Making BachoTEX Proceedings

Jean-Michel Hufflen

TUG 2024

20th July 2024

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January 2021 \longleftarrow I became the new editor of the French journal *Cahiers GUTenberg*.

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Fall 2020 ← deep reorganisation within the French-speaking group GUTenberg.

January 2021 \longleftarrow I became the new editor of the French journal *Cahiers GUTenberg*.

Spring $2022 \Leftarrow$ ten years after the previous issue (#57), a new one (#58) is distributed to all the members of GUTenberg.

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January 2021 \longleftarrow I became the new editor of the French journal *Cahiers GUTenberg*.

Spring 2022 \leftarrow ten years after the previous issue (#57), a new one (#58) is distributed to all the members of GUTenberg.

Tu put #58 into action, we developed some tools in order to automate the making of the whole issue, from separate articles. Some points shown at TUG 2022.

BachoTEX 2018, 2019, without proceedings.

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BachoTEX 2018, 2019, without proceedings. BachoTEX 2023 $\ \iff \ \ \,$ I proposed to make these proceedings into a 3-part volume.

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BachoTEX 2023 \longleftarrow I proposed to make these proceedings into a 3-part volume.

Planning some extensions, e.g., two tables of contents in Polish and English.

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BachoTFX 2018, 2019, without proceedings.

BachoTEX 2023 \longleftarrow I proposed to make these proceedings into a 3-part volume.

Planning some extensions, e.g., two tables of contents in Polish and English.

Expected for the summer's end.

Cahiers GUTenberg \iff a kind of legacy with some articles ready or close to be such.

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Cahiers GUTenberg \longleftarrow a kind of legacy with some articles ready or close to be such.

Compiling with pdfLTEX, X3LTEX, LuaLTEX...

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Compiling with pdfLTEX, X3LTEX, LuaLTEX...

 $BachoTeX \leftarrow ConTeXt$, too.

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Compiling with pdfleTeX, X3LeTeX, LualeTeX...

 $BachoT_EX \iff ConT_EXt$, too.

 $ConT_EXt$ group? \iff doing the whole of proceedings, but only from articles written using $ConT_EXt$.

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Compiling with pdflATEX, X3LATEX, LualATEX...

 $BachoT_EX \iff ConT_EXt$, too.

ConT_EXt group? ← doing the whole of proceedings, but only from articles written using ConT_EXt.

LC2 experience \leftarrow need *automated generation* of a whole issue's parts.

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Compiling with pdfleTEX, X3LeTEX, LualeTEX...

 $BachoTeX \leftarrow ConTeXt$, too.

ConT_EXt group? ← doing the whole of proceedings, but only from articles written using ConT_EXt.

LC2 experience \leftarrow need *automated generation* of a whole issue's parts.

Check programs, e.g., page number succession.

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Cahiers GUTenberg \iff a kind of legacy with some articles ready or close to be such.

Compiling with pdflATFX, X3LATFX, LualATFX...

 $BachoT_FX \iff ConT_FXt$, too.

ConTFXt group? ← doing the whole of proceedings, but only from articles written using ConTFXt.

LC2 experience ← need automated generation of a whole issue's parts.

Check programs, e.g., page number succession.

Avoiding information redundancy. For example, tables of contents should be generated automatically.

How?

Assembling PDF files? \Longrightarrow pdfpages package.

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How?

Assembling PDF files? \Longrightarrow pdfpages package.

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How?

 $\begin{tabular}{ll} target: dependency_1 & dependency_2 & \dots \\ & command & \\ \end{tabular}$

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Extracting the title, the author(s), and the first page number.

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Extracting the title, the author(s), and the first page number. Last page number \Leftarrow lastpage package.

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Extracting the title, the author(s), and the first page number. Last page number \longleftarrow lastpage package. Getting the other informations with (IA)TEX?

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Scheme programming language.

Extracting the title, the author(s), and the first page number. Last page number \Leftarrow lastpage package. Getting the other informations with (A)TEX? Possible theoretically, but better: using a TEX-parser written in the

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Extracting the title, the author(s), and the first page number. Last page number \leftarrow lastpage package.

Getting the other informations with (LA)TEX? Possible theoretically, but better: using a TEX-parser written in the Scheme programming language.

(g-retain-command "title" 2

#t; The first argument is optional.

#t ; Top level only.

#t ; Recursively.

#t ; Within the preamble only.

1 ; Only one occurrence, then give up.

(lambda (ignored-s title-s) ...))

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Title in English $\,$ for the table of contents in English $\,$.

Title in English (resp. Polish) for the table of contents in English (resp. Polish).

