing_longdesc (*pytidyhtml5.Strings* attribute), 38
 img_missing_longdesc_dlink (*pytidyhtml5.Strings* attribute), 38
 in_char_encoding (*pytidyhtml5.OptionId* attribute), 17
 indent_attributes (*pytidyhtml5.OptionId* attribute), 17
 indent_cdata (*pytidyhtml5.OptionId* attribute), 17
 indent_content (*pytidyhtml5.OptionId* attribute), 17
 indent_spaces (*pytidyhtml5.OptionId* attribute), 17

`info` (`pytidyhtml5.ReportLevel` attribute), 36
`information_not_conveyed_applet` (`pytidyhtml5.Strings` attribute), 38
`information_not_conveyed_image` (`pytidyhtml5.Strings` attribute), 38
`information_not_conveyed_input` (`pytidyhtml5.Strings` attribute), 38
`information_not_conveyed_object` (`pytidyhtml5.Strings` attribute), 38
`information_not_conveyed_script` (`pytidyhtml5.Strings` attribute), 38
`inline` (`pytidyhtml5.UseCustomTagsState` attribute), 20
`inline_tags` (`pytidyhtml5.OptionId` attribute), 17
`inlist` (`pytidyhtml5.AttrId` attribute), 29
`input` (`pytidyhtml5.TagId` attribute), 23
`ins` (`pytidyhtml5.TagId` attribute), 23
`inserting_auto_attribute` (`pytidyhtml5.Strings` attribute), 38
`inserting_tag` (`pytidyhtml5.Strings` attribute), 38
`int` (`pytidyhtml5.FormatParameterType` attribute), 36
`integer` (`pytidyhtml5.OptionType` attribute), 19
`integrity` (`pytidyhtml5.AttrId` attribute), 29
`internal_category` (`pytidyhtml5.ConfigCategory` attribute), 19
`invalid_attribute` (`pytidyhtml5.Strings` attribute), 38
`invalid_ncr` (`pytidyhtml5.Strings` attribute), 38
`invalid_sgml_chars` (`pytidyhtml5.Strings` attribute), 38
`invalid_utf16` (`pytidyhtml5.Strings` attribute), 38
`invalid_utf8` (`pytidyhtml5.Strings` attribute), 39
`invalid_xml_id` (`pytidyhtml5.Strings` attribute), 39
`is_` (`pytidyhtml5.AttrId` attribute), 29
`is_event` (`pytidyhtml5.Attr` attribute), 10
`is_list` (`pytidyhtml5.Option` attribute), 3
`is_muted` (`pytidyhtml5.Message` attribute), 13
`is_readonly` (`pytidyhtml5.Option` attribute), 4
`is_text` (`pytidyhtml5.Node` attribute), 7
`isindex` (`pytidyhtml5.TagId` attribute), 23
`ismap` (`pytidyhtml5.AttrId` attribute), 29
`iso2022` (`pytidyhtml5.EncodingOptions` attribute), 20
`itemid` (`pytidyhtml5.AttrId` attribute), 30
`itemprop` (`pytidyhtml5.AttrId` attribute), 30
`itemref` (`pytidyhtml5.AttrId` attribute), 30
`itemscope` (`pytidyhtml5.AttrId` attribute), 30
`itemtype` (`pytidyhtml5.AttrId` attribute), 30
`iter_args` () (`pytidyhtml5.Message` method), 14
`iter_attrs` () (`pytidyhtml5.Node` method), 8
`iter_children` () (`pytidyhtml5.Node` method), 8
`iter_linked_options` () (`pytidyhtml5.Option` method), 5
`iter_picklist` () (`pytidyhtml5.Option` method), 5
`iter_values` () (`pytidyhtml5.Message` method), 14

J

`join_classes` (`pytidyhtml5.OptionId` attribute), 17
`join_styles` (`pytidyhtml5.OptionId` attribute), 17
`joining_attribute` (`pytidyhtml5.Strings` attribute), 39
`jste` (`pytidyhtml5.NodeType` attribute), 21

K

`kbd` (`pytidyhtml5.TagId` attribute), 23
`keep_file_times` (`pytidyhtml5.OptionId` attribute), 17
`keep_first` (`pytidyhtml5.DupAttrModes` attribute), 21
`keep_last` (`pytidyhtml5.DupAttrModes` attribute), 21
`keep_tabs` (`pytidyhtml5.OptionId` attribute), 17
`key` (`pytidyhtml5.Message` attribute), 13
`keygen` (`pytidyhtml5.TagId` attribute), 23
`keytype` (`pytidyhtml5.AttrId` attribute), 30
`kind` (`pytidyhtml5.AttrId` attribute), 30

L

`label` (`pytidyhtml5.AttrId` attribute), 30
`label` (`pytidyhtml5.TagId` attribute), 23
`lang` (`pytidyhtml5.AttrId` attribute), 30
`language` (`pytidyhtml5.AttrId` attribute), 30
`language_invalid` (`pytidyhtml5.Strings` attribute), 39
`language_not_identified` (`pytidyhtml5.Strings` attribute), 39
`last_modified` (`pytidyhtml5.AttrId` attribute), 30
`last_visit` (`pytidyhtml5.AttrId` attribute), 30
`latin0` (`pytidyhtml5.EncodingOptions` attribute), 20
`latin1` (`pytidyhtml5.EncodingOptions` attribute), 20
`layer` (`pytidyhtml5.TagId` attribute), 23
`layout_table_invalid_markup` (`pytidyhtml5.Strings` attribute), 39
`layout_tables_linearize_properly` (`pytidyhtml5.Strings` attribute), 39
`leftmargin` (`pytidyhtml5.AttrId` attribute), 30
`legend` (`pytidyhtml5.TagId` attribute), 23
`level` (`pytidyhtml5.Message` attribute), 13
`lf` (`pytidyhtml5.LineEnding` attribute), 20
`li` (`pytidyhtml5.TagId` attribute), 23
`lib_info` () (in module `pytidyhtml5`), 46
`line_column_string` (`pytidyhtml5.Strings` attribute), 39
`LineEnding` (class in `pytidyhtml5`), 20
`link` (`pytidyhtml5.AttrId` attribute), 30
`link` (`pytidyhtml5.TagId` attribute), 23
`link_text_missing` (`pytidyhtml5.Strings` attribute), 39
`link_text_not_meaningful` (`pytidyhtml5.Strings` attribute), 39
`link_text_not_meaningful_click_here` (`pytidyhtml5.Strings` attribute), 39

