

The Leeds BookML guide

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Abstract

A self-contained guide to BookML as used at the University of Leeds: how to convert (virtually any) \LaTeX file to zip and SCORM packages with both HTML and PDF versions of all files.

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1 Installation

1.1 Prerequisites

Full list of prerequisites

- L^AT_EX_{ML} (minimum 0.8.5, recommended 0.8.6 or later)
- Any image handling: the Perl module `Image::Magick`
- Support for EPS, PDF images: Ghostscript
- BookML images: Ghostscript, `latexmk`, `preview.sty`, `dvisvgm` (minimum 1.6, recommended 2.7 or later)
- Automatic PDF, HTML, and zip creation: GNU Make, `latexmk`, `zip`, optionally `texfot`

The packages `latexmk`, `preview.sty`, `dvisvgm` and `texfot` are distributed by MiK_TE_X, T_EX Live, and virtually all Linux distributions.

For the rest of the software, follow the instructions below.

macOS (MacPorts)

- Open the Terminal app.
- Run `xcode-select --install` to get the Command Line Developer Tools.
- Install MacPorts as per [its official instructions from point 2](#) (no need for full Xcode!).
- If you use MacT_EX, run:

```
sudo port install LaTeXML +mactex
```

Otherwise

```
sudo port install LaTeXML
```

- If you use MacPorts for L^AT_EX, you can add the optional packages via:

```
# for automatic PDF, html, zip creation
sudo port install dvisvgm latexmk
# for BookML images (preview.sty)
sudo port install texlive-latex-extra
# for texfot (to reduce latex output during PDF creation)
sudo port install texlive-bin-extra
```

- To upgrade:

```
sudo port selfupdate
sudo port upgrade outdated
```

- The remaining packages (e.g. GNU Make) are already available.

macOS (Homebrew)

The Homebrew version has some packaging issues around ImageMagick and I **strongly recommend** you use MacPorts, but if you really want to, run

```
brew install latexml
```

Functionality related to images will likely be broken.

Linux Debian-based (Ubuntu, Debian, Mint, etc)

Download the package for the **future** Ubuntu releases at <https://launchpad.net/ubuntu/+source/latexml>. At the time of writing, this is `latexml_0.8.7-1_all.deb`. Install `ghostscript`, `make`, `latexmk`, `dvisvgm`, `preview-latex-style`, `texlive-extra-utils` (for `texfot`), `zip`, according to your needs.

```
sudo dpkg -i latexml_0.8.7-1_all.deb
sudo apt -f install
sudo apt install ghostscript make latexmk dvisvgm preview-latex-style texlive-e-
```

Linux RPM-based (Red Hat, CentOS, AlmaLinux, etc)

Not figured out yet!

Linux School PC (presumably only desktop connected via cable)

Run the following each time you open a new terminal:

```
module load latexml
module load texlive
```

If it does not work, run the following command and try again:

```
module use /apps/linsw1/modulefiles/7/
```

Everything else should already be available.

Windows (AppsAnywhere — easiest, now works offline too)

By far the easiest method. It also work in the Windows Virtual Desktop (very slowly!).

- Make sure to have **AppsAnywhere** installed.
- Install Ghostscript, ImageMagick, MiKTeX, StrawberryPerl.
- Open StrawberryPerl and run:

Windows (AppsAnywhere — easiest, now works offline too) (cont)

```
cpanm --verbose Image::Magick
cpanm --notest --verbose LaTeXML
```

Everything else should then be available. Re-do all of the above to update. You may have to reinstall the apps every one or two months (open the CloudPaging Player to check their status).

Note: if you installed the above apps before 21st December 2022, you have to remove them from Cloudpaging Player and install them again to have them work without an internet connection.

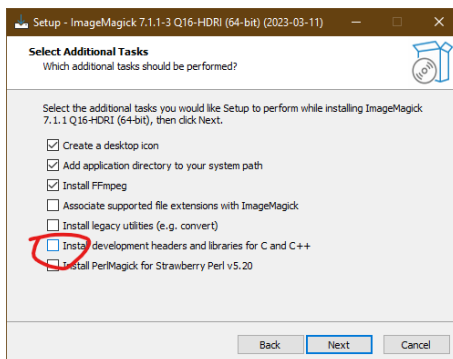
Note: if Image::Magick fails complaining about needing a C++ compiler, run

```
cpanm Image::Magick --build-args 'CC=g++' --verbose
```

Windows (with admin rights)

For University laptops: you can gain admin rights by right-clicking an the installer and choosing “Request Run as Administrator”.

- Install **StrawberryPerl** 64bit version.
- Install **ImageMagick** x64-d11. During installation, enable ‘Install development headers and libraries for C and C++’:



Be very careful **not** to choose 32bit, portable, or static variants.