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```
Title in English (resp. Polish) for the table of contents in English (resp. Polish).
```

\hbsettitleinenglish{Making an Issue of \cgut}
\hbsettitleinpolish{Skład biuletynu \cgut}

```
\title{\hbgettitleinenglish\thanks{Title in Polish:
  \foreignlanguage{polish}{\emph{\hbgettitleinpolish}}.}
```

%%%--1

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```
Title in English (resp. Polish) for the table of contents in English (resp. Polish).

%%%--smlbibtex-plus--[
\newcommand{\cgut}{%
```

\foreignlanguage{french}{\emph{Cahiers GUTenberg}}}

```
\hbsettitleinenglish{Making an Issue of \cgut}\hbsettitleinpolish{Skład biuletynu \cgut}
```

```
\title{\hbgettitleinenglish\thanks{Title in Polish:
  \foreignlanguage{polish}{\emph{\hbgettitleinpolish}}.}
```

Generating variants

E.g., printed or animated versions \Longrightarrow additional option.

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E.g., printed or animated versions \Longrightarrow additional option. Generating a new source file by means of *regular expressions* \Longleftarrow Ruby.

How to proceed?

Write a master file.

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How to proceed?

Write a master file.

\cgincludearticleplus{pdflatex}{edito-h}{edito-h}

\cgincludearticleplus{pdflatex}{knuth-eg}{knuth-eg}

\cgincludearticleplus{%
 pdflatex}{flynn-bideault}{flynn-bideault}

\cgincludearticleplus{xelatex}{poulain}{poulain-plus}

\cgincludearticleplus[%
animated]{lualatex}{chupin}{chupin-plus}

\cgincludearticleplus{%
xelatex}{accidentals-french}{accidentals-french}

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Next stages

Skeleton file \Longrightarrow Makefile (basic).

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Skeleton file \Longrightarrow Makefile (basic). +include deps Making BachoTEX Proceedings

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Next stages

Skeleton file \Longrightarrow Makefile (basic).

+include deps Build the deps file:

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Skeleton file \Longrightarrow Makefile (basic).

+include deps

Build the deps file:

Generate separate articles.

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Skeleton file \Longrightarrow Makefile (basic).

+include deps

Build the deps file:

Generate separate articles.

Checking the successive page number ranges and build the table(s) of contents.

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Skeleton file \Longrightarrow Makefile (basic).

+include deps

Build the deps file:

Generate separate articles.

Checking the successive page number ranges and build the table(s) of contents.

Compile the master file (you can use a suitable target).

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Skeleton file \Longrightarrow Makefile (basic).

+include deps

Build the deps file:

Generate separate articles.

Checking the successive page number ranges and build the table(s) of contents.

Compile the master file (you can use a suitable *target*).

On request, generate the variants.

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Skeleton file \Longrightarrow Makefile (basic).

+include deps

Build the deps file:

Generate separate articles.

Checking the successive page number ranges and build the table(s) of contents.

Compile the master file (you can use a suitable target).

On request, generate the variants.

Cleaning useless files ← make clean.

Miscellaneous

more-abstracts package \iff several abstracts can be given.

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Miscellaneous

more-abstracts package \iff several abstracts can be given. antispam package:

 $tug2024@tug.org \implies tug2024$ (at) tug (dot) org

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Putting/checking commands for titles.

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Putting/checking commands for titles. Specifying the starting page number.

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Putting/checking commands for titles. Specifying the starting page number. Checking/adapting abstract(s).

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Putting/checking commands for titles. Specifying the starting page number. Checking/adapting abstract(s). Other points related to compiling.

New module: tugboat-hbachotex, in preparation.

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New module: tugboat-hbachotex, in preparation. Using the \author depend on classes.

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New module: tugboat-hbachotex, in preparation. Using the \author depend on classes.

Dealing with possibly multilingual aspects: babel/polyglossia/other packages ad hoc.

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New module: tugboat-hbachotex, in preparation.
Using the \author depend on classes.
Dealing with possibly multilingual aspects:
babel/polyglossia/other packages ad hoc.
Using a way to determine the last page number \infty the lastpage package

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Good — less good

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Dependencies among files: OK, but currently only at the top level

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Dependencies among files: OK, but currently only at the top level (not for included files, in particular *graphic* files).

Good — less good

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Dependencies among files: OK, but currently only at the top level (not for included files, in particular *graphic* files).

Future

Before fall \longleftarrow Cahiers GUTenberg #59 and BachoTEX proceedings.

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My system is:

open some typesetting systems can coexist, some languages, too;

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My system is:

open some typesetting systems can coexist, some languages, too;

limited some operations require some experience in programming, some basic knowledge in Scheme;

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My system is:

open some typesetting systems can coexist, some languages, too;

limited some operations require some experience in programming, some basic knowledge in Scheme;

but I am ready to:

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My system is:

open some typesetting systems can coexist, some languages, too;

limited some operations require some experience in programming, some basic knowledge in Scheme;

but I am ready to:

perform demonstrations for interested people;

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My system is:

open some typesetting systems can coexist, some languages, too;

limited some operations require some experience in programming, some basic knowledge in Scheme;

but I am ready to:

- perform demonstrations for interested people;
- ▶ help end-users if need be.