

The iso4ht TeX4ht package*

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Abstract

The iso4ht package, in conjunction with TeX4ht can be used to convert L^AT_EX iso class documents into HTML tagged documents.

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1 Introduction

The iso4ht package can be used in conjunction with the TeX4ht system to convert L^AT_EX iso class documents into HTML tagged documents. The iso class is for typesetting ISO standard documents [Wil96].

*This file has version number v0.1, last revised 2000/01/20.

Section 2 describes the package and commented source code for the package is in Section 3.

This manual is typeset according to the conventions of the \LaTeX DOCSTRIP utility which enables the automatic extraction of the \LaTeX macro source files [GMS94].

1.1 Acknowledgement

Development of the `iso4ht` package would not have been possible without the help and expertise of Eitan Gurari, and in particular his willingness to put up with the many questions I asked.

2 The `iso4ht` package

The `TeX4ht` system has been developed by Eitan Gurari (see Chapter 4 and Appendix B in [GR99]). It is a general purpose conversion system to convert \LaTeX tagged documents into HTML (or other *ML) tagged documents. `TeX4ht` can be obtained from <http://www.cis.ohio-state.edu/~gurari/TeX4ht/mn.html>. The `iso4ht` package is not guaranteed to work with versions of `TeX4ht` earlier than mid-January 2000. At the time of writing, the default `TeX4ht` distribution was dated mid-1999. The latest version of `TeX4ht` is obtainable from <http://www.cis.ohio-state.edu/~gurari/TeX4ht/bugfixes.html>.

To use the `iso4ht` package, just process the \LaTeX document as you would any other under `TeX4ht`. That is, either call the `ht` script a document starting like:

```
\documentclass[...]{isov2}
\usepackage[...]{tex4ht}
...
```

or call the `htlatex` script on a document without the `\usepackage[...]{tex4ht}` line.

3 The package code

The following code is based on `article.4ht`, `html0.4ht`, `html32.4ht` and `html4.4ht`, all written by Eitan Gurari.

Most of the necessary work already exists in `latex.4ht`, which sets up the \LaTeX kernel code. `article.4ht` provides the setup for the `article` class, and `html0.4ht`, `html32.4ht` and `html4.4ht` provide the HTML option-related configurations.

The `iso` class was originally based on the `article` class, so `isov2.4ht` is in turn based on `article.4ht` (although little code is actually reused). The HTML option-related configurations are embedded in `isov2.4ht` instead of being supplied as separate files.

Announce the name and version of the package.

```
1 ⟨*usc⟩
```

```
2 \typeout{[isov2.4ht 2000/01/20 version v0.1]}
3
```

3.1 Setup and hooks

The first major part of the code deals with setting up for configuring the L^AT_EX commands and environments, which forms the second major portion of the code.

Setting up may involve adding hooks into commands, either by redefining them or, in simpler cases prepending and/or appending code before and/or after the original code. It can also involve specifying that commands are configurable.

3.1.1 Table of contents

What follows is a revised version of the `article.4ht` setup for the `\tableofcontents`, `\listoffigures` and `\listoftables` commands. Parctically all of the revision has to do with replacing `article` sectioning commands (i.e., `\section`, `\subsection`, etc.) with the `iso` sectioning commands (i.e., `\clause`, `\sclause`, etc.).

```
\listof
4 \NewConfigure{listof}{6}
5
\tableofcontents
    The revised version of article.4ht \tableofcontents configuration setup.
    Do the tocdepth setup.
6 \def\tableofcontents{\futurelet\temp\TOC}
7 \edef\TOC{%
8   \noexpand\ifx [\noexpand\temp
9     \noexpand\expandafter\noexpand\TableOfContents
10    \noexpand\else
11      \noexpand\Auto:ent{%
12        \ifnum 1>\c@tocdepth\else clause,fibicl@use,likefibicl@use,normannex,infannex,repannex,\fi
13        \ifnum 2>\c@tocdepth \else sclause,\fi
14        \ifnum 3>\c@tocdepth \else ssclause,\fi
15        \ifnum 4>\c@tocdepth \else sssclause,\fi
16        \ifnum 5>\c@tocdepth \else ssssclause,\fi
17        \ifnum 6>\c@tocdepth \else sssssclause,\fi
18        UnDFexyz}%
19      \noexpand\fi}
20
21 \def\Auto:ent#1{%
22   \edef\auto:toc{\noexpand\TableOfContents[\ifx \auto:toc\UnDef
23     #1\else \auto:toc \fi]} \auto:toc
24   \global\let\auto:toc\UnDef }
25
    Specify the various kinds of entries in the ToC.
26 \def\tocnormannex#1#2#3{\par\annexname\ \toc:num{annex}{#1 (\normativename)}{#2}\par}%
27 \def\toclikennormannex#1#2#3{\par\SPAN{likennormannexToc}{#2}\par}%
28 \def\tocinfannex#1#2#3{\par\annexname\ \toc:num{infannex}{#1 (\informativename)}{#2}\par}%
29 \def\toclikeinfannex#1#2#3{\par\SPAN{likeinfannexToc}{#2}\par}%
30 \def\tocrepannex#1#2#3{\par\annexname\ \toc:num{annex}{#1}{#2}\par}%

```

```

31 \def\toclikerepannex#1#2#3{\par\ :SPAN{likerepannexToc}{#2}\par}%
32 \def\tocfibicl@use#1#2#3{\par\ :SPAN{fibicl@useToc}{#2}\par}%
33 \def\toclikefibicl@use#1#2#3{\par\ :SPAN{likefibicl@useToc}{#2}\par}%
34 \def\tocclause#1#2#3{\par\toc:num{clause}{#1}{#2}\par}%
35 \def\toclikeclause#1#2#3{\par\ :SPAN{likeclauseToc}{#2}\par}%
36 \def\tocssclause#1#2#3{\par\ \toc:num{ssclause}{#1}{#2}\par}
37 \def\toclikesclause#1#2#3{\par\ \ :SPAN{likesclauseToc}{#2}\par}
38 \def\tocsssclause#1#2#3{\par
39     \ \ \toc:num{ssssclause}{#1}{#2}\par}
40 \def\toclikessclause#1#2#3{\par
41     \ \ \ :SPAN{likessclauseToc}{#2}\par}
42 \def\tocssssclause#1#2#3{\par\ \ \toc:num{ssssclause}{#1}{#2}\par}
43 \def\toclikessssclause#1#2#3{\par\ \ \ :SPAN{likessssclauseToc}{#2}\par}
44 \def\tocssssclause#1#2#3{\par
45     \ \ \ \ \toc:num{ssssclause}{#1}{#2}\par}
46 \def\toclikessssclause#1#2#3{\par
47     \ \ \ \ \ :SPAN{likessssclauseToc}{#2}\par}
48 \def\tocssssclause#1#2#3{\par
49     \ \ \ \ \ \toc:num{ssssclause}{#1}{#2}\par}
50 \def\toclikessssclause#1#2#3{\par
51     \ \ \ \ \ \ :SPAN{likessssclauseToc}{#2}\par}

```

There is also a special entry to cater for the \title command (see page 7).

```

52 \def\toctitleclause#1#2#3{\par\toc:num{titleclause}{#1}{#2}\par}%
53 \def\tocliketitleclause#1#2#3{\par\ :SPAN{liketitleclauseToc}{#2}\par}%
54

