How to make the LEDA HTML-Manual

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What you need:

- the LEDA sources (LEDA-xxx.tgz) (cf. `www.mpi-sb.mpg.de/LEDA/leda.html`)
- a working noweb-installation (cf. `www.cs.virginia.edu/~nr/noweb`)
- a working LaTeX-installation (cf. `www.dante.de`)
- a working latex2html-installation (version 98.1 or later)
  (cf. `cbl.leeds.ac.uk/nikos/tex2html/doc/latex2html/latex2html.html`)
- the Netscape browser (version 4.0 or later) (cf. `www.netscape.com`)

How you install the HTML-Manual tools:

- unpack the LEDA sources
- set environment variables (with `export` in sh/bash or `setenv` in csh/tcsh)
  - set LEDAROOT to your `leda-root-path`
  - include `$LEDAROOT/Manual/cmd` in your search path (`PATH` in sh/bash or `path` in csh/tcsh)
  - include `$LEDAROOT/Manual/tex` in your `TEXINPUTS`
- the LEDA HTML-Manual tools are included but not extracted in the distribution, so goto `$LEDAROOT/Manual/noweb` and type `make`, which will extract them in the directory `$LEDAROOT/Manual/cmd`

The most important tools are **HTMLman** and **Mkhtml**. The former tool enables you to create the manual page for a single datatype (and to test your installation), whereas the latter creates the whole LEDA HTML-Manual.

How you use the tools:

- In order to create the HTML-manpage for the LEDA datatype(s) in the headerfile *T.h* you have to type `HTMLman T`.
  (Note that you should omit the suffix ".h".)

- If you want to create the whole HTML-Manual in the current directory just type `Mkhtml` (this will take a few minutes ...).

How HTMLman (located in `$LEDAROOT/Manual/cmd`) works:

1. calls perl scripts which extract from the LEDA-headerfile *datatype.h* the corresponding tex-file and remove "dangerous macros"
2. latex (twice to get the references right)
3. latex2html (with several flags)
4. starts netscape (with the created html-file as URL)

How Mkhtml (located in `$LEDAROOT/Manual/cmd`) works:

1. Mklowlevel
   calls perl-scripts for each LEDA-headerfile which extract the corresponding tex-file and remove "dangerous macros"
2. Mktoplevel
   calls perl-scripts for each tex-file in `$LEDAROOT/Manual/MANUAL` and for each prog-file in `$LEDAROOT/Manual/MANUAL/prog` which remove "dangerous macros" and handle the references in the text
3. latex (twice to get the references right)
4. latex2html (with several flags)