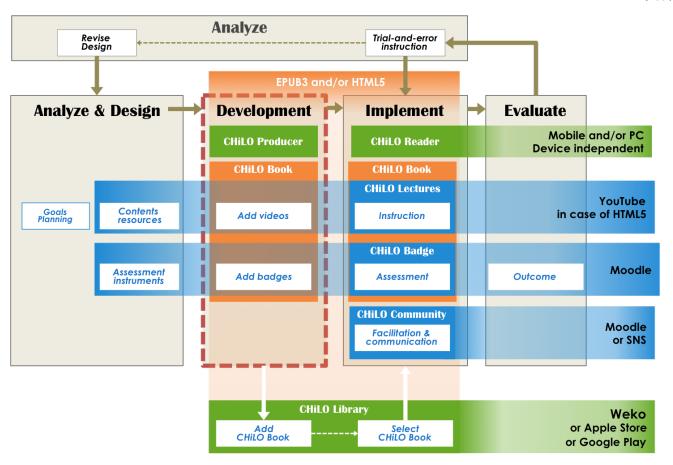
Development - How to Create CHiLO Book-

(⇒日本語)



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Demonstration video: How to create CHiLO Book

1. Add badges

You can assess the status of the learning outcomes of CHiLO Books from the Moodle digital badges.

The badge issued for each CHiLO Book is called a "small badge", and the badge issued after earning all the badges of the series or badges of specified CHiLO Books is called a "big badge".

1) Decide the way of assessment.

Moodle badges will be issued when the activity module is completed, which means; achieving passing scores in the Quiz activity module, handing in reports in the Assignment activity module, or posting messages in the Forum activity module. To activate the activity module, there is a need to set the Completion tracking to "ON" on each activity module. But first of all, decide the activity module that best fits the CHiLO Book you are creating.



learn more... https://docs.moodle.org/23/en/Activity_completion_settings

2) Add activity module

After deciding the activity module, create a course in Moodle, then add the activity module. You can specify the conditions for issuing the badge by adding multiple activity modules but it is only valid for one CHiLO Book for one Moodle course is equivalent to one CHiLO Book.

3) Setting of badge issuing

The small badge is equivalent to the course badge issued in Moodle. As for the big badge, equivalent to the site badge of Moodle.

To learn more about Moodle course badge, and site badge, click the following URL:



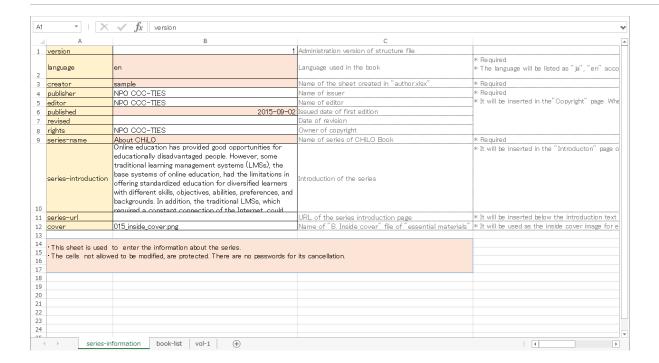
learn more... https://docs.moodle.org/29/en/Using_badges#Adding_a_course_badge

4) Save the URL of the created activity module

There is a need to enter the URL of the created activity module on to the CHiLO Producer Spreadsheet which is to be explained later on, so save the URL of the view page of the activity module.



View page URL is the URL which includes "view.php" as in [http://xxx.xxx.xx/mod/xxx/view.php?id=xxxxx].



2. Create CHiLO Books

CHiLO Book can be created using CHiLO producer. CHiLO Producer is open source software and a java command line application for producing CHiLO Books.