```

The next bit is a straight copy of original TeX4ht code.

```

55 \def\toc:num#1#2#3{\def\ :temp{#1#2}\ :SPAN{#1Toc}{\ifx \ :temp\empty \else
56     #2 \fi #3}}
57 \def\ :tocs{\noexpand\ :tableofcontents}
58 \pend:defIII\addcontentsline{%
59     \def\ :temp{##1}\def\ :tempa{toc}\ifx \ :temp\ :tempa
60     \gHAdvance\TitleCount 1 \fi }
61 \def\@dottedtocline#1#2#3#4#5{\hbox{\def\ :numberline##1{\e :listof
62     ##1\ :listof}\c :listof#4\d :listof}\ignorespaces}
63

```

Setup the \@starttoc command.

```

64 \def\@starttoc#1{%
65     \begingroup
66     \makeatletter \Configure{cite}{-}{-}%
67     \def\ :temp{#1}\def\ :tempa{toc}%
68     \a :listof\par
69     \@input{\jobname.\ifx \ :temp\ :tempa otc\else #1\fi}%
70     \b :listof
71     \if@filesw
72     \expandafter\expandafter\csname
73     newwrite\endcsname\csname tf@#1\endcsname
74     \immediate\openout \csname tf@#1\endcsname \jobname.#1\relax
75     \fi

```

```

76 \global\@nobreakfalse
77 \endgroup}
78

```

The next chunk of code only applies for HTML.

```

79 \ifHtml
80 \NewConfigure{tableofcontents*}[1]{\edef\auto:toc{#1}%
81 \ifx \au:StartSec\UnDef
82 \let\au:StartSec\StartSec
83 \def\StartSec{\tableofcontents
84 \global\let\auto:toc\UnDef \StartSec}
85 \pend:def\tableofcontents{\gdef\StartSec{\au:StartSec}}
86 \fi
87 }
88

```

Define the various levels at which the document may be cut into separate files (\CutAt) and at which points a ToC may be produced (\TocAt).

NOTE: This may require modification to deal with the \title.

Cut at the clause (and annex) level.

```

89 \def\tempa{
90 \CutAt{clause,likeclause,%
91 normannex,infannex,repannex,fibicl@use,likefibicl@use}
92 \CutAt{likeclause,clause,%
93 normannex,infannex,repannex,fibicl@use,likefibicl@use}
94 \Configure{tableofcontents*}{clause,likeclause,%
95 normannex,infannex,repannex,fibicl@use,likefibicl@use}
96 }
97

```

Cut at the clause and subclause levels.

```

98 \def\tempb{
99 \TocAt*{clause,/likeclause,sclause,likesclause,%
100 normannex,infannex,repannex,fibicl@use,likefibicl@use}
101 \TocAt*{likeclause,/clause,sclause,likesclause,%
102 normannex,infannex,repannex,fibicl@use,likefibicl@use}
103 \CutAt{clause,likeclause,%
104 normannex,infannex,repannex,fibicl@use,likefibicl@use}
105 \CutAt{likeclause,clause,%
106 normannex,infannex,repannex,fibicl@use,likefibicl@use}
107 \Configure{tableofcontents*}{clause,likeclause,sclause,likesclause,%
108 ssclause,likessclause,%
109 normannex,infannex,repannex,fibicl@use,likefibicl@use}
110 }
111

```

Cut at the clause, subclause, and subsubclause levels.

```

112 \def\tempc{
113 \TocAt*{clause,/likeclause,sclause,likesclause,ssclause,likessclause,%
114 normannex,infannex,repannex,fibicl@use,likefibicl@use}
115 \TocAt*{likeclause,/clause,sclause,likesclause,ssclause,likessclause,%

```

```

116         normannex, infannex, repannex, fibicl@use, likefibicl@use}
117 \CutAt{clause, likeclause, sclause, likesclause, %
118         normannex, infannex, repannex, fibicl@use, likefibicl@use}
119 \CutAt{likeclause, clause, sclause, likesclause, %
120         normannex, infannex, repannex, fibicl@use, likefibicl@use}
121 \Configure{tableofcontents*}{clause, likeclause, sclause, likesclause, %
122         ssclause, likessclause, sssclause, likesssclause, %
123         normannex, infannex, repannex, fibicl@use, likefibicl@use}
124 }
125

```

Cut at the clause, subclause, subsubclause, and subsubsubclause levels.

```

126 \def\tempd{
127 \TocAt*{clause, /likeclause, sclause, likesclause, ssclause, likessclause, %
128         sssclause, likesssclause, %
129         normannex, infannex, repannex, fibicl@use, likefibicl@use}
130 \TocAt*{likeclause, /clause, sclause, likesclause, ssclause, likessclause, %
131         sssclause, likesssclause, %
132         normannex, infannex, repannex, fibicl@use, likefibicl@use}
133 \CutAt{clause, likeclause, sclause, likesclause, ssclause, likessclause, %
134         normannex, infannex, repannex, fibicl@use, likefibicl@use}
135 \CutAt{likeclause, clause, sclause, likesclause, ssclause, likessclause, %
136         normannex, infannex, repannex, fibicl@use, likefibicl@use}
137 \Configure{tableofcontents*}{clause, likeclause, sclause, likesclause, %
138         ssclause, likessclause, sssclause, likesssclause, %
139         ssssclause, likesssssclause, %
140         normannex, infannex, repannex, fibicl@use, likefibicl@use}
141 }
142

```

Now pick the cut levels appropriate for the cutting option. Option 4 generates the most cuts (down to subsubsubclauses) and option 1 one the least (clauses and annexes only).

```

143 \:CheckOption{4}
144 \if:Option
145     \:tempa \:tempb \:tempc \:tempd
146 \else\:CheckOption{3}
147     \if:Option
148         \:tempa \:tempb \:tempc
149     \else\:CheckOption{2}
150         \if:Option
151             \:tempa \:tempb
152         \else\:CheckOption{1}
153             \if:Option
154                 \:tempa
155             \fi
156         \fi
157     \fi
158 \fi
159

```

```

160 \fi % end ifHtml
161
    That ends the HTML specific code.
\listoffigures    The following code is copied from article.4ht.
\listoftables
162 \pend:def\listoffigures{\begingroup \a:listoffigures
163   \def\@starttoc{\:tableofcontents[lof]\:gobble}}
164 \append:def\listoffigures{\b:listoffigures \endgroup}
165 \pend:def\listoftables{\begingroup \a:listoftables
166   \def\@starttoc{\:tableofcontents[lot]\:gobble}}
167 \append:def\listoftables{\b:listoftables \endgroup}
168
169 \NewConfigure{listoffigures}{2}
170 \NewConfigure{listoftables}{2}
171
172 \def\toclot#1#2#3{\par\ \toc:num{table}{#1}{#2}\par}
173 \def\toclof#1#2#3{\par\ \toc:num{figure}{#1}{#2}\par}
174

```

3.1.2 Sectioning commands

This part of the code provides the setup for the sectioning commands.

For an ISO document, the Title comes after the ToC, Foreword and Introduction. The `iso \title` command should really end any previous sectioning commands, and the easiest way to manage this seems to be by redefining the `\title` command in terms of a sectioning command. In order to do this, some new commands are required and some `iso` commands redefined.

Eventually, it is the sectioning command that gets configured instead of the `\title` command. Another reason for doing things this way is that elsewhere, for a package under the `iso` class, I will be configuring a different `\title` command and I will be able to use this as a basis for that configuration.

```

\introelement    These require redefining as, for reasons I don't understand, the system falls
\compelement    over when it tries to process the iso \isoemptystring command. This is replaced
                  by a more direct test.