[link_text_too_long](#) ([pytidyhtml5.Strings attribute](#)), 39
[list](#) ([pytidyhtml5.AttrId attribute](#)), 30
[list_usage_invalid_li](#) ([pytidyhtml5.Strings attribute](#)), 39
[list_usage_invalid_ol](#) ([pytidyhtml5.Strings attribute](#)), 39
[list_usage_invalid_ul](#) ([pytidyhtml5.Strings attribute](#)), 39
[listing](#) ([pytidyhtml5.TagId attribute](#)), 24
[literal_attrbs](#) ([pytidyhtml5.OptionId attribute](#)), 17
[loading](#) ([pytidyhtml5.AttrId attribute](#)), 30
[logical_emphasis](#) ([pytidyhtml5.OptionId attribute](#)), 17
[longdesc](#) ([pytidyhtml5.AttrId attribute](#)), 30
[loop](#) ([pytidyhtml5.AttrId attribute](#)), 30
[loose](#) ([pytidyhtml5.DoctypeModes attribute](#)), 20
[low](#) ([pytidyhtml5.AttrId attribute](#)), 30
[lower_literals](#) ([pytidyhtml5.OptionId attribute](#)), 17
[lowsrc](#) ([pytidyhtml5.AttrId attribute](#)), 30

M

[mac](#) ([pytidyhtml5.EncodingOptions attribute](#)), 20
[main](#) ([pytidyhtml5.TagId attribute](#)), 24
[make_bare](#) ([pytidyhtml5.OptionId attribute](#)), 17
[make_clean](#) ([pytidyhtml5.OptionId attribute](#)), 17
[malformed_comment](#) ([pytidyhtml5.Strings attribute](#)), 39
[malformed_comment_dropping](#) ([pytidyhtml5.Strings attribute](#)), 39
[malformed_comment_eos](#) ([pytidyhtml5.Strings attribute](#)), 39
[malformed_comment_warn](#) ([pytidyhtml5.Strings attribute](#)), 39
[malformed_doctype](#) ([pytidyhtml5.Strings attribute](#)), 39
[manifest](#) ([pytidyhtml5.AttrId attribute](#)), 30
[map](#) ([pytidyhtml5.TagId attribute](#)), 24
[marginheight](#) ([pytidyhtml5.AttrId attribute](#)), 30
[marginwidth](#) ([pytidyhtml5.AttrId attribute](#)), 30
[mark](#) ([pytidyhtml5.OptionId attribute](#)), 17
[mark](#) ([pytidyhtml5.TagId attribute](#)), 24
[markup_cleanup](#) ([pytidyhtml5.ConfigCategory attribute](#)), 19
[markup_entities](#) ([pytidyhtml5.ConfigCategory attribute](#)), 19
[markup_repair](#) ([pytidyhtml5.ConfigCategory attribute](#)), 19
[markup_teach](#) ([pytidyhtml5.ConfigCategory attribute](#)), 19
[markup_x_form](#) ([pytidyhtml5.ConfigCategory attribute](#)), 19
[marquee](#) ([pytidyhtml5.TagId attribute](#)), 24
[mathml](#) ([pytidyhtml5.TagId attribute](#)), 24
[max](#) ([pytidyhtml5.AttrId attribute](#)), 30
[maxlength](#) ([pytidyhtml5.AttrId attribute](#)), 30
[media](#) ([pytidyhtml5.AttrId attribute](#)), 30
[mediagroup](#) ([pytidyhtml5.AttrId attribute](#)), 30
[menu](#) ([pytidyhtml5.TagId attribute](#)), 24
[menuitem](#) ([pytidyhtml5.TagId attribute](#)), 24
[merge_divs](#) ([pytidyhtml5.OptionId attribute](#)), 17
[merge_emphasis](#) ([pytidyhtml5.OptionId attribute](#)), 17
[merge_spans](#) ([pytidyhtml5.OptionId attribute](#)), 17
[message](#) ([pytidyhtml5.Message attribute](#)), 12
[Message\(\)](#) (in module [pytidyhtml5](#)), 11
[MessageArg\(\)](#) (in module [pytidyhtml5](#)), 15
[meta](#) ([pytidyhtml5.TagId attribute](#)), 24
[meta_charset](#) ([pytidyhtml5.OptionId attribute](#)), 18
[metadata_missing](#) ([pytidyhtml5.Strings attribute](#)), 39
[metadata_missing_redirect_autorefresh](#) ([pytidyhtml5.Strings attribute](#)), 39
[meter](#) ([pytidyhtml5.TagId attribute](#)), 24
[method](#) ([pytidyhtml5.AttrId attribute](#)), 30
[methods](#) ([pytidyhtml5.AttrId attribute](#)), 30
[min](#) ([pytidyhtml5.AttrId attribute](#)), 30
[mismatched_attribute_error](#) ([pytidyhtml5.Strings attribute](#)), 39
[mismatched_attribute_warn](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_attr_value](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_attribute](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_doctype](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_endtag_before](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_endtag_for](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_endtag_optional](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_imagemap](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_quotemark](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_quotemark_open](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_semicolon](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_semicolon_ncr](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_starttag](#) ([pytidyhtml5.Strings attribute](#)), 39
[missing_title_element](#) ([pytidyhtml5.Strings attribute](#)), 40
[moved_style_to_head](#) ([pytidyhtml5.Strings attribute](#)), 40

`multicol` (*pytidyhtml5.TagId attribute*), 24
`multimedia_requires_text` (*pytidyhtml5.Strings attribute*), 40
`multiple` (*pytidyhtml5.AttrId attribute*), 30
`mute_reports` (*pytidyhtml5.OptionId attribute*), 18
`mute_show` (*pytidyhtml5.OptionId attribute*), 18
`muted` (*pytidyhtml5.AttrId attribute*), 30

N

`n` (*pytidyhtml5.AttrId attribute*), 30
`name` (*pytidyhtml5.Attr attribute*), 10
`name` (*pytidyhtml5.AttrId attribute*), 30
`name` (*pytidyhtml5.Node attribute*), 7
`name` (*pytidyhtml5.Option attribute*), 3
`nav` (*pytidyhtml5.TagId attribute*), 24
`ncr` (*pytidyhtml5.OptionId attribute*), 18
`nested_emphasis` (*pytidyhtml5.Strings attribute*), 40
`nested_quotation` (*pytidyhtml5.Strings attribute*), 40
`new_windows_require_warning_blank` (*pytidyhtml5.Strings attribute*), 40
`new_windows_require_warning_new` (*pytidyhtml5.Strings attribute*), 40
`newline` (*pytidyhtml5.OptionId attribute*), 18
`newline_in_uri` (*pytidyhtml5.Strings attribute*), 40
`next` (*pytidyhtml5.Node attribute*), 6
`nextid` (*pytidyhtml5.TagId attribute*), 24
`no` (*pytidyhtml5.TriState attribute*), 20
`no` (*pytidyhtml5.Uppercase attribute*), 21
`no` (*pytidyhtml5.UseCustomTagsState attribute*), 20
`nobr` (*pytidyhtml5.TagId attribute*), 24
`node` (*pytidyhtml5.Attr attribute*), 10
`Node()` (in module *pytidyhtml5*), 6
`NodeType` (class in *pytidyhtml5*), 21
`noembed` (*pytidyhtml5.TagId attribute*), 24
`noframes` (*pytidyhtml5.TagId attribute*), 24
`noframes_content` (*pytidyhtml5.Strings attribute*), 40
`noframes_invalid_content` (*pytidyhtml5.Strings attribute*), 40
`noframes_invalid_link` (*pytidyhtml5.Strings attribute*), 40
`noframes_invalid_no_value` (*pytidyhtml5.Strings attribute*), 40
`noreferrer` (*pytidyhtml5.AttrId attribute*), 30
`nolayer` (*pytidyhtml5.TagId attribute*), 24
`non_matching_endtag` (*pytidyhtml5.Strings attribute*), 40
`none` (*pytidyhtml5.AttrSortStrategy attribute*), 21
`noresize` (*pytidyhtml5.AttrId attribute*), 30
`nosave` (*pytidyhtml5.TagId attribute*), 24
`noscript` (*pytidyhtml5.TagId attribute*), 24
`noshade` (*pytidyhtml5.AttrId attribute*), 31
`novalidate` (*pytidyhtml5.AttrId attribute*), 31