- Install **Ghostscript** 64bit.
- In StrawberryPerl, run

```
cpanm --verbose Image::Magick
cpanm --notest --verbose LaTeXML
```

Everything else should then be available. Re-do all of the above to update.

Note: if Image::Magick fails complaining about needing a C++ compiler, run

Windows (with admin rights) (cont)

```
cpanm Image::Magick --build-args 'CC=g++' --verbose
```

Windows (without admin rights)

Install the [Scoop package manager](#) (no admin required). Then run:

```
scoop install perl
scoop install imagemagick
scoop install ghostscript
cpanm --verbose Image::Magick
cpanm --notest --verbose LaTeXML
```

Everything else should then be available. Use `scoop update --all` to update.

Note: if `Image::Magick` fails complaining about needing a C++ compiler, run

```
cpanm Image::Magick --build-args 'CC=g++' --verbose
```

1.2 BookML

Unzip the [template.zip](#) file from the [latest BookML release](#). Open a terminal in the directory containing `Makefile`, `template.tex`, and run

```
make detect
```

...or `gmake detect` on Windows.

How do I run commands in the terminal?

You simply type them and press <ENTER>. To open the terminal in a specific folder:

Windows

Install the [Windows Terminal](#). The easiest way is from the [Microsoft Store](#). If the Store is blocked, you can use

```
winget install --id Microsoft.WindowsTerminal -e
```

You will then be able to right-click on the folder and select “Open in Windows Terminal”.

How do I run commands in the terminal? (cont)**macOS**

Right-click on a folder and select “New Terminal at Folder”.

Linux

Many file browsers have an option “Open in Terminal” when you right-click on a folder.

Use `gmake detect` on Windows. You should get something like the following:

```
Main files: template.tex
BookML: v0.4.3 OK
GNU Make: 4.4.1 OK
TeX: MiKTeX 24.1 OK
perl: v5.38.0 OK (optional)
LaTeXML: 0.8.7 OK
Image::Magick: 7.1.1 OK (required for any image handling)
Ghostscript: 10.02.1 OK (required for EPS, PDF, BookML images)
dvisvgm: 3.1.1 OK (required for SVG, BookML images)
dvisvgm/libgs: 9.25 OK (required for SVG, BookML images)
latexmk: 4.82a OK
texfot: 1.48 OK (optional)
preview.sty: 13.3 OK (required for BookML images)
zip: 3.1b OK
```

Anything missing will show a red **NOT FOUND**. If the version is too old, there will be a red or a yellow prompt to upgrade.

First try? Run `make` (or `gmake` on Windows). After a bit, you will find a folder `template` and two zip files `template.zip`, `SCORM.template.zip`. Please open `template/index.html` and verify that it looks as you would expect. The zip files are set up for upload on Minerva.

To update BookML, simply replace the `bookml` folder with the content of a newly downloaded `bookml.zip`.

2 Converting your files

2.1 How to convert

Once you are satisfied that the template is working, drop your own files next to `template.tex`: each file containing `\documentclass` will be treated the same as `template.tex`, and will be compiled to PDFs, SCORM and zip packages. Run `make detect` again, and check that ‘Main files’ contains such new files.

There is now a reasonable chance that your files are already working (unless you are using `TikZ`, which needs some care), but before your first try, you should truncate your files with an early `\end{document}`,

as compilation times can be long and most errors will originate in the preamble anyway.

To compile, do the following:

- Run

```
make
```

On Windows, it is `gmake` rather than `make`.

After a bit, you will have files named like `lecturenotes.zip`, `SCORM.lecturenotes.zip`. The former works with 'Upload Zip package'; the latter with 'Create SCORM package'.

To generate one particular package, for instance the one for the file `lecturenotes.tex`, run

```
make lecturenotes.zip
```

or, if you are using SCORM packages,

```
make SCORM.lecturenotes.zip
```

- When you change a file and want to regenerate the zip files, just run `make` again. Only the files that need updating will be recompiled.
- You may occasionally get errors like

```
No rule to make target 'bookml-short-guide.toc', needed by 'auxdir/bookml-sho
```

If that happens, run `make` a second time. If the error is still there, run `make clean-aux`, or delete the `auxdir` folder, to reset BookML.

What is `make` doing? Step-by-step look under the hood

Each time you call `make`, it does the following.

0. Read the file `Makefile` in the folder you are in. That file will import instructions from the `bookml` folder about what to do next.
1. Check all `.tex` files in the folder and find the ones containing `\documentclass`.
In `example.zip`, it finds `main.tex` and `secondfile.tex`.
2. Arrange to generate two 'targets', a zip package and a SCORM package, for every such file in step 1.
In the example, the targets are `main.zip`, `SCORM.main.zip`, `secondfile.zip`, `SCORM.secondfile.zip`.
3. Check if the targets of step 2 exist, and if so, if any of their 'prerequisites' are newer, in which case the targets must be updated. The prerequisites themselves are checked recursively to see if they also need to be updated. The prerequisite chain looks like '`zip => html => xml => pdf => tex`'.