```

```

175 \renewcommand{\introelement}[1]{\ifx\empty#1\else {#1 ---\newline}\fi}
176 \renewcommand{\compelement}[1]{\ifx\empty#1\else { ---\newline #1}\fi}
177

```

```

\titleclause    A 'clause' for typesetting (in TeX4ht only) the title. This should make no entry
                 in the ToC. There is no typeset number, so life is a bit simpler than when normally
                 defining sectioning commands.

```

```

178 \newcommand{\titleclause}{%
179   \@startsection{titleclause}{100}% large level to avoid adding to ToC
180   {\z@}%
181   {\beforecskip}%
182   {\aftercskip}%
183   {\raggedright\Tfont\bfseries}}
184

```

`\title` Now redefine the original `\title` command in terms of `\titleclause*`.

```
185 \renewcommand{\title}[3]{%
186   \setcounter{clause}{0}
187   \gdef\thetitle{\introelement{#1} %
188                 \mainelement{#2} %
189                 \compelement{#3}}
190 \titleclause*{\thetitle}
191
```

Do the `\title` ‘clause’ hooks.

```
192 \let\no@titleclause\titleclause
193 \Def:Section\titleclause{}{#1}
194 \let\no:titleclause\titleclause
195 \def\titleclause{\rdef:sec{titleclause}}
196 \Def:Section\liketitleclause{}{#1}
197 \let\:\liketitleclause\liketitleclause
198 \let\liketitleclause\:\UnDef
199
```

Add the hooks for the normal sectioning commands. This is a revision of code in `article.4ht`.

```
200 \let\no@clause\clause
201 \Def:Section\clause{\ifnum \c:secnumdepth>\c@secnumdepth \else
202   \theclass \fi}{#1}
203 \let\no:clause\clause
204 \def\clause{\rdef:sec{clause}}
205 \Def:Section\likeclause{}{#1}
206 \let\:\likeclause\likeclause
207 \let\likeclause\:\UnDef
208
209 \let\no@sclause\sclause
210 \Def:Section\sclause{\ifnum \c:secnumdepth>\c@secnumdepth \else
211   \thesclause \fi}{#1}
212 \let\no:sclause\sclause
213 \def\sclause{\rdef:sec{sclause}}
214 \Def:Section\likesclause{}{#1}
215 \let\:\likesclause\likesclause
216 \let\likesclause\:\UnDef
217
218 \let\no:ssclause:ssclause
219 \Def:Section:ssclause{\ifnum \c:secnumdepth>\c@secnumdepth \else
220   \thessclause \fi}{#1}
221 \let\no:ssclause:ssclause
222 \def:ssclause{\rdef:sec{ssclause}}
223 \Def:Section\likessclause{}{#1}
224 \let\:\likessclause\likessclause
225 \let\likessclause\:\UnDef
226
227 \let\no@sssclause\sssclause
228 \Def:Section\sssclause{\ifnum \c:secnumdepth>\c@secnumdepth \else
```



```

229 \thesssclause \fi}{#1}
230 \let\no:sssclause\sssclause
231 \def\sssclause{\rdef:sec{sssclause}}
232 \Def:Section\likesssclause}{#1}
233 \let\likesssclause\likesssclause
234 \let\likesssclause\UnDef
235
236 \let\no:sssssclause\sssssclause
237 \Def:Section\sssssclause{\ifnum \c:secnumdepth>\c@secnumdepth \else
238 \thesssssclause \fi}{#1}
239 \let\no:sssssclause\sssssclause
240 \def\sssssclause{\rdef:sec{sssssclause}}
241 \Def:Section\likesssssclause}{#1}
242 \let\likesssssclause\likesssssclause
243 \let\likesssssclause\UnDef
244
245 \let\no:ssssssclause\ssssssclause
246 \Def:Section\ssssssclause{\ifnum \c:secnumdepth>\c@secnumdepth \else
247 \thessssssclause \fi}{#1}
248 \let\no:ssssssclause\ssssssclause
249 \def\ssssssclause{\rdef:sec{ssssssclause}}
250 \Def:Section\likessssssclause}{#1}
251 \let\likessssssclause\likessssssclause
252 \let\likessssssclause\UnDef
253
254 \let\no@fibicl@use\fibicl@use
255 \Def:Section\fibicl@use}{#1}
256 \let\no:fibicl@use\fibicl@use
257 \def\fibicl@use{\rdef:sec{fibicl@use}}
258 \Def:Section\likefibicl@use}{#1}
259 \let\likefibicl@use\likefibicl@use
260 \let\likefibicl@use\UnDef
261
262 \def\@normannex#1{%
263 \tocskip{\tocentryskip}
264 \SkipRefstepAnchor
265 \addcontentsline{toc}{annex}{\annexname\space\theannex\space(\normativename)\space#1}%
266 \csname @endnormannex\endcsname}
267
268 \let\tempb\normannex
269 \Def:Section\normannex{\theannex}{#1}
270 \let\normannex\normannex
271 \let\normannex\tempb
272 \let\no@normannex\@normannex
273 \def\@normannex#1{%
274 {\let\addcontentsline\gobbleIII\no@normannex{#1}}%
275 \HtmlEnv \Toc:Title{#1}\normannex{#1}}
276
277 \def\@infannex#1{%
278 \tocskip{\tocentryskip}

```

```

279 \SkipRefstepAnchor
280 \addcontentsline{toc}{annex}{\annexname\space\theannex\space(\informativename)\space#1}%
281 \csname @endinfannex\endcsname}
282
283 \let\tempb\infannex
284 \Def:Section\infannex{\theannex}{#1}
285 \let\infannex\infannex
286 \let\infannex\tempb
287 \let\no@infannex\@infannex
288 \def\@infannex#1{%
289   {\let\addcontentsline\gobbleIII\no@infannex{#1}}%
290   \HtmlEnv \Toc:Title{#1}\:infannex{#1}}
291
292 \def\@repannex#1{%
293   \tocskip{\tocentryskip}
294   \SkipRefstepAnchor
295   \addcontentsline{toc}{annex}{\annexname\space\theannex\space#1}%
296   \csname @endrepannex\endcsname}
297
298 \let\tempb\repannex
299 \Def:Section\repannex{\theannex}{#1}
300 \let\repannex\repannex
301 \let\repannex\tempb
302 \let\no@repannex\@repannex
303 \def\@repannex#1{%
304   {\let\addcontentsline\gobbleIII\no@repannex{#1}}%
305   \HtmlEnv \Toc:Title{#1}\:repannex{#1}}
306
Specify which sectioning commands end which kinds of section.
307 \Configure{endtitleclause}
308   {clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
309 \Configure{endliketitleclause}
310   {clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
311
312 \Configure{endclause}
313   {likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
314 \Configure{endlikeclause}
315   {clause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
316
317 \Configure{endsclause}
318   {likesclause,%
319   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
320 \Configure{endlikesclause}
321   {sclause,%
322   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
323
324 \Configure{endssclause}
325   {likessclause,sclause,likesclause,%
326   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}