`nowrap` (*pytidyhtml5.AttrId attribute*), 31
`num_entities` (*pytidyhtml5.OptionId attribute*), 18

O

`object` (*pytidyhtml5.AttrId attribute*), 31
`object` (*pytidyhtml5.TagId attribute*), 24
`object_missing_alt` (*pytidyhtml5.Strings attribute*), 40
`obsolete_element` (*pytidyhtml5.Strings attribute*), 40
`ok` (*pytidyhtml5.ParseOutcome attribute*), 46
`ol` (*pytidyhtml5.TagId attribute*), 24
`omit` (*pytidyhtml5.DoctypeModes attribute*), 20
`omit_optional_tags` (*pytidyhtml5.OptionId attribute*), 18
`on_abort` (*pytidyhtml5.AttrId attribute*), 31
`on_afterprint` (*pytidyhtml5.AttrId attribute*), 31
`on_afterupdate` (*pytidyhtml5.AttrId attribute*), 31
`on_beforeprint` (*pytidyhtml5.AttrId attribute*), 31
`on_beforeunload` (*pytidyhtml5.AttrId attribute*), 31
`on_beforeupdate` (*pytidyhtml5.AttrId attribute*), 31
`on_blur` (*pytidyhtml5.AttrId attribute*), 31
`on_canplay` (*pytidyhtml5.AttrId attribute*), 31
`on_canplaythrough` (*pytidyhtml5.AttrId attribute*), 31
`on_change` (*pytidyhtml5.AttrId attribute*), 31
`on_click` (*pytidyhtml5.AttrId attribute*), 31
`on_contextmenu` (*pytidyhtml5.AttrId attribute*), 31
`on_cuechange` (*pytidyhtml5.AttrId attribute*), 31
`on_dataavailable` (*pytidyhtml5.AttrId attribute*), 31
`on_datasetchanged` (*pytidyhtml5.AttrId attribute*), 31
`on_datasetcomplete` (*pytidyhtml5.AttrId attribute*), 31
`on_dbclick` (*pytidyhtml5.AttrId attribute*), 31
`on_drag` (*pytidyhtml5.AttrId attribute*), 31
`on_dragend` (*pytidyhtml5.AttrId attribute*), 31
`on_dragenter` (*pytidyhtml5.AttrId attribute*), 31
`on_dragleave` (*pytidyhtml5.AttrId attribute*), 31
`on_dragover` (*pytidyhtml5.AttrId attribute*), 31
`on_dragstart` (*pytidyhtml5.AttrId attribute*), 31
`on_drop` (*pytidyhtml5.AttrId attribute*), 31
`on_durationchange` (*pytidyhtml5.AttrId attribute*), 31
`on_emptied` (*pytidyhtml5.AttrId attribute*), 31
`on_ended` (*pytidyhtml5.AttrId attribute*), 31
`on_error` (*pytidyhtml5.AttrId attribute*), 31
`on_errorupdate` (*pytidyhtml5.AttrId attribute*), 31
`on_focus` (*pytidyhtml5.AttrId attribute*), 31
`on_hashchange` (*pytidyhtml5.AttrId attribute*), 31
`on_input` (*pytidyhtml5.AttrId attribute*), 31
`on_invalid` (*pytidyhtml5.AttrId attribute*), 32
`on_keydown` (*pytidyhtml5.AttrId attribute*), 32
`on_keypress` (*pytidyhtml5.AttrId attribute*), 32