In the example, on your first try, `Make` will follow the following prerequisite chain: `main.zip => main/index.html => main.xml => main.pdf => main.tex`. It will then build the prerequisites backwards until all is in place to create `main.zip`. Likewise for the other targets.

What is make doing? Step-by-step look under the hood (cont)

4. Build the PDF of each \LaTeX file found in step 1, using `latexmk` to run `pdflatex`, `makeindex`, `bibtex` and similar as many times as necessary; record which files are `\input`'d and mark them as prerequisites for step 3.

In the example, it builds `main.pdf`, `secondfile.pdf`, and marks `chapter1.tex` as prerequisite of `main.pdf`. Any update to `chapter1.tex` will cause `main.pdf` to be updated next time you call `make`.

5. Call \LaTeX ML to build an XML file from each file in step 1.

In the example, `main.xml`, `secondfile.xml`.

6. Try to build or update the alternative formats requested using `\bmlAltFormat`. For now, BookML only knows how to build PDF files from \LaTeX files that have the same name; if you need other formats, you need to build them yourself, or add the relevant instructions (called 'recipes') in the `Makefile`.

In the example, `main-sans.pdf` and `main-sans-large.pdf` are the alternative formats requested in the preamble of `main.tex`, on top of `main.pdf` which has been built already. Since the example contains `main-sans.tex`, `main-sans-large.tex`, BookML will know what to do, and generate the alternative PDFs by repeating step 4.

7. Convert the XML files to HTML, using `latexmlpost`.

Thus generate the folders `main`, `secondfile`, each containing an `index.html`.

8. Zip the folder and pack the SCORM package (the latter requiring a couple more steps I will not explain), using `zip`

At last, you will get `main.zip`, `SCORM.main.zip`, `secondfile.zip`, `SCORM.secondfile.zip`.

2.2 Necessary adjustments

Consult `template.tex` for the minimal requirements in the preamble (e.g. you **must** provide a `\title` command). You should create copies of `template-sans.tex`, `template-sans-large.tex` for each of your main files, at least as a baseline. Alternative versions can be customized and removed, as explained in the next subsection. We recommend offering some alternative versions as good practice. You should also follow the key requirements below.

- Use the `babel` package to set the document language (crucial for screen readers to work correctly). For instance:

```
\usepackage[british]{babel}
```

- Set the document metadata in the preamble (essential for proper navigation links, web page titles, SCORM package metadata, and so on).

```
\title{LaTeXML + BookML guide}
\author{Vincenzo Mantova}
```


- Ensure all T_EX style formatting commands (`\Large`, `\bf`, ...) are enclosed between braces, and use L^AT_EX alternatives such as `\textbf{}` when possible. If you see the wrong font in the HTML output, it is likely caused by T_EX-style font switches that haven't gone well.

```
{\bf some bold text}      % DO
\bf some bold text        % DON'T
\textbf{some bold text}   % BEST
```

- Using TikZ or X_y-pic and an old version of L^AT_EX_ML (before 0.8.7)? Follow the instruction below right away. Without it, L^AT_EX_ML will take several minutes longer (regardless of the size of the file) and often produce broken images. Since version 0.8.7, L^AT_EX_ML has become more capable, and 0.8.8 can produce excellent TikZ pictures as well as tikzcd diagrams.

2.3 Alternative formats

To create an alternative PDF meant to be included in the same SCORM or zip package (such as a large print PDF), for instance for the `lecturenotes.zip` package, add the following to the preamble of `lecturenotes.tex`:

```
\usepackage{bookml/bookml} % if not already in your preamble
\bm1AltFormat{lecturenotes.LARGE.pdf}{PDF (large print)}
```

and create a corresponding `lecturenotes.LARGE.tex` that

- does **NOT** contain `\documentclass` (or it will be compiled into its own SCORM and zip packages);
- configures e.g. different fonts and margins, then call `\input{lecturenotes.tex}`.

BookML will automatically compile and include `lecturenotes.LARGE.pdf` in your final outputs.

Consult `template.tex`, `template-sans.tex`, `template-sans-large.tex` for some simple techniques to achieve this.

If you instead want **distinct** SCORM and zip packages, for instance compile a problem sheet both with and without solutions, explore [example.zip](#) to see some possibilities.

2.4 Other adjustments

Once you have language and metadata in place, follow the advice below to improve the chances your file will compile correctly, **especially if you use TikZ or X_y**.

Many or complex TikZ pictures

BookML has a facility to generate the images via L^AT_EX, and bypassing L^AT_EX_ML's slow support for TikZ altogether.