```

```

327 \Configure{endlikessclause}
328   {ssclause,sclause,likesclause,%
329   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
330
331 \Configure{endsssscclause}
332   {likesssclause,ssclause,likessclause,sclause,likesclause,%
333   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
334 \Configure{endlikesssclause}
335   {sssscclause,ssclause,likessclause,sclause,likesclause,%
336   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
337
338 \Configure{endsssssclause}
339   {likessssclause,likesssclause,ssclause,likessclause,sclause,likesclause,%
340   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
341 \Configure{endlikesssssclause}
342   {sssssclause,likesssclause,ssclause,likessclause,sclause,likesclause,%
343   clause,likeclause,fibicl@use,likefibicl@use,normannex,infannex,repannex}
344
345 \Configure{endfibicl@use}{fibicl@use,endlikefibicl@use,clause,likeclause}
346 \Configure{endlikefibicl@use}{fibicl@use,endlikefibicl@use,clause,likeclause}
347
348 \Configure{endnormannex}{normannex,infannex,repannex,fibicl@use,likefibicl@use}
349 \Configure{endinfannex}{normannex,infannex,repannex,fibicl@use,likefibicl@use}
350 \Configure{endrepannex}{normannex,infannex,repannex,fibicl@use,likefibicl@use}
351

```

3.1.3 Miscellaneous

```

\caption      We have to add configuration hooks and code for captions.
\@makecaption 352 \NewConfigure{caption}[4]{\c: def\cptA: {#1}\c: def\cptB: {#2}%
353   \c: def\cptC: {#3}\c: def\cptD: {#4}}
354 \long\def\@makecaption#1#2{%
355   {\cptA: \cap: ref{#1}%
356   \cptB: }\cptC: {#2}\cptD: }}
357 \pend: def\caption{\SkipRefstepAnchor}
358

\theindex     \theindex is redefined to cater for the difference between printed documents
              with page numbers and HTML documents. This is a copy of the code in article.4ht.
359 \long\def\c: theindex: #1#2#3#4#5#6#7#8#9{%
360   \def\theindex{%
361     \def\idx: item{\SaveEverypar\everypar{ }#1}%
362     \def\endtheindex{\idx: item#2\RecallEverypar}%
363     \def\item{\idx: item\let\index\@gobble #3\def\idx: item{#4}}%
364     \def\subitem{\idx: item\let\index\@gobble #5\def\idx: item{#6}}%
365     \def\subsubitem{\idx: item\let\index\@gobble #7\def\idx: item{#8}}%
366     \def\indexspace{\idx: item#9\let\idx: item\empty}}
367

quote        A copy of the code from article.4ht.
quotation

```

```

368 \append:def\quote{\par\@totalleftmargin\z@}
369 \append:def\quotation{\a:quotation\par\@totalleftmargin\z@}
370 \NewConfigure{quotation}{1}
371

```

`\thefootnote` The default TeX4ht treatment of footnotes is to put each one into a separate file. In the iso case I want to have the footnote text in the same file as the body of the document. Eitan Gurari suggested the method implemented here to override the default (see also page 21).

```

372 \renewcommand{\thefootnote}{\arabic{footnote}\cscname PRNT\endcscname}
373

```

3.2 Configuration

All, or nearly all, configurations depend on the HTML level option chosen. Typically, `html0` results in empty or null values of the hooks. `html32` has some simple hook values, while `html4` are the most complex.

3.2.1 Table of contents

The ToC configuration is basically a copy of the relevant code from `html0.4ht`, `html32.4ht` and `html4.4ht`, from the `article` section of each of those.

```

\listof I'm not sure what \listof does, but it is related to the ToC, LoF and LoT.
\lof 374 \:CheckOption{0.0}
\lot 375 \if:Option
376   %%% Do html0
377   \ConfigureToc{lof}{\empty}{ }{}{}
378   \ConfigureToc{lot}{\empty}{ }{}{}
379 \else
380   \:CheckOption{3.2}
381   \if:Option
382   %%% Do html32
383   {\Configure{Needs}{Font\string_Size: #1}\ifcase \@ptsize
384     \or \Needs{11}\or \Needs{12}\else \fi}
385   \Configure{listof}{}{}{\HCode{<br\xml:empty>}}{}{}
386   \ConfigureToc{lof}{\empty}{\ }{}{\HCode{<br\xml:empty>}}
387   \ConfigureToc{lot}{\empty}{\ }{}{\HCode{<br\xml:empty>}}
388 \else
389   %%% Do html4
390   {\Configure{Needs}{Font\string_Size: #1}\ifcase \@ptsize
391     \or \Needs{11}\or \Needs{12}\else \fi}
392   \Configure{listof}{}{}{\HCode{<br\xml:empty>}}{}{}
393   \ConfigureToc{lof}
394     {\HCode{<span class="lofToc">}}{\ }{}{\HCode{</span><br\xml:empty>}}
395   \ConfigureToc{lot}
396     {\HCode{<span class="lotToc">}}{\ }{}{\HCode{</span><br\xml:empty>}}
397   \fi
398 \fi
399