- `on_keyup` (*pytidyhtml5.AttrId* attribute), 32
 - `on_load` (*pytidyhtml5.AttrId* attribute), 32
 - `on_loadeddata` (*pytidyhtml5.AttrId* attribute), 32
 - `on_loadedmetadata` (*pytidyhtml5.AttrId* attribute), 32
 - `on_loadstart` (*pytidyhtml5.AttrId* attribute), 32
 - `on_message` (*pytidyhtml5.AttrId* attribute), 32
 - `on_mousedown` (*pytidyhtml5.AttrId* attribute), 32
 - `on_mousemove` (*pytidyhtml5.AttrId* attribute), 32
 - `on_mouseout` (*pytidyhtml5.AttrId* attribute), 32
 - `on_mouseover` (*pytidyhtml5.AttrId* attribute), 32
 - `on_mouseup` (*pytidyhtml5.AttrId* attribute), 32
 - `on_mousewheel` (*pytidyhtml5.AttrId* attribute), 32
 - `on_offline` (*pytidyhtml5.AttrId* attribute), 32
 - `on_online` (*pytidyhtml5.AttrId* attribute), 32
 - `on_pagehide` (*pytidyhtml5.AttrId* attribute), 32
 - `on_pageshow` (*pytidyhtml5.AttrId* attribute), 32
 - `on_pause` (*pytidyhtml5.AttrId* attribute), 32
 - `on_play` (*pytidyhtml5.AttrId* attribute), 32
 - `on_playing` (*pytidyhtml5.AttrId* attribute), 32
 - `on_popstate` (*pytidyhtml5.AttrId* attribute), 32
 - `on_progress` (*pytidyhtml5.AttrId* attribute), 32
 - `on_ratechange` (*pytidyhtml5.AttrId* attribute), 32
 - `on_readystatechange` (*pytidyhtml5.AttrId* attribute), 32
 - `on_redo` (*pytidyhtml5.AttrId* attribute), 32
 - `on_reset` (*pytidyhtml5.AttrId* attribute), 32
 - `on_resize` (*pytidyhtml5.AttrId* attribute), 32
 - `on_rowenter` (*pytidyhtml5.AttrId* attribute), 32
 - `on_rowexit` (*pytidyhtml5.AttrId* attribute), 32
 - `on_scroll` (*pytidyhtml5.AttrId* attribute), 32
 - `on_seeked` (*pytidyhtml5.AttrId* attribute), 32
 - `on_seeking` (*pytidyhtml5.AttrId* attribute), 32
 - `on_select` (*pytidyhtml5.AttrId* attribute), 32
 - `on_show` (*pytidyhtml5.AttrId* attribute), 32
 - `on_stalled` (*pytidyhtml5.AttrId* attribute), 33
 - `on_storage` (*pytidyhtml5.AttrId* attribute), 33
 - `on_submit` (*pytidyhtml5.AttrId* attribute), 33
 - `on_suspend` (*pytidyhtml5.AttrId* attribute), 33
 - `on_timeupdate` (*pytidyhtml5.AttrId* attribute), 33
 - `on_undo` (*pytidyhtml5.AttrId* attribute), 33
 - `on_unload` (*pytidyhtml5.AttrId* attribute), 33
 - `on_volumechange` (*pytidyhtml5.AttrId* attribute), 33
 - `on_waiting` (*pytidyhtml5.AttrId* attribute), 33
 - `opacity` (*pytidyhtml5.AttrId* attribute), 33
 - `open` (*pytidyhtml5.AttrId* attribute), 33
 - `optgroup` (*pytidyhtml5.TagId* attribute), 24
 - `optimum` (*pytidyhtml5.AttrId* attribute), 33
 - `option` (*pytidyhtml5.TagId* attribute), 24
 - `Option()` (in module *pytidyhtml5*), 3
 - `option_removed` (*pytidyhtml5.Strings* attribute), 40
 - `option_removed_applied` (*pytidyhtml5.Strings* attribute), 40
 - `option_removed_unapplied` (*pytidyhtml5.Strings* attribute), 40
 - `OptionId` (class in *pytidyhtml5*), 16
 - `OptionType` (class in *pytidyhtml5*), 19
 - `out_char_encoding` (*pytidyhtml5.OptionId* attribute), 18
 - `out_file` (*pytidyhtml5.OptionId* attribute), 18
 - `output` (*pytidyhtml5.Message* attribute), 13
 - `output` (*pytidyhtml5.TagId* attribute), 24
 - `output_bom` (*pytidyhtml5.OptionId* attribute), 18
 - `output_default` (*pytidyhtml5.Message* attribute), 13
- ## P
- `p` (*pytidyhtml5.TagId* attribute), 24
 - `p_print_tabs` (*pytidyhtml5.OptionId* attribute), 18
 - `param` (*pytidyhtml5.TagId* attribute), 24
 - `parent` (*pytidyhtml5.Node* attribute), 6
 - `ParseOutcome` (class in *pytidyhtml5*), 46
 - `pattern` (*pytidyhtml5.AttrId* attribute), 33
 - `php` (*pytidyhtml5.NodeType* attribute), 21
 - `picture` (*pytidyhtml5.TagId* attribute), 24
 - `placeholder` (*pytidyhtml5.AttrId* attribute), 33
 - `plaintext` (*pytidyhtml5.TagId* attribute), 24
 - `playsinline` (*pytidyhtml5.AttrId* attribute), 33
 - `pos` (*pytidyhtml5.Message* attribute), 12
 - `pos_default` (*pytidyhtml5.Message* attribute), 12
 - `position` (*pytidyhtml5.Message* attribute), 13
 - `position` (*pytidyhtml5.Node* attribute), 7
 - `poster` (*pytidyhtml5.AttrId* attribute), 33
 - `potential_header_bold` (*pytidyhtml5.Strings* attribute), 40
 - `potential_header_italics` (*pytidyhtml5.Strings* attribute), 40
 - `potential_header_underline` (*pytidyhtml5.Strings* attribute), 40
 - `pre` (*pytidyhtml5.TagId* attribute), 24
 - `pre` (*pytidyhtml5.UseCustomTagsState* attribute), 20
 - `pre_tags` (*pytidyhtml5.OptionId* attribute), 18
 - `prefix` (*pytidyhtml5.AttrId* attribute), 33
 - `prefix` (*pytidyhtml5.Message* attribute), 12
 - `prefix_default` (*pytidyhtml5.Message* attribute), 12
 - `preload` (*pytidyhtml5.AttrId* attribute), 33
 - `preserve` (*pytidyhtml5.Uppercase* attribute), 21
 - `preserve_entities` (*pytidyhtml5.OptionId* attribute), 18
 - `preserveaspectratio` (*pytidyhtml5.AttrId* attribute), 33
 - `pretty_print` (*pytidyhtml5.ConfigCategory* attribute), 19
 - `prev` (*pytidyhtml5.Node* attribute), 6
 - `previous_location` (*pytidyhtml5.Strings* attribute), 40
 - `priority_attributes` (*pytidyhtml5.OptionId* attribute), 18

`proc_ins` (*pytidyhtml5.NodeType* attribute), 21
`profile` (*pytidyhtml5.AttrId* attribute), 33
`programmatic_objects_require_testing_applet` (*pytidyhtml5.Strings* attribute), 40
`programmatic_objects_require_testing_embedded` (*pytidyhtml5.Strings* attribute), 40
`programmatic_objects_require_testing_object` (*pytidyhtml5.Strings* attribute), 40
`programmatic_objects_require_testing_script` (*pytidyhtml5.Strings* attribute), 40
`progress` (*pytidyhtml5.TagId* attribute), 24
`prompt` (*pytidyhtml5.AttrId* attribute), 33
`property` (*pytidyhtml5.AttrId* attribute), 33
`proprietary_attr_value` (*pytidyhtml5.Strings* attribute), 40
`proprietary_attribute` (*pytidyhtml5.Strings* attribute), 40
`proprietary_element` (*pytidyhtml5.Strings* attribute), 40
`pubdate` (*pytidyhtml5.AttrId* attribute), 33
`punct_wrap` (*pytidyhtml5.OptionId* attribute), 18

Q

`q` (*pytidyhtml5.TagId* attribute), 24
`quiet` (*pytidyhtml5.OptionId* attribute), 18
`quote_ampersand` (*pytidyhtml5.OptionId* attribute), 18
`quote_marks` (*pytidyhtml5.OptionId* attribute), 18
`quote_nbsp` (*pytidyhtml5.OptionId* attribute), 18

R

`radiogroup` (*pytidyhtml5.AttrId* attribute), 33
`raw` (*pytidyhtml5.EncodingOptions* attribute), 20
`rb` (*pytidyhtml5.TagId* attribute), 24
`rbc` (*pytidyhtml5.TagId* attribute), 24
`rbspan` (*pytidyhtml5.AttrId* attribute), 33
`readonly` (*pytidyhtml5.AttrId* attribute), 33
`rel` (*pytidyhtml5.AttrId* attribute), 33
`remove_auto_redirect` (*pytidyhtml5.Strings* attribute), 40
`remove_auto_refresh` (*pytidyhtml5.Strings* attribute), 40
`remove_blink_marquee` (*pytidyhtml5.Strings* attribute), 40
`remove_flicker_animated_gif` (*pytidyhtml5.Strings* attribute), 40
`remove_flicker_applet` (*pytidyhtml5.Strings* attribute), 40
`remove_flicker_embed` (*pytidyhtml5.Strings* attribute), 40
`remove_flicker_object` (*pytidyhtml5.Strings* attribute), 40
`remove_flicker_script` (*pytidyhtml5.Strings* attribute), 41

