macro-html Manual

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Table of Contents

1	Abstract Usage		1 1
2			
	2.1	List of defined regular element macros	2
	2.2	List of defined single element macros	2
3	Der	pendencies	3

1 Abstract

macro-html is a DSL for generating HTML¹. It aims to be fast, modular, cachable and concise. It does so by defining each element as a macro which expands to code printing the respective HTML source. It also employs a readtable syntax for element attributes.

macro-html.widgets is a collection of widget functions. Those functions utilize macro-html to print compound HTML elements such as lists, forms or even complete documents. The provided widgets are documented in *macro-html Widgets* (widgets.html).

• 1. *HTML5* (http://www.w3.org/TR/html5/)

2 Usage

macro-html exports an *element macro* for every valid HTML element as of HTML5. An element macro prints the respective HTML element including its attributes, child elements and text nodes to *standard-output*. Single element macros such as br take a *property list* of attributes as their arguments, e.g. (br :class "foo" ...). Regular tag macros such as p take an arbitrary number of children as arguments. The first argument

can optionally be an attribute list, e.g. (p '(:attributes :class "bar"
...) "foo" ...).

In order to ease specifying attributes for regular element macros the readtable macro-html:syntax provides a specialized reader syntax, e.g. (p [:class "bar" ...] "foo" ...).

Every child form gets evaluated exactly once. If a form evaluates to a string or pathname it will be escaped and printed inside the element, otherwise its return value will be ignored. Element macros can be nested to produce compound HTML output.

```
(p [:class "foo" :id "bar"]
   "Hello, " (b "World") "!"
   (br :class "baz")
   (symbol-name 'list))
▷ <P CLASS="foo" ID="bar">Hello, <B>World</B>
▷ <BR CLASS="baz">LIST</P>
```

Example usage of macro-html.

The function html-doctype prints the HTML !DOCTYPE element to *standard-output*. The macro text evaluates its body forms as if they were children of a element macro and can be used to explicitly print text nodes.

```
(defun hello (name)
  (text "Hello " name "!"))
```

(h1 (hello "Joe"))
▷ <H1>Hello Joe!</H1>

Example usage of text.

2.1 List of defined regular element macros

a, abbr, address, article, aside, audio, b, bdi, bdo, blockquote, body, button, canvas, caption, cite, code, colgroup, datalist, dd, del, details, dfn, div, dl, dt, em, embed, fieldset, figcaption, figure, footer, form, h1, h2, h3, h4, h5, h6, head, hgroup, header, html, i, iframe, ins, keygen, kbd, label, legend, li, map, mark, menu, meter, nav, noscript, object, ol, optgroup, option, output, p, pre, progress, q, rp, rt, ruby, s, samp, script, section, select, small, span, strong, style, sub, sup, table, tbody, td, textarea, tfoot, th, thead, time, title, tr, u, ul, var, video, wbr

2.2 List of defined single element macros

area, base, br, col, command, hr, img, input, link, meta, option, param, source, track

3 Dependencies

macro-html depends on named-readtables and shadows map and time as those symbols collide with HTML element names.