```

3.2.2 Sectioning commands

Configure the sectioning commands, HTML option dependent.

```
\titleclause This code is based on the article sectioning configuration. In most cases only
\titleclause* the sectioning names have been changed. The annexes have a style of their own,
  \clause though.
  \clause* 400 \:CheckOption{0.0}
  \sclause 401 \if:Option
  \sclause* HTML option 0.0
  \ssclause 402 %%%% Do html0
  \ssclause* 403 \Configure{titleclause}{-}{-}{-}
  \sssclause 404 \Configure{liketitleclause}{-}{-}{-}
  \sssclause* 405 \Configure{clause}{-}{-}{\theclause\space}{-}
  \sssssclause 406 \Configure{likeclause}{-}{-}{-}
  \sssssclause* 407 \Configure{sclause}{-}{-}{\thesclause\space}{-}
  \sssssclause 408 \Configure{likesclause}{-}{-}{-}
  \sssssclause* 409 \Configure{ssclause}{-}{-}{\thesssclause\space}{-}
  \fibicl@use 410 \Configure{likessclause}{-}{-}{-}
  \fibicl@use* 411 \Configure{sssclause}{-}{-}{\thessssclause\space}{-}
  \fibicl@use* 412 \Configure{likesssclause}{-}{-}{-}
  \normannex 413 \Configure{sssssclause}{-}{-}{\thesssssclause\space}{-}
  \infannex 414 \Configure{likesssssclause}{-}{-}{-}
  \repannex 415 \Configure{sssssclause}{-}{-}{\thessssssclause\space}{-}
  416 \Configure{likesssssclause}{-}{-}{-}
  417 \Configure{fibicl@use}{-}{-}{-}
  418 \Configure{likefibicl@use}{-}{-}{-}
  419 \Configure{normannex}{-}{-}
  420 {\annexname~\theannex~(\normativename)\space}{-}
  421 \Configure{infannex}{-}{-}
  422 {\annexname~\theannex~(\informativename)\space}{-}
  423 \Configure{repannex}{-}{-}
  424 {\annexname~\theannex\space}{-}
  425
  426 \else
  427 \:CheckOption{3.2}
  428 \if:Option
  HTML option 3.2
  429 %%%% Do html3
  430 \Configure{titleclause}{-}{-}
  431 {\IgnorePar\HCode{<h1 class="titleHead">}}
  432 {\HCode{</h1>}\NoIndent \par}
  433 \Configure{titleclauseTITLE+}{#1}
  434 \Configure{liketitleclause}{-}{-}
  435 {\IgnorePar\HCode{<h1 class="titleHead">}}
  436 {\HCode{</h1>}\NoIndent \par}
  437
  438 \Configure{clause}{-}{-}
  439 {\IgnorePar\HCode{<h3 class="clauseHead">}}
```

```

440     \ifnum \c:secnumdepth>\c@secnumdepth
441     \else \theclause \space \fi
442     {\HCode{</h3>}\NoIndent \par}
443 \Configure{clauseTITLE+}{\theclause \space#1}
444 \Configure{likeclause}{-}{-}
445     {\IgnorePar\HCode{<h3 class="likeclauseHead">}}
446     {\HCode{</h3>}\NoIndent \par}
447
448 \Configure{sclause}{-}{-}
449     {\bgroup \IgnorePar\HCode{<h4 class="sclauseHead">}
450     \ifnum \c:secnumdepth>\c@secnumdepth
451     \else \thesclause \space \fi
452     {\HCode{</h4>}\NoIndent\egroup}
453 \Configure{sclauseTITLE+}{\thesclause \space#1}
454 \Configure{likesclause}{-}{-}
455     {\bgroup \IgnorePar\HCode{<h4 class="likesclauseHead">}}
456     {\HCode{</h4>}\NoIndent\egroup}
457
458 \Configure{ssclause}{-}{-}
459     {\bgroup \IgnorePar\HCode{<h5 class="ssclauseHead">}
460     \ifnum \c:secnumdepth>\c@secnumdepth
461     \else \thessclause \space \fi
462     {\HCode{</h5>}\NoIndent\egroup}
463 \Configure{likessclause}{-}{-}
464     {\bgroup \IgnorePar\HCode{<h5 class="likessclauseHead">}}
465     {\HCode{</h5>}\NoIndent\egroup}
466 \Configure{ssclauseTITLE+}{\thessclause \space#1}
467
468 \Configure{sssclause}{-}{-}
469     {\ShowPar\NoIndent\HCode{<span class="sssclauseHead">}\bgroup\bf
470     \thesssclause \space}
471     {\endgroup\HCode{</span>}\IgnorePar}
472 \Configure{likesssclause}{-}{-}
473     {\ShowPar\NoIndent\HCode{<span class="likesssclauseHead">}}
474     {\HCode{</span>}\IgnorePar}
475 \Configure{sssclauseTITLE+}{\thesssclause \space#1}
476
477 \Configure{ssssclause}{-}{-}
478     {\ShowPar\HCode{<span class="ssssclauseHead">}\bgroup\bf
479     \thesssclause \space}
480     {\endgroup\HCode{</span>}\IgnorePar}
481 \Configure{likessssclause}{-}{-}
482     {\ShowPar\HCode{<span class="likessssclauseHead">}\bgroup\bf}
483     {\endgroup\HCode{</span>}\IgnorePar}
484 \Configure{ssssclauseTITLE+}{\thesssclause \space#1}
485
486 \Configure{sssssclause}{-}{-}
487     {\ShowPar\HCode{<span class="sssssclauseHead">}\bgroup\bf
488     \thesssclause \space}
489     {\endgroup\HCode{</span>}\IgnorePar}

```

```

490 \Configure{likesssssclause}{-}{-}
491   {\ShowPar\HCode{<span class="likesssssclauseHead">}\begingroup\bf}
492   {\endgroup\HCode{</span>}\IgnorePar}
493 \Configure{sssssclauseTITLE+}{\thessssclause \space#1}
494
495 \Configure{fibicl@use}{-}{-}
496   {\IgnorePar\HCode{<h3 class="fibicl@useHead">}}
497   {\HCode{</h3>}\NoIndent \par}
498 \Configure{fibicl@useTITLE+}{#1}
499 \Configure{likefibicl@use}{-}{-}
500   {\IgnorePar\HCode{<h3 class="likefibicl@useHead">}}
501   {\HCode{</h3>}\NoIndent \par}
502
503 \Configure{normannex}{-}{-}
504   {\IgnorePar\HCode{<h3 class="normannexHead">}
505   \annexname\ \theannex\ (\normativename)\HCode{<BR\xml:empty>}}
506   {\HCode{</h3>}\NoIndent \par}
507 \Configure{normannexTITLE+}{\annexname\space \theannex\space (\normativename)\space #1}
508
509 \Configure{infannex}{-}{-}
510   {\IgnorePar\HCode{<h3 class="infannexHead">}
511   \annexname\ \theannex\ (\informativename)\HCode{<BR\xml:empty>}}
512   {\HCode{</h3>}\NoIndent \par}
513 \Configure{infannexTITLE+}{\annexname\space \theannex\space (\informativename)\space #1}
514
515 \Configure{repannex}{-}{-}
516   {\IgnorePar\HCode{<h3 class="repannexHead">}
517   \annexname\ \theannex\ \HCode{<BR\xml:empty>}}
518   {\HCode{</h3>}\NoIndent \par}
519 \Configure{repannexTITLE+}{\annexname\space \theannex\space #1}
520
521 \else
HTML default option (4.0)
522 %%% Do html4
523 \Configure{titleclause}{-}{-}
524   {\IgnorePar \EndP\IgnorePar\HCode{<h1 class="titleHead">}}
525   {\HCode{</h1>}\NoIndent \par}
526 \Configure{titleclauseTITLE+}{#1}
527 \Configure{liketitleclause}{-}{-}
528   {\IgnorePar \EndP\IgnorePar\HCode{<h1 class="titleHead">}}
529   {\HCode{</h1>}\NoIndent \par}
530
531 \Configure{clause}{-}{-}
532   {\IgnorePar \EndP\IgnorePar\HCode{<h3 class="clauseHead">}
533   \ifnum \c:secnumdepth>\c@secnumdepth
534   \else \theclause \space \fi}
535   {\HCode{</h3>}\NoIndent \par}
536 \Configure{clauseTITLE+}{\theclause\space#1}
537 \Configure{likeclause}{-}{-}

```

```

538     {\IgnorePar \EndP\IgnorePar\HCode{<h3 class="likeclauseHead">}}
539     {\HCode{</h3>}\NoIndent \par}
540
541 \Configure{sclause}{-}{-}
542     {\EndP\bgroup \IgnorePar\HCode{<h4 class="sclauseHead">}
543     \ifnum \c:secnumdepth>\c@secnumdepth
544     \else \thesclause \space \fi}
545     {\HCode{</h4>}\NoIndent\egroup}
546 \Configure{sclauseTITLE+}{\thesclause \space#1}
547 \Configure{likesclause}{-}{-}
548     {\EndP\bgroup \IgnorePar\HCode{<h4 class="likesclauseHead">}}
549     {\HCode{</h4>}\NoIndent\egroup}
550
551 \Configure{ssclause}{-}{-}
552     {\EndP\bgroup \IgnorePar\HCode{<h5 class="ssclauseHead">}
553     \ifnum \c:secnumdepth>\c@secnumdepth
554     \else \thessclause \space \fi}
555     {\HCode{</h5>}\NoIndent\egroup}
556 \Configure{likessclause}{-}{-}
557     {\EndP\bgroup \IgnorePar\HCode{<h5 class="likessclauseHead">}}
558     {\HCode{</h5>}\NoIndent\egroup}
559 \Configure{ssclauseTITLE+}{\thessclause \space#1}
560
561 \Configure{ssssclause}{-}{-}
562     {\ShowPar\NoIndent\HCode{<span class="ssssclauseHead">}\begingroup\bf
563     \thessssclause\space}
564     {\endgroup\HCode{</span>}\IgnorePar}
565 \Configure{likessssclause}{-}{-}
566     {\ShowPar\NoIndent\HCode{<span class="likessssclauseHead">}}
567     {\HCode{</span>}\IgnorePar}
568 \Css{.ssssclauseHead, .likessssclauseHead
569     { margin-top:2em; font-weight: bold;}}
570
571 \Configure{sssssclause}{-}{-}
572     {\ShowPar\HCode{<span class="sssssclauseHead">}\begingroup\bf
573     \thesssssclause\space}
574     {\endgroup\HCode{</span>}\IgnorePar}
575 \Configure{likesssssclause}{-}{-}
576     {\ShowPar\HCode{<span class="likesssssclauseHead">}\begingroup\bf}
577     {\endgroup\HCode{</span>}\IgnorePar}
578 \Css{.sssssclauseHead, .likesssssclauseHead
579     { font-weight: bold;}}
580
581 \Configure{ssssssclause}{-}{-}
582     {\ShowPar\HCode{<span class="ssssssclauseHead">}\begingroup\bf
583     \thessssssclause\space}
584     {\endgroup\HCode{</span>}\IgnorePar}
585 \Configure{likessssssclause}{-}{-}
586     {\ShowPar\HCode{<span class="likessssssclauseHead">}\begingroup\bf}
587     {\endgroup\HCode{</span>}\IgnorePar}