`removed_html5` (*pytidyhtml5.Strings* attribute), 41
`repeated_attribute` (*pytidyhtml5.Strings* attribute), 41
`replace_color` (*pytidyhtml5.OptionId* attribute), 18
`replace_deprecated_html_applet` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_basefont` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_center` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_dir` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_font` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_isindex` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_menu` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_s` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_strike` (*pytidyhtml5.Strings* attribute), 41
`replace_deprecated_html_u` (*pytidyhtml5.Strings* attribute), 41
`replacing_element` (*pytidyhtml5.Strings* attribute), 41
`replacing_unex_element` (*pytidyhtml5.Strings* attribute), 41
`report_message_first` (*pytidyhtml5.Strings* attribute), 41
`report_message_last` (*pytidyhtml5.Strings* attribute), 41
`ReportLevel` (class in *pytidyhtml5*), 35
`required` (*pytidyhtml5.AttrId* attribute), 33
`reset` () (*pytidyhtml5.Option* method), 4
`resource` (*pytidyhtml5.AttrId* attribute), 33
`rev` (*pytidyhtml5.AttrId* attribute), 33
`reversed` (*pytidyhtml5.AttrId* attribute), 33
`rightmargin` (*pytidyhtml5.AttrId* attribute), 33
`role` (*pytidyhtml5.AttrId* attribute), 33
`root` (*pytidyhtml5.NodeType* attribute), 21
`rows` (*pytidyhtml5.AttrId* attribute), 33
`rowspan` (*pytidyhtml5.AttrId* attribute), 33
`rp` (*pytidyhtml5.TagId* attribute), 24
`rt` (*pytidyhtml5.TagId* attribute), 24
`rtc` (*pytidyhtml5.TagId* attribute), 24
`ruby` (*pytidyhtml5.TagId* attribute), 25
`rules` (*pytidyhtml5.AttrId* attribute), 33

S

`s` (*pytidyhtml5.TagId* attribute), 25
`samp` (*pytidyhtml5.TagId* attribute), 25
`sandbox` (*pytidyhtml5.AttrId* attribute), 34
`scheme` (*pytidyhtml5.AttrId* attribute), 34

scope (*pytidyhtml5.AttrId attribute*), 34
 scoped (*pytidyhtml5.AttrId attribute*), 34
 script (*pytidyhtml5.TagId attribute*), 25
 script_missing_noscript (*pytidyhtml5.Strings attribute*), 41
 script_not_keyboard_accessible_on_click (*pytidyhtml5.Strings attribute*), 41
 script_not_keyboard_accessible_on_mouse_down (*pytidyhtml5.Strings attribute*), 41
 script_not_keyboard_accessible_on_mouse_move (*pytidyhtml5.Strings attribute*), 41
 script_not_keyboard_accessible_on_mouse_over (*pytidyhtml5.Strings attribute*), 41
 script_not_keyboard_accessible_on_mouse_start (*pytidyhtml5.Strings attribute*), 41
 script_not_keyboard_accessible_on_mouse_start_end (*pytidyhtml5.Strings attribute*), 41
 script_not_keyboard_accessible_on_mouse_up (*pytidyhtml5.Strings attribute*), 41
 scrolling (*pytidyhtml5.AttrId attribute*), 34
 sdaform (*pytidyhtml5.AttrId attribute*), 34
 sdapref (*pytidyhtml5.AttrId attribute*), 34
 sdasuff (*pytidyhtml5.AttrId attribute*), 34
 seamless (*pytidyhtml5.AttrId attribute*), 34
 section (*pytidyhtml5.NodeType attribute*), 21
 section (*pytidyhtml5.TagId attribute*), 25
 select (*pytidyhtml5.TagId attribute*), 25
 selected (*pytidyhtml5.AttrId attribute*), 34
 server (*pytidyhtml5.TagId attribute*), 25
 servlet (*pytidyhtml5.TagId attribute*), 25
 set_language() (*in module pytidyhtml5*), 47
 set_value() (*pytidyhtml5.Option method*), 4
 shape (*pytidyhtml5.AttrId attribute*), 34
 shift_jis (*pytidyhtml5.EncodingOptions attribute*), 20
 show_errors (*pytidyhtml5.OptionId attribute*), 18
 show_filename (*pytidyhtml5.OptionId attribute*), 18
 show_info (*pytidyhtml5.OptionId attribute*), 18
 show_markup (*pytidyhtml5.OptionId attribute*), 18
 show_meta_change (*pytidyhtml5.OptionId attribute*), 18
 show_warnings (*pytidyhtml5.OptionId attribute*), 18
 showgrid (*pytidyhtml5.AttrId attribute*), 34
 showgridx (*pytidyhtml5.AttrId attribute*), 34
 showgridy (*pytidyhtml5.AttrId attribute*), 34
 size (*pytidyhtml5.AttrId attribute*), 34
 sizes (*pytidyhtml5.AttrId attribute*), 34
 skip_nested (*pytidyhtml5.OptionId attribute*), 18
 skipover_ascii_art (*pytidyhtml5.Strings attribute*), 41
 slot (*pytidyhtml5.AttrId attribute*), 34
 slot (*pytidyhtml5.TagId attribute*), 25
 small (*pytidyhtml5.TagId attribute*), 25
 sort_attributes (*pytidyhtml5.OptionId attribute*), 18
 source (*pytidyhtml5.TagId attribute*), 25
 space_preceding_xmldecl (*pytidyhtml5.Strings attribute*), 41
 spacer (*pytidyhtml5.TagId attribute*), 25
 span (*pytidyhtml5.AttrId attribute*), 34
 span (*pytidyhtml5.TagId attribute*), 25
 spellcheck (*pytidyhtml5.AttrId attribute*), 34
 src (*pytidyhtml5.AttrId attribute*), 34
 srcdoc (*pytidyhtml5.AttrId attribute*), 34
 srclang (*pytidyhtml5.AttrId attribute*), 34
 srcset (*pytidyhtml5.AttrId attribute*), 34
 standby (*pytidyhtml5.AttrId attribute*), 34
 start (*pytidyhtml5.AttrId attribute*), 34
 start (*pytidyhtml5.NodeType attribute*), 21
 start_end (*pytidyhtml5.NodeType attribute*), 21
 step (*pytidyhtml5.AttrId attribute*), 34
 strict (*pytidyhtml5.DoctypeModes attribute*), 21
 strict_tags_attr (*pytidyhtml5.OptionId attribute*), 18
 strike (*pytidyhtml5.TagId attribute*), 25
 string (*pytidyhtml5.FormatParameterType attribute*), 36
 string (*pytidyhtml5.OptionType attribute*), 19
 string_argument_bad (*pytidyhtml5.Strings attribute*), 41
 string_content_looks (*pytidyhtml5.Strings attribute*), 41
 string_discarding (*pytidyhtml5.Strings attribute*), 41
 string_doctype_given (*pytidyhtml5.Strings attribute*), 41
 string_error_count (*pytidyhtml5.Strings attribute*), 41
 string_error_count_error (*pytidyhtml5.Strings attribute*), 41
 string_error_count_warning (*pytidyhtml5.Strings attribute*), 41
 string_hello_access (*pytidyhtml5.Strings attribute*), 41
 string_html_proprietary (*pytidyhtml5.Strings attribute*), 41
 string_missing_malformed (*pytidyhtml5.Strings attribute*), 41
 string_muting_type (*pytidyhtml5.Strings attribute*), 42
 string_needs_intervention (*pytidyhtml5.Strings attribute*), 42
 string_no_errors (*pytidyhtml5.Strings attribute*), 42
 string_no_sysid (*pytidyhtml5.Strings attribute*), 42
 string_not_all_shown (*pytidyhtml5.Strings attribute*), 42
 string_plain_text (*pytidyhtml5.Strings attribute*), 42
 string_replacing (*pytidyhtml5.Strings attribute*),

