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## **GBT Software Documentation using LATEX**

HTML version Available<sup>1</sup>

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Abstract

This document describes how to generate PDF and HTML versions of documentation from a single source file using  $\ensuremath{\texttt{L}TE}Xand \ensuremath{\texttt{L}TE}X2HTML$  .

<sup>&</sup>lt;sup>1</sup>http://www.gb.nrao.edu/GBT/MC/doc/general/gbt\_doc\_guide.html

#### 1 Purpose

This document is a guide for GBT authors of technical documents. It describes how to use LATEX and LATEX2HTML to:

- produce documents with a standardised GBT "look and feel"
- produce both PostScript/PDF and HTML versions of a document from one master LATEXfile

An extremely good *LaTeX2HTML Author's Guide* has been provided by Alan Bridle. This describes the advantages of using LATEXand LATEX2HTML, and how to provide well written, well formatted documentation using them.

This document describes the practical steps needed to apply these tools to GBT Software documentation.

#### 2 Creating a New Document

- Choose a directory for the document
- Copy the file /home/gbt1/doc/templates/template.tex to that directory, renaming it as appropriate (e.g. gbt\_doc\_guide.tex).
- Copy /home/gbt1/doc/templates/gbtdocs.sty to that directory. (*N.B. this step will not be required when I have installed the style file correctly under Solaris and Linux*).
- Copy /home/gbt1/doc/templates/.latex2html-init to that directory.
- edit the .tex file (in this case gbt\_doc\_guide.tex and fill in the header information correctly. (*N.B. currently you need to do this twice, once in the "latexonly" section, and once in the "htmlonly" section.*)
- Define any new latex commands you require
- Enter the text of your document

#### **3 Processing the Document**

N.B. If someone (Joe?) would like to write a make file, then we could just do:

\$ make document

wouldn't that be nice? In the meantime:

- run latex on the document, e.g.
  - \$ latex gbt\_doc\_guide

to produce a .dvi file, and generate the Table of Contents, Section References, and so on. Note that you may need to run this two or three times (especially on a new document) to correctly resolve all of the cross references. LATEX will warn you if this is necessary.

• run latex2html on the document to create the HTML version:

\$ latex2html gbt\_doc\_guide

Note that the html pages (one per section) will be placed in a subdirectory of the current directory with the same name as the .tex file, with the initial link file called index.html.

• run pdflatex on the document to create the PDF version:

```
$ pdflatex gbt_doc_guide
```

This will produce a file with a .pdf extension and the same name as the original .tex file.

• if you wish to create a postscript version of the document, run dvips.

```
$ dvips -o gbt_doc_guide.ps gbt_doc_guide
```