```



```

588 \Css{.sssssclauseHead, .likesssssclauseHead
589     { font-weight: bold;}}
590
591 \Configure{fibicl@use}{-}{-}
592     {\IgnorePar\EndP \IgnorePar\HCode{<h3 class="fibicl@useHead">}}
593     {\HCode{</h3>}\NoIndent \par}
594 \Configure{fibicl@useTITLE+}{#1}
595 \Configure{likefibicl@use}{-}{-}
596     {\IgnorePar\EndP \IgnorePar\HCode{<h3 class="likefibicl@useHead">}}
597     {\HCode{</h3>}\NoIndent \par}
598
599 \Configure{normannex}{-}{-}
600     {\IgnorePar \EndP\IgnorePar\HCode{<h3 class="normannexHead">}
601     \annexname\ \theannex\ (\normativename)\HCode{<BR\xml:empty>}}
602     {\HCode{</h3>}\NoIndent \par}
603 \Configure{normannexTITLE+}{\annexname\space \theannex\space (\normativename)\space #1}
604 \Css{h3.normannexHead{text-align: center}}
605
606 \Configure{infannex}{-}{-}
607     {\IgnorePar\EndP \IgnorePar\HCode{<h3 class="infannexHead">}
608     \annexname\ \theannex\ (\informativename)\HCode{<BR\xml:empty>}}
609     {\HCode{</h3>}\NoIndent \par}
610 \Configure{infannexTITLE+}{\annexname\space \theannex\space (\informativename)\space #1}
611 \Css{h3.infannexHead{text-align: center}}
612
613 \Configure{repannex}{-}{-}
614     {\IgnorePar\EndP \IgnorePar\HCode{<h3 class="repannexHead">}
615     \annexname\ \theannex\ \HCode{<BR\xml:empty>}}
616     {\HCode{</h3>}\NoIndent \par}
617 \Configure{repannexTITLE+}{\annexname\space \theannex\space #1}
618 \Css{h3.repannexHead{text-align: center}}
619
620 \fi
621 \fi
622
        Reconfigure sectioning if not HTML.
623 \ifHtml \else
624 \ifx\bf\UnDef
625     \def\bf{\normalfont\bfseries}
626 \fi
627 \Configure{titleclause}{\begingroup\bf}{\endgroup}
628 \Configure{liketitleclause}{\begingroup\bf}{\endgroup}
629 \Configure{clause}{-}{-}{\begingroup\bf\theclause\space}{\endgroup}
630 \Configure{likeclause}{-}{-}{\begingroup\bf}{\endgroup}
631 \Configure{sclause}{-}{-}{\begingroup\bf\thesclause\space}{\endgroup}
632 \Configure{likesclause}{-}{-}{\begingroup\bf}{\endgroup}
633 \Configure{ssclause}{-}{-}{\begingroup\bf\thesclause\space}{\endgroup}
634 \Configure{likessclause}{-}{-}{\begingroup\bf}{\endgroup}
635 \Configure{ssscclause}{-}{-}

```

```

636     {\begingroup\bf\thesssclause\space}{\endgroup}
637 \Configure{likesssclause}{-}{-}{\begingroup\bf}{\endgroup}
638 \Configure{sssssclause}{-}{-}
639     {\begingroup\it\thessssclause\space}{\endgroup}
640 \Configure{likesssclause}{-}{-}
641     {\begingroup\it}{\endgroup}
642 \Configure{sssssclause}{-}{-}
643     {\begingroup\it\thesssssclause\space}{\endgroup}
644 \Configure{likessssclause}{-}{-}
645     {\begingroup\it}{\endgroup}
646 \Configure{fibicl@use}{-}{-}{\begingroup\bf}{\endgroup}
647 \Configure{likefibicl@use}{-}{-}{\begingroup\bf}{\endgroup}
648 \Configure{normannex}{-}{-}
649     {\begingroup\bf \annexname~\theannex~(\normativename)\space}{\endgroup}
650 \Configure{infannex}{-}{-}
651     {\begingroup\bf \annexname~\theannex~(\informativename)\space}{\endgroup}
652 \Configure{repannex}{-}{-}
653     {\begingroup\bf v\annexname~\theannex\space}{\endgroup}
654 \fi
655

```

3.2.3 Miscellaneous

`\caption` Configure the `\caption` command.

```

656 \:CheckOption{0.0}
657 \if:Option
    The html0 option is in effect.
658   %%% Do html0
659   \Configure{caption}{-}{-}{-}
660 \else
661   \:CheckOption{3.2}
662   \if:Option
    The html32 option is in effect.
663   %%% Do html32
664   \Configure{caption}{\HCode{\if:nopar \else <br\xml:empty>\fi
665     <div align="center"><table\Hnewline>
666     <tr valign="bottom"><td nowrap><strong>}}
667     {} {\HCode{</strong></td><td \Hnewline}}
668     {\HCode{</td></tr></table></div>}}
669   \else
    The html4 option (the default, unless specifically overridden by html0 or html32)
    is in effect.
670   %%% Do html4
671   \Configure{caption}{\HCode{\if:nopar \else <br\xml:empty>\fi
672     \:xhtml{\IgnorePar\EndP}\HCode{<div align="center"
673     class="caption"><table class="caption"\Hnewline><tr
674     valign="baseline" class="caption"><td class="id">}}
675     {: } {\HCode{</td><td \Hnewline class="content">}}

```

```

676      {\HCode{</td></tr></table></div>}}
677      \Css{.caption td.id{font-weight: bold; white-space: nowrap; }}
678      \fi
679 \fi
680