42
string_specified (*pytidyhtml5.Strings attribute*), 42
string_unknown_option (*pytidyhtml5.Strings attribute*), 42
string_xml_declaration (*pytidyhtml5.Strings attribute*), 42
Strings (*class in pytidyhtml5*), 36
stroke (*pytidyhtml5.AttrId attribute*), 34
strokedasharray (*pytidyhtml5.AttrId attribute*), 34
strokedashoffset (*pytidyhtml5.AttrId attribute*), 34
strokelinecap (*pytidyhtml5.AttrId attribute*), 34
strokelinejoin (*pytidyhtml5.AttrId attribute*), 34
strokemiterlimit (*pytidyhtml5.AttrId attribute*), 34
strokeopacity (*pytidyhtml5.AttrId attribute*), 34
strokewidth (*pytidyhtml5.AttrId attribute*), 34
strong (*pytidyhtml5.TagId attribute*), 25
style (*pytidyhtml5.AttrId attribute*), 34
style (*pytidyhtml5.TagId attribute*), 25
style_sheet_control_presentation (*pytidyhtml5.Strings attribute*), 42
style_tags (*pytidyhtml5.OptionId attribute*), 18
stylesheets_require_testing_link (*pytidyhtml5.Strings attribute*), 42
stylesheets_require_testing_style_attr (*pytidyhtml5.Strings attribute*), 42
stylesheets_require_testing_style_element (*pytidyhtml5.Strings attribute*), 42
sub (*pytidyhtml5.TagId attribute*), 25
summary (*pytidyhtml5.AttrId attribute*), 34
summary (*pytidyhtml5.TagId attribute*), 25
sup (*pytidyhtml5.TagId attribute*), 25
suspected_missing_quote (*pytidyhtml5.Strings attribute*), 42
svg (*pytidyhtml5.TagId attribute*), 25

T

tab_size (*pytidyhtml5.OptionId attribute*), 18
tabindex (*pytidyhtml5.AttrId attribute*), 35
table (*pytidyhtml5.TagId attribute*), 25
table_may_require_header_abbr (*pytidyhtml5.Strings attribute*), 42
table_may_require_header_abbr_null (*pytidyhtml5.Strings attribute*), 42
table_may_require_header_abbr_spaces (*pytidyhtml5.Strings attribute*), 42
table_missing_caption (*pytidyhtml5.Strings attribute*), 42
table_missing_summary (*pytidyhtml5.Strings attribute*), 42
table_summary_invalid_null (*pytidyhtml5.Strings attribute*), 42
table_summary_invalid_placeholder (*pytidyhtml5.Strings attribute*), 42

table_summary_invalid_spaces (*pytidyhtml5.Strings attribute*), 42
tag_not_allowed_in (*pytidyhtml5.Strings attribute*), 42
TagId (*class in pytidyhtml5*), 21
target (*pytidyhtml5.AttrId attribute*), 35
tbody (*pytidyhtml5.TagId attribute*), 25
tc_label_col (*pytidyhtml5.Strings attribute*), 42
tc_label_file (*pytidyhtml5.Strings attribute*), 42
tc_label_lang (*pytidyhtml5.Strings attribute*), 42
tc_label_level (*pytidyhtml5.Strings attribute*), 42
tc_label_opt (*pytidyhtml5.Strings attribute*), 42
tc_main_error_load_config (*pytidyhtml5.Strings attribute*), 42
tc_opt_access (*pytidyhtml5.Strings attribute*), 42
tc_opt_ascii (*pytidyhtml5.Strings attribute*), 42
tc_opt_ashtml (*pytidyhtml5.Strings attribute*), 42
tc_opt_asxml (*pytidyhtml5.Strings attribute*), 42
tc_opt_bare (*pytidyhtml5.Strings attribute*), 42
tc_opt_big5 (*pytidyhtml5.Strings attribute*), 42
tc_opt_clean (*pytidyhtml5.Strings attribute*), 43
tc_opt_config (*pytidyhtml5.Strings attribute*), 43
tc_opt_errors (*pytidyhtml5.Strings attribute*), 43
tc_opt_exp_cfg (*pytidyhtml5.Strings attribute*), 43
tc_opt_exp_def (*pytidyhtml5.Strings attribute*), 43
tc_opt_file (*pytidyhtml5.Strings attribute*), 43
tc_opt_gdoc (*pytidyhtml5.Strings attribute*), 43
tc_opt_help (*pytidyhtml5.Strings attribute*), 43
tc_opt_helpcfg (*pytidyhtml5.Strings attribute*), 43
tc_opt_helpenv (*pytidyhtml5.Strings attribute*), 43
tc_opt_helpopt (*pytidyhtml5.Strings attribute*), 43
tc_opt_ibm858 (*pytidyhtml5.Strings attribute*), 43
tc_opt_indent (*pytidyhtml5.Strings attribute*), 43
tc_opt_iso2022 (*pytidyhtml5.Strings attribute*), 43
tc_opt_language (*pytidyhtml5.Strings attribute*), 43
tc_opt_latin0 (*pytidyhtml5.Strings attribute*), 43
tc_opt_latin1 (*pytidyhtml5.Strings attribute*), 43
tc_opt_mac (*pytidyhtml5.Strings attribute*), 43
tc_opt_modify (*pytidyhtml5.Strings attribute*), 43
tc_opt_numeric (*pytidyhtml5.Strings attribute*), 43
tc_opt_omit (*pytidyhtml5.Strings attribute*), 43
tc_opt_output (*pytidyhtml5.Strings attribute*), 43
tc_opt_quiet (*pytidyhtml5.Strings attribute*), 43
tc_opt_raw (*pytidyhtml5.Strings attribute*), 43
tc_opt_shiftjis (*pytidyhtml5.Strings attribute*), 43
tc_opt_showcfg (*pytidyhtml5.Strings attribute*), 43
tc_opt_upper (*pytidyhtml5.Strings attribute*), 43
tc_opt_utf16 (*pytidyhtml5.Strings attribute*), 43
tc_opt_utf16_be (*pytidyhtml5.Strings attribute*), 43
tc_opt_utf16_le (*pytidyhtml5.Strings attribute*), 43
tc_opt_utf8 (*pytidyhtml5.Strings attribute*), 43
tc_opt_version (*pytidyhtml5.Strings attribute*), 43
tc_opt_win1252 (*pytidyhtml5.Strings attribute*), 43
tc_opt_wrap (*pytidyhtml5.Strings attribute*), 43