CHiLO Producer Operating environment



- Environment for Java 8 to operate
- Environment to edit xlsx files (Recommended : Microsoft Office operation check : LibreOffice)

Download CHiLO Producer from GitHub



https://github.com/cccties/CHiLO-Producer

chilo-producer-master folder

Unzip CHiLO Producer downloaded from GitHub and you will find the following folders under the "chilo-producer-master" folder.

```
chilo-producer-master
    run.bat / run.sh * Script to output CHiLO Book (for Windows / Unix-like OS)
             * Source file of the script
  |- page_templates * Template folder defining the page design
                              * Template for EPUB3 CHiLO Book
         templates_epub
         \vdash templates_web * Template for web CHiLO Book
         Lemplates_epub_google * Template for EPUB3 for Google play CHiLO Book
(abbr.)
    chiloPro
         template-series english *Template of the series foloder: copy this folder to create (English)
                 structure-books.xlsx * Structure file of CHiLO Book
                         *Folder to save the learning resources to be embedded in CHiLO Book
                                              : copy according to the number of CHiLO Books to be created in the series.
                         - images
                         - scripts
                         - text
                        <sup>∟</sup> videos
                 common * Folder used in common for the CHiLO Book created within the series folder
                       - images
                        -scripts
                                     * Style sheet of the EPUB3 CHiLO Book
                        - styles
                        text
                         videos
                         web-styles * Style sheet of the Web CHiLO Book
                     * Folder used in common for all the CHiLO Books created within the chiloPro folder
         common
                 authors.xlsx
                                  * Spreadsheet to enter information of the "About the Author" page
                authorImages * Folder to store the image of the author
                                 * Images used in common
                ⊢ images
                 scripts
                                 * scripts used in common
                                    * Sample of CHiLO Book series
        sample-series /_english
       ^{ot} template-series /_english \,\,\,\,\,\,\,\,\,\, Template of the series folder: copy this folder to create
```

2-1. Creating work folder

1) Creating "chilo-producer-master/chiloPro/name of your folder"

Copy "chilo-producer-master/chiloPro/template-series_english" to "chilo-producer-master/chiloPro/" with the name of your folder.

This folder is the work folder for creating CHiLO Books.

2) Create vol-x folder

- i. Copy "vol-n" folder in the "chilo-producer-master/chiloPro/name of your folder", according to the number of CHiLO Books in the series.
- ii. Change a name of "vol-n" folders you copied to vol-1,vol-2,vol-3 · · · .

2-2. Save and/or upload CHiLO Lecture

1) Save CHiLO Lectures

Save the CHiLO Lectures, explanation texts and figures created in the Design step to each videos, texts, and images folder of each CHiLO Book work folder; vol-1, vol-2, vol-3,

Also, prepare thumbnails for CHiLO Lectures and save them in the images folder of each CHiLO Book.

Resource	Details	Location to save the learning resources	Example
A. CHiLO Lecture (video) [required]	Video of the CHiLO Lecture. The recommended length of the video is 1-2 minutes. Compress as much as possible in order to embed in EPUB3 format CHiLO Book. Frame rate: 29.97 Bit rate: 384kbps Size: 480x360(4:3) or 560x316(16:9)	chilo-producer-master/chiloPro/name of your folder/vo l-x/videos/ *	
B. Video thumbnail [required]	Thumbnail of the video. Same size as the video JPEG format (recommended)	chilo-producer-master/chiloPro/name of your folder/vo l-x/images/ *	
C. Explanation text [required]	Text displayed below the explanation video. Prepared in extension(.xhtml)text file.	chilo-producer-master/chiloPro/name of your folder/vo l-x/text/ *	
D. Figure [optional]	Embed figures to explain text such as diagrams, charts, graphs and illustration. Recommended resolution: 1024	chilo-producer-master/chiloPro/name of your folder/vo l-x/images/ *	

^{*} vol-x : x indicates the volume of the CHiLO Book.

2) Upload CHiLO Lecture

i. Web version CHiLO Book are delivered by the video-sharing website such as YouTube.

ii. Also, it is essential to enter video-id of each video you uploaded to the CHiLO Producer Spreadsheet, so you have to keep records of the uploaded video.



https://www.youtube.com/watch?t=5&v=YrAdO44ezh8 → "YrAdO44ezh8" is the video-id for YouTube.

2-3. Save the cover image

Save the image file of the book cover and the section cover (inside cover).