```

theindex Copy of original TeX4ht code. There are 9 hooks for possible configuration.

```

681 \:CheckOption{0.0}
682 \if:Option
683   %%%% Do html0
684   \Configure{theindex}{}{}{}{}{}{}{}{}
685 \else
686   \:CheckOption{3.2}
687   \if:Option
688     %%%% Do html32
689     \Configure{theindex}
690       {\HCode{<div>}}
691       {\HCode{</div>}}
692       {}
693       {\HCode{<br\xml:empty>}\hfil\break}
694       {\ \ \ \ }
695       {\HCode{<br\xml:empty>}\hfil\break}
696       {\ \ \ \ \ \ \ \ }
697       {\HCode{<br\xml:empty>}\hfil\break}
698       {\hbox{\HCode{<p>}}}
699   \else
700     %%%% Do html4
701     \Configure{theindex}
702       {\HCode{<div class="theindex">}\let\end:theidx\empty}
703       {\end:theidx\HCode{</div>}}
704       {}
705       {\HCode{<br\xml:empty>}\hfil\break}
706       {\ \ \ \ }
707       {\HCode{<br\xml:empty>}\hfil\break}
708       {\ \ \ \ \ \ \ \ }
709       {\HCode{<br\xml:empty>}\hfil\break}
710       {\hbox{\end:theidx\HCode{<p class="theindex">}}}%
711       \def\end:theidx{\HCode{</p>}}
712   \fi
713 \fi
714

```

quotation These are all quotation-like environments. **quotation** and **quote** are original TeX4ht, while the others are specifically for iso.

```

anote 715 \:CheckOption{0.0}
note 716 \if:Option
anexample 717 %%%% Do html0
example 718 \ConfigureEnv{quotation}{}{}{}{}
719 \ConfigureEnv{quote}{}{}{}{}
720 \ConfigureEnv{anote}{}{}{}{}

```

```

721 \ConfigureEnv{note}{}{}{}{}
722 \ConfigureEnv{anexample}{}{}{}{}
723 \ConfigureEnv{example}{}{}{}{}
724 \else
725 \:CheckOption{3.2}
726 \if:Option
727 %%%% Do html32
728 \ConfigureEnv{quotation}{}{}{\start:env{quotation}}{\end:env}
729 \ConfigureEnv{quote}{}{}{\start:env{quote}}{\end:env}
730 \ConfigureEnv{anote}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
731     {\start:env{anote}}{\end:env}
732 \ConfigureEnv{note}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
733     {\start:env{note}}{\end:env}
734 \ConfigureEnv{anexample}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
735     {\start:env{anexample}}{\end:env}
736 \ConfigureEnv{example}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
737     {\start:env{example}}{\end:env}
738 \else
739 %%%% Do html4
740 \ConfigureEnv{quotation}{}{}{\start:env{quotation}}{\end:env}
741 \ConfigureEnv{quote}{}{}{\start:env{quote}}{\end:env}
742 \Css{.quote {margin-bottom:0.25em;
743     margin-top:0.25em;
744     margin-left:1em;}}
745 \ConfigureEnv{anote}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
746     {\start:env{anote}}{\end:env}
747 \ConfigureEnv{note}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
748     {\start:env{note}}{\end:env}
749 \ConfigureEnv{anexample}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
750     {\start:env{anexample}}{\end:env}
751 \ConfigureEnv{example}{\HCode{<blockquote>}}{\HCode{</blockquote>}}%
752     {\start:env{example}}{\end:env}
753 \fi
754 \fi
755

```

description These all all description-like environments. `description` is the original TeX4ht configuration, while the others are new for iso.

references 756 \:CheckOption{0.0}

symbols 757 \if:Option

```

758 %%%% Do html0
759 \ConfigureList{description}{}{}{}{}{}
760 \ConfigureList{nreferences}{}{}{}{}{}
761 \ConfigureList{references}{}{}{}{}{}
762 \ConfigureList{symbols}{}{}{}{}{}
763 \else
764 \:CheckOption{3.2}
765 \if:Option
766 %%%% Do html32
767 \ConfigureList{description}%

```

```

768     {\HCode{<dl>}}
769     {\HCode{</dl>}\ShowPar}
770     {\HCode{<dt>}\bgroup \bf}
771     {\egroup\HCode{<dd\Hnewline>}}
772 \ConfigureList{nreferences}%
773     {\HCode{<dl>}}
774     {\HCode{</dl>}\ShowPar}
775     {\HCode{<dt>}\bgroup \bf}
776     {\egroup\HCode{<dd\Hnewline>}}
777 \ConfigureList{references}%
778     {\HCode{<dl>}}
779     {\HCode{</dl>}\ShowPar}
780     {\HCode{<dt>}\bgroup \bf}
781     {\egroup\HCode{<dd\Hnewline>}}
782 \ConfigureList{symbols}%
783     {\HCode{<dl>}}
784     {\HCode{</dl>}\ShowPar}
785     {\HCode{<dt>}\bgroup \bf}
786     {\egroup\HCode{<dd\Hnewline>}}
787 \else
788 %%%% Do html4
789     \ConfigureList{description}%
790     {\EndP\HCode{<dl class="description">}\let\end:itm=\empty}
791     {\EndP\HCode{</dd></dl>}\ShowPar}
792     {\end:itm\def\end:itm{\EndP\Tg</dd>}
793     \HCode{<dt class="description">}\bgroup \bf}
794     {\egroup\EndP\HCode{</dt><dd\Hnewline class="description">}}
795 \ConfigureList{nreferences}%
796     {\EndP\HCode{<dl class="nreferences">}\let\end:itm=\empty}
797     {\EndP\HCode{</dd></dl>}\ShowPar}
798     {\end:itm\def\end:itm{\EndP\Tg</dd>}
799     \HCode{<dt class="nreferences">}\bgroup \bf}
800     {\egroup\EndP\HCode{</dt><dd\Hnewline class="nreferences">}}
801 \ConfigureList{references}%
802     {\EndP\HCode{<dl class="references">}\let\end:itm=\empty}
803     {\EndP\HCode{</dd></dl>}\ShowPar}
804     {\end:itm\def\end:itm{\EndP\Tg</dd>}
805     \HCode{<dt class="references">}\bgroup \bf}
806     {\egroup\EndP\HCode{</dt><dd\Hnewline class="references">}}
807 \ConfigureList{symbols}%
808     {\EndP\HCode{<dl class="symbols">}\let\end:itm=\empty}
809     {\EndP\HCode{</dd></dl>}\ShowPar}
810     {\end:itm\def\end:itm{\EndP\Tg</dd>}
811     \HCode{<dt class="symbols">}\bgroup \bf}
812     {\egroup\EndP\HCode{</dt><dd\Hnewline class="symbols">}}
813 \fi
814 \fi
815

```

`\footnotetext` These are configured to print the footnote text in the main body of the document
`\footnote`

and for the number to link to the text. This is based on suggestions by Eitan Gurari.

```

816 \:CheckOption{0.0}
817 \if:Option
818 \Configure{footnotetext}{}{}} % from latex section
819 \else
820 \:CheckOption{3.2}
821 \if:Option
822 %% \Configure{footnotetext} % from latex section I THINK THIS IS WRONG
823 %% {\HCode{<hr>}} {\HCode{<hr>}}
824 %% {\HCode{<sup>}} {\HCode{</sup>}}
825 \Configure{footnotetext}
826 {\HCode{<sup>}\FNmark\HCode{</sup>}}
827 {(footnote\ifx \FNmark\empty \else\space\fi \FNmark : }
828 {})}
829 \Configure{footnote}
830 {\def\PRNT{}}\HCode{<sup>}%
831 \Link{\arabic{footnote}}{\FNmark\EndLink
832 \HCode{</sup>}}
833 {\relax\space
834 \Link{}{\arabic{footnote}}\EndLink
835 (footnote \FNmark : }
836 {})}
837
838 \else
839 %% \Configure{footnotetext} % from latex section
840 %% {\HCode{<br \xml:empty><span class="footnotetext"><sup>}\FNmark
841 %% \HCode{</sup>}}
842 %% {}
843 %% {\HCode{</span>}}
844 %% \Css{span.footnotetext{ font-size:75\%; font-style:italic; } }
845 %%
846 %% \Configure{footnote} % from latex section
847 %% {\HPageButton[fn\FNnum]{\HCode{<sup>}\FNmark\HCode{</sup>}}}
848 %% {\BeginHPage[fn\FNnum]{ }}
849 %% {\EndHPage{}}

