

Abstract

When you write a package for ConT_EXt there is a point when you need documentation of it to let users know how to use it. There are different ways how to write it, one of them is to include the documentation in the module itself.

To help the package author with this part ConT_EXt gives you the option to pretty print the module code and format the code explanation and examples for their usage with various markup commands.

In the following chapters you will learn how to produce a pdf from the source and which commands are available besides ConT_EXt's normal mechanisms.

Documenting T_EX and METAPOST files

When you write a new package you do normally start first with the T_EX code and add afterwards comments and other information to it. Before we continue how to add text to the code let's start with a short example.¹

```
\unprotect

\def\????fb{@@@fb} % Namespace: FancyBreak

\def\fancybreakparameter#1%
  {\csname\????fb#1\endcsname}

\def\setupfancybreak
  {\dodoubleargument\getparameters[\????fb]}

\def\fancybreak
  {\dowithnextboxcontent
   {\setupalign[\@@@fbalign]}
   {\blank[\@@@fb spacebefore]%
    \flushnextbox
    \blank[\@@@fb spaceafter]}
   \vbox}

\setupfancybreak
  [\c!spacebefore=,
   \c!spaceafter=\v!nowhite,
   \c!align=\v!middle]

\protect \endinput
```

¹ This is a simplified version of the `\fancybreak` macro which lacks many features but for demonstrations this version is better suited.

As you can see from the code above there is only a short comment to explain the meaning of the namespace. To start with the documentation we will first add meta information at the begin of the document which has always the following form:

```
%D    [      file=t-fancybreak,
%D      version=20xx.xx.xx,
%D      title=\CONTEXT\ User Module,
%D      subtitle=Fancybreak,
%D      author=Ben Lee User,
%D      date=\currentdate,
%D      copyright=Ben Lee User,
%D      email=ben.lee.user@tex.org,
%D      license=Public Domain]
```

The block contains information about the name of the file (without the file extension) and other information like the title and subtitle of the module and the name of the author. Not all information here are mandatory but you should always fill the following fields.

Field	Type	Default value
file	text	\jobname
title	text	—
subtitle	text	—
author	text	Hans Hagen
date	date	\currentdate

All of them are required because ConT_EXt use them when you produce a pdf of your document on the titlepage of the file. As text for the field `title` you can normally write “\CONTEXT\ User Module”. Other fields are possible and although ConT_EXt will ignore them it’s good style to include information about the license and contact information, so let’s extend our list with the following ones.

Field	Type
version	date
copyright	text
license	text
email	text

Documenting Lua files

Interface files

A interesting feature of ConT_EXt is to show a overview of a commands syntax with the possible parameters and keywords which can be either optional or mandatory.

The input for these diagrams use xml and is stored in a external file which has for a package the form <package>.xml.

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<cd:interface
  xmlns:cd="http://www.pragma-ade.com/commands"
  name="context" language="en" version="20xx.xx.xx">
```

```
</cd:interface>
```

```
<cd:command name="donothing" file="syst-aux.mkiv">
  <cd:sequence>
    <cd:string value="donothing"/>
  </cd:sequence>
</cd:command>
```

```
\showsetup{donothing}
```

```
\donothing
```

```
<cd:command name="text" type="environment" file="core-job.mkiv">
  <cd:sequence>
    <cd:string value="text"/>
  </cd:sequence>
</cd:command>
```

```
\showsetup{starttext}
```

```
\starttext ... \stoptext
```

```
<cd:command name="placelistoffloats" generated="yes" file="strc-flt.mkiv">
  <cd:sequence>
    <cd:string value="placelistof"/>
    <cd:variable value="floats"/>
  </cd:sequence>
</cd:command>
```

```
\showsetup{placelistoffloats*}
```

```
\placelistofFLOATS
```

```

<cd:command name="high" file="core-fnt.mkiv">
  <cd:sequence>
    <cd:string value="high"/>
  </cd:sequence>
  <cd:arguments>
    <cd:content n="1"/>
  </cd:arguments>
</cd:command>

```

\showsetup{high}

\high {...}

* CONTENT

cd:assignments	[.=.]	[...,.=.,...]
cd:keywords	[...]	[...,...]
cd:displaymath	\$\$\$...\$\$	\$\$\$...\$\$
cd:index	{...}	{..+...+..}
cd:math	\$...\$	\$...\$
cd:nothing	...	-
cd:file	~...~	-
cd:position	(...)	(...,...)
cd:reference	[...]	[...,...]
cd:csname	\...	-
cd:destination	[{..[ref]}]	[..,{..[ref]},..]
cd:triplet	[x:y:z=]	[x:y:z=,...]
cd:word	{...}	{... ... }
cd:content	{...}	{... ... }

cd:command	COMMAND
cd:dimension	DIMENSION
cd:file	FILE
cd:name	IDENTIFIER
cd:character	-
cd:mark	MARK
cd:number	NUMBER
cd:reference	REFERENCE
cd:plural	PLURAL NAME
cd:singular	SINGULAR NAME
cd:text	TEXT
cd:formula	FORMULA
cd:matrix	N*M
cd:list	LIST
cd:section	SECTION
cd:noargument	\...

cd:oneargument	\...#1
cd:twoarguments	\...#1#2
cd:threearguments	\...#1#2#3