tc_opt_xml (*pytidyhtml5.Strings attribute*), 43
 tc_opt_xmlcfg (*pytidyhtml5.Strings attribute*), 43
 tc_opt_xmlerrs (*pytidyhtml5.Strings attribute*), 44
 tc_opt_xmlhelp (*pytidyhtml5.Strings attribute*), 44
 tc_opt_xmlopts (*pytidyhtml5.Strings attribute*), 44
 tc_opt_xmlstrg (*pytidyhtml5.Strings attribute*), 44
 tc_string_char_encoding (*pytidyhtml5.Strings attribute*), 44
 tc_string_conf_header (*pytidyhtml5.Strings attribute*), 44
 tc_string_conf_name (*pytidyhtml5.Strings attribute*), 44
 tc_string_conf_note (*pytidyhtml5.Strings attribute*), 44
 tc_string_conf_type (*pytidyhtml5.Strings attribute*), 44
 tc_string_conf_value (*pytidyhtml5.Strings attribute*), 44
 tc_string_fatal_error (*pytidyhtml5.Strings attribute*), 44
 tc_string_file_manip (*pytidyhtml5.Strings attribute*), 44
 tc_string_lang_must_specify (*pytidyhtml5.Strings attribute*), 44
 tc_string_lang_not_found (*pytidyhtml5.Strings attribute*), 44
 tc_string_misc (*pytidyhtml5.Strings attribute*), 44
 tc_string_must_specify (*pytidyhtml5.Strings attribute*), 44
 tc_string_opt_not_documented (*pytidyhtml5.Strings attribute*), 44
 tc_string_out_of_memory (*pytidyhtml5.Strings attribute*), 44
 tc_string_process_directives (*pytidyhtml5.Strings attribute*), 44
 tc_string_unknown_option (*pytidyhtml5.Strings attribute*), 44
 tc_string_unknown_option_b (*pytidyhtml5.Strings attribute*), 44
 tc_string_vers_a (*pytidyhtml5.Strings attribute*), 44
 tc_string_vers_b (*pytidyhtml5.Strings attribute*), 44
 tc_string_xml (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_1 (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_2_a (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_2_b (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_3 (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_3_a (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_config (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_config_allw (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_config_name (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_config_type (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_env_1 (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_env_1_a (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_env_1_b (*pytidyhtml5.Strings attribute*), 44
 tc_txt_help_env_1_c (*pytidyhtml5.Strings attribute*), 45
 tc_txt_help_lang_1 (*pytidyhtml5.Strings attribute*), 45
 tc_txt_help_lang_2 (*pytidyhtml5.Strings attribute*), 45
 tc_txt_help_lang_3 (*pytidyhtml5.Strings attribute*), 45
 td (*pytidyhtml5.TagId attribute*), 25
 template (*pytidyhtml5.TagId attribute*), 25
 text (*pytidyhtml5.AttrId attribute*), 35
 text (*pytidyhtml5.NodeType attribute*), 21
 text_access_advice1 (*pytidyhtml5.Strings attribute*), 45
 text_access_advice2 (*pytidyhtml5.Strings attribute*), 45
 text_bad_form (*pytidyhtml5.Strings attribute*), 45
 text_bad_main (*pytidyhtml5.Strings attribute*), 45
 text_equivalents_require UpdatingApplet (*pytidyhtml5.Strings attribute*), 45
 text_equivalents_require UpdatingObject (*pytidyhtml5.Strings attribute*), 45
 text_equivalents_require UpdatingScript (*pytidyhtml5.Strings attribute*), 45
 text_general_info (*pytidyhtml5.Strings attribute*), 45
 text_general_info_plea (*pytidyhtml5.Strings attribute*), 45
 text_html_t_algorithm (*pytidyhtml5.Strings attribute*), 45
 text_invalid_uri (*pytidyhtml5.Strings attribute*), 45
 text_invalid_utf16 (*pytidyhtml5.Strings attribute*), 45
 text_invalid_utf8 (*pytidyhtml5.Strings attribute*), 45
 text_m_image_alt (*pytidyhtml5.Strings attribute*), 45
 text_m_image_map (*pytidyhtml5.Strings attribute*), 45
 text_m_link_alt (*pytidyhtml5.Strings attribute*), 45
 text_m_summary (*pytidyhtml5.Strings attribute*), 45
 text_sgml_chars (*pytidyhtml5.Strings attribute*), 45
 text_using_body (*pytidyhtml5.Strings attribute*), 45
 text_using_font (*pytidyhtml5.Strings attribute*), 45