```

This is Eitan's suggested code.

```

850 \Configure{footnotetext}
851 {\Tg<sup>\FNmark\Tg</sup>}
852 {(footnote\ifx \FNmark\empty \else\space\fi \FNmark : }
853 {})}
854
855 \Configure{footnote}
856 {\def\PRNT{}}\Tg<sup>%
857 \Link{\arabic{footnote}}{\FNmark\EndLink
858 \Tg</sup>}
859 {\relax\space
860 \Link{}{\arabic{footnote}}\EndLink
861 (footnote \FNmark : }

```

```

862     {}
863 \fi
864 \fi
865

```

The following is a slight revision of the end of `article.4ht`.

```

866 \def\tableofcontents{%
867   \ifx\contentsname\empty \else
868     \clause*{\contentsname}%
869   \fi
870   \:tableofcontents}
871 \let\dx:begin\begin
872 \def\begin#1{\def\temp{#1}\def\tempa{theindex}\ifx \:temp\:tempa
873   \fibicl@use*{\indexname}\fi\dx:begin{#1}}
874

```

The end of the package

```

875 </usc>

```

3.3 Observations

There are three main aspects to developing TeX4ht code and configurations for a new class or package:

1. Finding out what hooks and configurations are already available.
2. Determining what additional hooks, and where they should be put, for the new package.
3. Configuring all the hooks.

TeX4ht has added many hooks to the L^AT_EX kernel and classes and packages based on kernel code inherit those hooks. I found it advisable to run a test document with new macros through TeX4ht to see what the result looked like. Depending on the particular macros it may be that the inherited hooks and configuration are sufficient and nothing needs to be done.

For this particular class a lot of new hooks were required, but mainly related to the new macros for sectioning. Configurations were obviously required for these, together with a few for new kinds of environments and lists.

There are other packages that, in their turn, are designed to work with the `iso` class and it turned out that they required few new hooks or changes to the existing configurations.

The rest of this section is concerned with item 2, namely adding hooks.

3.3.1 Colon is a letter

Within the TeX4ht ‘environment’, that is the `*.4ht` files, the colon character (`:`) acts as a letter in a similar manner as the at character (`@`) does in class and package files; `@` is also treated as a letter in the environment. Normally, something like

`\start:env{myenv}` would be treated as the command `\start` followed by the text `:env{myenv}`. In the `TeX4ht` environment it is the command `\start:env` with the argument `{myenv}`. If any commands like this occur in the preamble to a \LaTeX document, then they must be surrounded by `\makecolonletter` and `\restorecolon`, which may be defined as:¹

```
\chardef\oldcolon=\thecatcode'\:
\newcommand{\makecolonletter}{\catcode'\:11\relax}
\newcommand{\restorecolon}{\catcode'\:=\oldcolon\relax}
```

The fact that command names can include a colon means that you have to be careful in code that includes any colon characters. In \LaTeX , code like `{footnote \thefootnote:}` will print the footnote number immediately followed by a colon (e.g., `footnote 3:`). In the `TeX4ht` environment you are more likely to get an error message saying that `\thefootnote:` is undefined! Instead, this needs to be coded as `{footnote \thefootnote :}`, so that the `\thefootnote` command is ended by the space before the colon.

3.3.2 Adding code and hooks

A \LaTeX idiom for adding code at the start and/or end of an existing macro which takes no arguments called, say `\foo`, is:

```
\let\oldfoo\foo
\renewcommand{\foo}{new-start-code \oldfoo new-end-code}
```

Similarly for commands `\baz` and `\biz` which take one and two arguments respectively:

```
\let\oldbaz\baz
\renewcommand{\baz}[1]{new-start-code \oldbaz{#1} new-end-code}
\let\oldbiz\biz
\renewcommand{\biz}[2]{new-start-code \oldbiz{#1}{#2} new-end-code}
```

As these kinds of redefinitions are a common occurrence `tex4ht.sty` provides commands that encapsulate the above idiom. These are `\pend:def\foo{new-start-code}` and `\append:def\foo{new-end-code}` for when `\foo` is a macro without arguments, and there are similar commands for prepending and appending to macros with up to three arguments. Repeating and extending the \LaTeX example, in the `TeX4ht` environment it could be coded as:

```
\pend:def\foo{new-start-code}    % \foo has no arguments
\append:def\foo{new-end-code}
\pend:defI\baz{new-start-code}   % \baz has one argument
\append:defI\baz{new-end-code}
```

¹Note that a package may redefine the category code for the colon, which is why the old value is saved.


```

\pend:defII\biz{new-start-code} % \biz has two arguments
\append:defII\biz{new-end-code}
\pend:defIII\boz{new-start-code} % \boz has three arguments
\append:defIII\boz{new-end-code}

```

The definition of a hook in a macro called, say `\buz`, takes the form `\X:buz` where X is a single letter. For example, adding a configurable hook at the start and end of the macro `\baz` can be done like this:

```

\pend:defI\baz{\a:baz} % hook at start
\append:defI\baz{\b:baz} % hook at end
\NewConfigure{baz}{2} % declare \baz has two configurable hooks

```

Note that by default a `\NewConfigure{baz}{2}` command expects the hook corresponding to the first argument to be `\a:baz` and the hook corresponding to the second argument to be `\b:baz`. Extending the example, `\NewConfigure{foo}{9}` will expect the hook corresponding to the ninth argument to be `\i:foo` ('i' is the ninth letter of the alphabet). This default setting for `\NewConfigure` has been created via:

```

\Configure{NewConfigure}{a:}{b:}{c:}{d:}{e:}{f:}{g:}{h:}{i:}
in tex4ht.sty.

```

As an example for hook insertion, assume a macro defined like:

```

\newcommand{\mac}[1]{START #1 END}

```

in which there are four potential places for hooks (call them h1 to h4):

```

{h1 START h2 #1 h3 END h4}.

```

Hooks h1 and h4 can be added via `\pend:defI` and `\append:defI`, but these are not sufficient by themselves. Other methods are required for inserting all four hooks. Two of these are:

- Redefine the whole macro from scratch:

```

\renewcommand{\mac}[1]{\a:mac START \c:mac #1 \d:mac END \b:mac}
\NewConfigure{mac}{4}

```

- Reuse parts of the original macro (similar to the L^AT_EX ap/pre-pending idiom):

```

\let\oldmac\mac
\renewcommand{\mac}[1]{\a:mac\oldmac{\c:mac #1 \d:mac}\b:mac}
\NewConfigure{mac}{4}

```

Either of these examples can be configured via:

```

\Configure{mac}%
{first arg for a hook} % \a:mac at the start of the command
{second arg for a hook} % \b:mac at the end of the command
{third arg for a hook} % \c:mac immediately before the argument
{fourth arg for a hook} % \d:mac immediately after the argument

```

Note that the hooks do not have to be placed in the `\mac` command in alphabetical order.

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