Learning Resources

Resource	Details	Location to save the learning resources	Example
E. Image of book cover [required]	Cover image of the Book Resolution:768x1024 JPEG format(Recommended)	chilo-producer-master/chiloPro/name of your folder/vol-x /images/ *	
F. Image of section cover [required]	Image for display on the inside cover of the section throughout the series. Resolution: 1024x600 JPEG format(Recommended)	chilo-producer-master/chiloPro/name of your folder/comm on/images/	

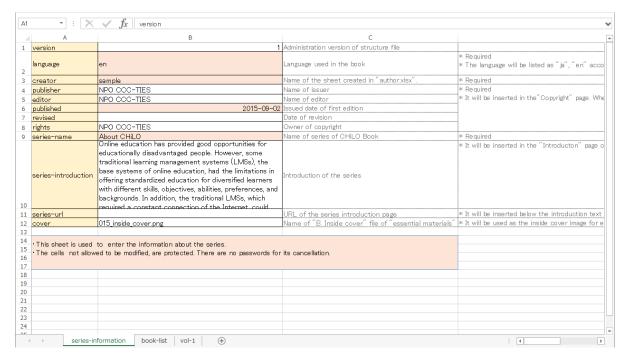
^{*} vol-x: x indicates the volume of the CHiLO Book.

2-4. Create structure-books.xlsx

Enter CHiLO Book structure to chilo-producer-master/chiloPro/name of your folder/structure-books.xlsx

1) "series information" sheet

Configure the information concerning the series.



Main settings

language: Language tag such as "ja", "en" defined by RFC 5646

creator: Name of the sheet created in the "author.xlsx" which is to be explained later.

published: Issued date of first edition

rights: Owner of copyright

series-name: Name of series of CHiLO Book

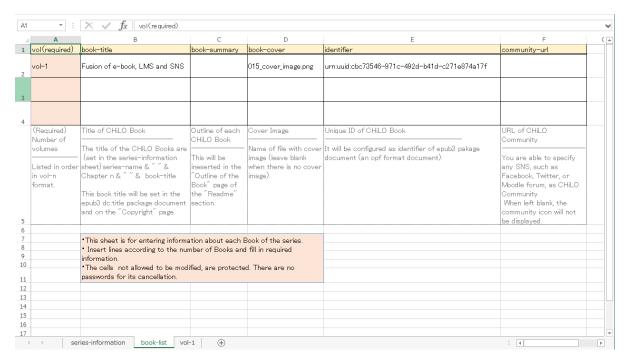
series-introduction: Introduction of the series

series-url: URL of the site introducing the series, if any.

cover: Name of "F. Image of section cover" file. Not the book cover of CHiLO Book.

2) "Book-list" sheet

List of CHiLO Books included in the series



Main settings

vol: Number CHiLO Books in the series; vol-1, vol-2, vol-3 and so on, in order.

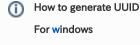
book-title: Title of CHiLO Book

book-summary: Outline of CHiLO Book

cover: Name of "E. Image of book cover" file. The file name of the cover image of CHiLO Book

identifier: For uniquely identifying CHiLO Book, enter "urn:uuid:" + UUID (Universally Unique Identifier)

e.g. urn:uuid:a7c4eab7-1540-47bd-9302-7fda5df5c54e



- 1. Boot up UUID Generator: GUIDEGEN (Microsoft)
- 2. Select "4. Guid Format"
- 3. Click [Copy] and copy uuid to clipboard

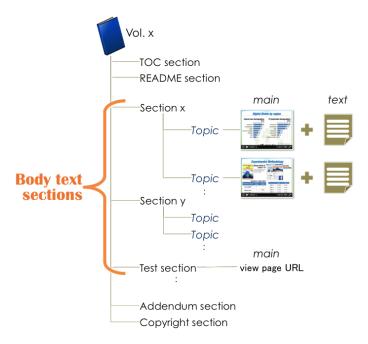
For Unix-like OS

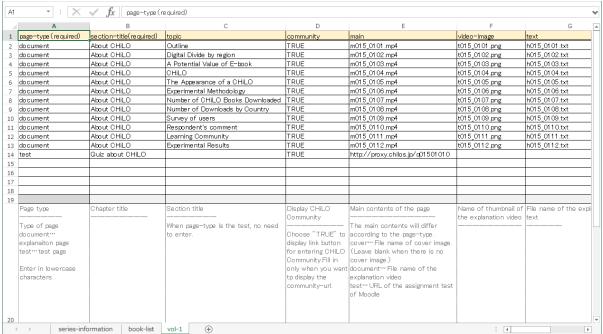
Run the following command utilizing command prompt.