`text_using_frames` (`pytidyhtml5.Strings` attribute), 45

`text_using_layer` (`pytidyhtml5.Strings` attribute), 45

`text_using_nobr` (`pytidyhtml5.Strings` attribute), 45

`text_using Spacer` (`pytidyhtml5.Strings` attribute), 45

`text_vendor_chars` (`pytidyhtml5.Strings` attribute), 45

`text_windows_chars` (`pytidyhtml5.Strings` attribute), 45

`textarea` (`pytidyhtml5.TagId` attribute), 25

`tfoot` (`pytidyhtml5.TagId` attribute), 25

`th` (`pytidyhtml5.TagId` attribute), 25

`thead` (`pytidyhtml5.TagId` attribute), 25

`tidycustomblocklevel_string` (`pytidyhtml5.Strings` attribute), 45

`tidycustomempty_string` (`pytidyhtml5.Strings` attribute), 45

`tidycustominline_string` (`pytidyhtml5.Strings` attribute), 45

`tidycustomno_string` (`pytidyhtml5.Strings` attribute), 45

`tidycustompre_string` (`pytidyhtml5.Strings` attribute), 45

`tidystrings_first` (`pytidyhtml5.Strings` attribute), 45

`tidystrings_last` (`pytidyhtml5.Strings` attribute), 46

`time` (`pytidyhtml5.TagId` attribute), 25

`title` (`pytidyhtml5.AttrId` attribute), 35

`title` (`pytidyhtml5.TagId` attribute), 25

`too_many_elements` (`pytidyhtml5.Strings` attribute), 46

`too_many_elements_in` (`pytidyhtml5.Strings` attribute), 46

`topmargin` (`pytidyhtml5.AttrId` attribute), 35

`tr` (`pytidyhtml5.TagId` attribute), 25

`track` (`pytidyhtml5.TagId` attribute), 25

`translate` (`pytidyhtml5.AttrId` attribute), 35

`trim_empty_element` (`pytidyhtml5.Strings` attribute), 46

`TriState` (class in `pytidyhtml5`), 19

`tt` (`pytidyhtml5.TagId` attribute), 25

`type` (`pytidyhtml5.AttrId` attribute), 35

`type` (`pytidyhtml5.MessageArg` attribute), 15

`type` (`pytidyhtml5.Node` attribute), 7

`type` (`pytidyhtml5.Option` attribute), 3

`typeof` (`pytidyhtml5.AttrId` attribute), 35

U

`u` (`pytidyhtml5.TagId` attribute), 25

`uint` (`pytidyhtml5.FormatParameterType` attribute), 36

`ul` (`pytidyhtml5.TagId` attribute), 25

`unescaped_ampersand` (`pytidyhtml5.Strings` attribute), 46

`unexpected_end_of_file` (`pytidyhtml5.Strings` attribute), 46

`unexpected_end_of_file_attr` (`pytidyhtml5.Strings` attribute), 46

`unexpected_endtag` (`pytidyhtml5.Strings` attribute), 46

`unexpected_endtag_err` (`pytidyhtml5.Strings` attribute), 46

`unexpected_endtag_in` (`pytidyhtml5.Strings` attribute), 46

`unexpected_equalsign` (`pytidyhtml5.Strings` attribute), 46

`unexpected_gt` (`pytidyhtml5.Strings` attribute), 46

`unexpected_quotemark` (`pytidyhtml5.Strings` attribute), 46

`unknown` (`pytidyhtml5.AttrId` attribute), 35

`unknown` (`pytidyhtml5.FormatParameterType` attribute), 36

`unknown` (`pytidyhtml5.TagId` attribute), 25

`unknown_category` (`pytidyhtml5.ConfigCategory` attribute), 19

`unknown_element` (`pytidyhtml5.Strings` attribute), 46

`unknown_element_looks_custom` (`pytidyhtml5.Strings` attribute), 46

`unknown_entity` (`pytidyhtml5.Strings` attribute), 46

`unknown_option` (`pytidyhtml5.OptionId` attribute), 18

`upper_case_attrs` (`pytidyhtml5.OptionId` attribute), 18

`upper_case_tags` (`pytidyhtml5.OptionId` attribute), 18

`Uppercase` (class in `pytidyhtml5`), 21

`urn` (`pytidyhtml5.AttrId` attribute), 35

`use_custom_tags` (`pytidyhtml5.OptionId` attribute), 18

`UseCustomTagsState` (class in `pytidyhtml5`), 20

`usemap` (`pytidyhtml5.AttrId` attribute), 35

`user` (`pytidyhtml5.DoctypeModes` attribute), 21

`using_br_inplace_of` (`pytidyhtml5.Strings` attribute), 46

`utf16` (`pytidyhtml5.EncodingOptions` attribute), 20

`utf16be` (`pytidyhtml5.EncodingOptions` attribute), 20

`utf16le` (`pytidyhtml5.EncodingOptions` attribute), 20

`utf8` (`pytidyhtml5.EncodingOptions` attribute), 20

V

`valign` (`pytidyhtml5.AttrId` attribute), 35

`value` (`pytidyhtml5.Attr` attribute), 10

`value` (`pytidyhtml5.AttrId` attribute), 35

`value` (`pytidyhtml5.MessageArg` attribute), 15

`value` (`pytidyhtml5.Option` attribute), 4

`valuetype` (`pytidyhtml5.AttrId` attribute), 35

`var` (`pytidyhtml5.TagId` attribute), 26

[vendor_specific_chars](#) (*pytidyhtml5.Strings* attribute), 46
[version](#) (*pytidyhtml5.AttrId* attribute), 35
[vert_space](#) (*pytidyhtml5.OptionId* attribute), 18
[video](#) (*pytidyhtml5.TagId* attribute), 26
[viewbox](#) (*pytidyhtml5.AttrId* attribute), 35
[vlink](#) (*pytidyhtml5.AttrId* attribute), 35
[vocab](#) (*pytidyhtml5.AttrId* attribute), 35
[vspace](#) (*pytidyhtml5.AttrId* attribute), 35

W

[warn_prop_attrs](#) (*pytidyhtml5.OptionId* attribute), 19
[warning](#) (*pytidyhtml5.ReportLevel* attribute), 36
[warnings](#) (*pytidyhtml5.ParseOutcome* attribute), 46
[wbr](#) (*pytidyhtml5.TagId* attribute), 26
[white_in_uri](#) (*pytidyhtml5.Strings* attribute), 46
[width](#) (*pytidyhtml5.AttrId* attribute), 35
[win1252](#) (*pytidyhtml5.EncodingOptions* attribute), 20
[word2000](#) (*pytidyhtml5.OptionId* attribute), 19
[wrap](#) (*pytidyhtml5.AttrId* attribute), 35
[wrap_asp](#) (*pytidyhtml5.OptionId* attribute), 19
[wrap_att_vals](#) (*pytidyhtml5.OptionId* attribute), 19
[wrap_jste](#) (*pytidyhtml5.OptionId* attribute), 19
[wrap_len](#) (*pytidyhtml5.OptionId* attribute), 19
[wrap_php](#) (*pytidyhtml5.OptionId* attribute), 19
[wrap_scriptlets](#) (*pytidyhtml5.OptionId* attribute), 19
[wrap_section](#) (*pytidyhtml5.OptionId* attribute), 19
[write_back](#) (*pytidyhtml5.OptionId* attribute), 19

X

[x](#) (*pytidyhtml5.AttrId* attribute), 35
[xhtml_out](#) (*pytidyhtml5.OptionId* attribute), 19
[xml_decl](#) (*pytidyhtml5.NodeType* attribute), 21
[xml_decl](#) (*pytidyhtml5.OptionId* attribute), 19
[xml_declaration_detected](#) (*pytidyhtml5.Strings* attribute), 46
[xml_id_syntax](#) (*pytidyhtml5.Strings* attribute), 46
[xml_lang](#) (*pytidyhtml5.AttrId* attribute), 35
[xml_out](#) (*pytidyhtml5.OptionId* attribute), 19
[xml_p_is](#) (*pytidyhtml5.OptionId* attribute), 19
[xml_space](#) (*pytidyhtml5.AttrId* attribute), 35
[xml_space](#) (*pytidyhtml5.OptionId* attribute), 19
[xml_tags](#) (*pytidyhtml5.OptionId* attribute), 19
[xmlns](#) (*pytidyhtml5.AttrId* attribute), 35
[xmlnsxlink](#) (*pytidyhtml5.AttrId* attribute), 35
[xmp](#) (*pytidyhtml5.TagId* attribute), 26

Y

[y](#) (*pytidyhtml5.AttrId* attribute), 35
[yes](#) (*pytidyhtml5.TriState* attribute), 20
[yes](#) (*pytidyhtml5.Uppercase* attribute), 21

Z

[zoomandpan](#) (*pytidyhtml5.AttrId* attribute), 35