scrAPI Cheat Sheet

Selectors

any element E an element of type E E.warning an E element whose class is "warning" (the document language specifies how class is determined). E#myid an E element with ID equal to "myid". E[foo] an E element with a "foo" attribute E[foo="bar"] an E element whose "foo" attribute value is exactly equal to "bar" E[foo~="bar"] an E element whose "foo" attribute value is a list of space-separated values, one of which is exactly equal to "bar" E[foo^="bar"] an E element whose "foo" attribute value begins exactly with the string "bar" E[foo\$="bar"] an E element whose "foo" attribute value ends exactly with the string "bar" E[foo*="bar"] an E element whose "foo" attribute value contains the substring "bar" E[hreflang|="en"] an E element whose "hreflang" attribute has a hyphen-separated list of values beginning (from the left) with "en" an E element, root of the document E:root E:nth-child(n) an E element, the n-th child of its parent E:nth-last-child(n) an E element, the n-th child of its parent, counting from the last one E:nth-of-type(n) an E element, the n-th sibling of its type E:nth-last-of-type(n) an E element, the n-th sibling of its type, counting from the last one E:first-child an E element, first child of its parent E:last-child an E element, last child of its parent E:first-of-type an E element, first sibling of its type E:last-of-type an E element, last sibling of its type E:only-child an E element, only child of its parent E:only-of-type an E element, only sibling of its type an E element that has no children (including text nodes) E:empty E:not(s) an E element that does not match simple selector s

an F element descendant of an E element

an F element preceded by an E element

an F element immediately preceded by an E element

an F element child of an E element

Substitution Values

E F

E > F E + F

E ~ F

.? Class name
#? ID attribute

[foo=?] Attribute value

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Scraping

```
Scraper.scrape(source, options?) => result
```

Scrapes source and returns the result. Source is one of:

String HTML content: parse and scrape.
URI Page URL: read, parse and scrape.

HTML:: Node Element or document, for use with structures.

Options for reading: :last modified, :etag, :redirect limit, :user agent, :timeout.

Options for parsing: :root_element, :parser, :parser_options (pass to Tidy).

Scraper Definition

```
process(selector, *values, extractor?) { |element| .... }
process(symbol?, selector, *values, extractor?) { |element| ... }
```

Use selector to select elements, and extractor to extract and store values. Pass each selected element to the block. Block can be used instead of or in combination with extractors.

Extract value from (see more options in API):

:element Element itself

:text Text value of element

Class Another scraper

"elem" Element if name matches

"@attr" Attribute if specified

"elem@attr" Attribute if specified on element

[value, ...] First value that matches

Extract value to (more options in API):

symbol Instance variable (e.g. :title to @title)
symbol[] Array instance variable (e.g. "links[]")

:skip If true, do not further process this element

Attribute accessors defined for each symbol used.

If first argument is symbol, uses that name to replace any other processing rule with same name.

```
process_first(selector, *values, extractor?) { |element| .... }
process_first(symbol?, selector, *values, extractor?) { |element| ... }
Similar to process but only processes the first selected element (if more than one).
```

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result(*symbols)

Specifies which instance variables to return. One symbol: return value of that variable. Multiple symbols: return object with suitable accessors.

array(*symbols)

Specifies which instance variables are arrays. Otherwise, stores only last extracted value.

```
selector(symbol, selector, *values)
selector(symbol?, selector, *values) { |elements| ... }
```

Defines selector method with the given name (symbol) that takes an element as argument and returns array of selected elements, empty if no elements selected. Defines first_method that returns the first selected element or nil.

Instance Methods

collect() Called after processing is done.

result() Called to return result. By default returns self if extracted. You can

override method, or redefine with class method result.

Example