> uuidgen

3) "vol-x" sheet

- i. Copy the vol-n sheet according to the number of CHiLO Books in the series and alter the sheet name to vol-1, vol-2...
- ii. Enter information of the pages to be created in the Body text-section of the CHiLO Book using one row per page from the top.





Main settings

page-type: Select "document" for embedding CHiLO Lectures. Select "test" for assessment of learning outcomes using Moodle activity module.

section-title: Enter the section name of the page.

page-title: The page title is the topic of the CHiLO Lecture.

community: Currently not in use.

main: When the page type "document" is selected, enter the video file name of the CHiLO Lecture.

When the page type "test" is selected, enter the URL of the view page of the Moodle activity module.

text : Enter the file name of the explanation text corresponding to the CHiLO Lecture.

video-id: Enter when creating web version CHiLO Book. Enter ID of the video uploaded on the video-sharing website.

2-5. Author information

Configure information which displays on the "About the Author" page of Addendum section. The information configured here will be referred to by all the CHiLO Books created under the chiloPro folder.

1)Save image of the author

Learning Resources

Resource	Details	Location to save the learning resources	Example
E. Image of the author [optional]	The image will be displayed on the "About the Author" page. Resolution: 159x159 JPEG format (Recommended)	chilo-producer-master/chiloPro/common /authorImages/	Section And the second section and the section and the second section and the second section and the section and the second section and the section and the second section and the section and the second section and the second section and the section and the second section and the section and the second section and the second section and the section and the second section and the sectio

^{*} vol-x: x indicates the volume of CHiLO Book.

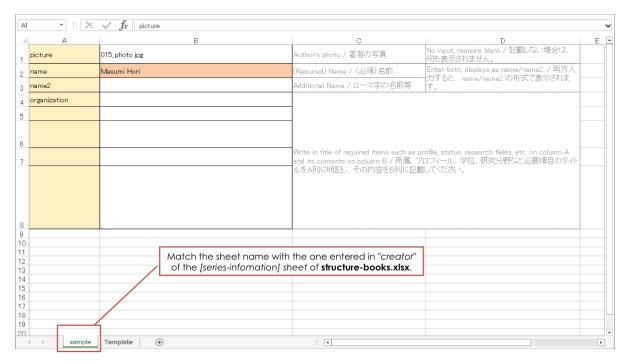
2) Create author.xlsx

i. Copy "series-infomation" sheet of chilo-producer-master/chiloPro/common/author.xlsx and name the sheet with an easy-to-recognize name.



Match the sheet name with the one entered in "creator" of the [series-infomation] sheet of structure-books.xlsx.

ii. Enter author information.



2-6. Output CHiLO Book

CHILO Producer can output two types of CHILO Books: EPUB3 format EPUB3 CHILO Book and HTML5 format Web CHILO Book.

Run the following Java command utilizing command prompt.

CHiLO Book is output to chilo-producer-master/OutputBase/name of your folder/

```
*** To output EPUB CHiLO Book ****

> run.bat -c <name of your folder> -t epub (Windows)

> sh run.sh -c <name of your folder> -t epub (Unix-like OS)

*** To output Web CHiLO Book ****

> run.bat -c <name of your folder> -t web (Windows)

> sh run.sh -c <name of your folder> -t web (Unix-like OS)
```

command line option: -t type of CHiLO Book



Once you run a command, the former CHiLO Book will be overwritten, so save it if necessary.

If you failed to output CHiLO Book, refer to Common errors.

3. Check the output CHiLO Book

► EPUB3 CHILO Book

The output EPUB3 CHiLO Book can be found in chilo-producer-master/OutputBase/name of your folder/epub3.

The contents of the output EPUB3 CHiLO Book may be confirmed using the following ebook reader.

- For Mac OS: iBooks
- For Windows, Linux: Radium

► Web CHiLO Book

The output Web CHiLO Book can be found in chilo-producer-master/OutputBase/name of your folder/html

vol-x/nav.html is the contents page of the web CHiLO Book. Confirm using the Web browser.

You will not be able to check web CHiLO Book in local environment in the following cases:

- When explanation videos are videos uploaded to YouTube
- When there is an input in fb-app-id of [series-information] sheet of chiloPro/SeriesName/structure-books.xlsx

In these cases, check by uploading Web CHiLO Book files to the remote server or run the web server in local environment.