Ensure that **all of the** TikZ code is either in the preamble or between `\begin{tikzpicture}` and `\end{tikzpicture}`. Then add the following to the preamble, after the `bookml` package:

Many or complex TikZ pictures (cont)

```
\bmlImageEnvironment{tikzpicture}
\bmlImageEnvironment{tikzcd} % if using tikzcd
\iflaxml
\else
\usepackage{tikz}
% ... ALL of the TikZ-related preamble code here
\fi
% No TikZ commands after this point!
```

See [Figure 1](#), [Figure 2](#).

Other figures, e.g. \mathbb{X} -matrices or animate

Most packages producing pictures are not supported by \LaTeX ML, but you can get around it exactly like with TikZ:

1. wrap the preamble commands within `\iflaxml\else ... \fi`;
2. if the pictures are their own environments, use `\bmlImageEnvironment` as for TikZ; see for instance [Figure 2](#);
3. if the pictures are not environments, such as `\xymatrix`, wrap them between `\begin{bmlimage}` and `\end{bmlimage}`: see [Figure 3](#).

You can read more details and see examples in [BookML manual](#).

\LaTeX ML 0.8.7 has experimental native support for \mathbb{X} -matrices, but it is still not very good.

Alternative text for images (essential for screen readers)

For `\includegraphics` and \LaTeX ML 0.8.7, just add the option `alt={description of the image}`, as in

```
\includegraphics[alt={Computation of ...}]{figure1}
```

For older versions, and other images such as TikZ pictures, add `\bmlDescription{text}` right after the image (do not leave an empty line between the image and the text). This will populate the `alt` attribute (or equivalent) and will be read by screen readers in place of the image.

Please keep in mind that sighted users may also benefit from the alternative text. If that is the case, consider using `\begin{figure}` and `\caption{}`, and possibly add a reference in the caption to more explanations (e.g. the definition, a proof, etc.).

Table headers (important for screen readers)

You may need to explicitly mark some table rows as headers. This can be done with some appropriate commands provided by \LaTeX ML. See [Figure 6](#) for an example.

Split into multiple pages

Add `SPLITAT=chapter` to Makefile to split the output in various ways (you can use `part`, `chapter`, `section`...). You **must** split long documents, or MathJax will take ages to render your formulas. You can also specify different splitting strategies for different files: add lines like the following

```
lecturenotes.zip: SPLITAT=section
problemsheet1.zip: SPLITAT=
```

to the end of Makefile. The above will split `lecturenotes.tex` into a page per section, and will not split `problemsheet1.tex`. By default, files will be split by chapter.

Disable the bookdown style

If you do not like the bookdown style and prefer a more plain page, like the old `latexmlleads`, use

```
\usepackage[style=plain]{bookml/bookml}
```

You may wish to disable the additional table of contents, for instance add

```
lecturenotes.zip: LATEXMLPOSTEXTRAFLAGS=--navigationtoc=none
```

at the end of Makefile. See 'Split into multiple pages' for more details.

Navigation sidebar

This is already included in the bookdown style. If you disable it, but still want the sidebar, add

```
lecturenotes.zip: LATEXMLPOSTEXTRAFLAGS=--css=LaTeXML-navbar-left.css
```

to the end of Makefile.

Customise css (fonts, color)

Create the `bmluser` folder and add CSS files to it.

Embed videos

You can use `\bmlRawHTML{html}` to write arbitrary HTML, in particular output the embedding code for Stream, Mediasite, YouTube, or any other platform. Unfortunately, Microsoft Stream Classic is being phased out and may be broken in some browsers.

See 2.6 below for some reusable code that will also make the video adapt to the size of the page.

Unsupported packages or classes

L^AT_EX_ML supports only so many packages ([full list](#)). If your package is not supported, or is not supported well, see [subsection 2.5](#).

Resize BookML images

To change the size of the BookML images, use

```
\usepackage[imagescale=2.5]{bookml/bookml}
```

For images converted by L^AT_EX_ML, starting with 0.8.7, you can try the following experimental and undocumented options:

```
\usepackage[dpi=192,magnify=2,upsample=3,zoomout=2]{latexml}
```

although the better solution is to convert EPS and PDF images by yourself separately, preferably to SVG.

Foldable environments

If you want to hide a proof, a solution, or some additional details, you can use the following:

```
\<DETAILS>
  \<SUMMARY>\textbf{Solution.}\</SUMMARY>
  ...details of the solutions...
\</DETAILS>
```

More generally, you can add arbitrary HTML tags by starting them with `\<`, and using the XML syntax (for instance, attributes must have values between quotes, self-closing tags must end with `/>`).

If you like the styling used here, just drop the [bookmlleeds-details.css](#) file into the `bmluser` folder.

Customize header and footer (e.g. for copyright notice)

Use the environments `lxHeader`, `lxFooter`.

```
\begin{lxFooter}
```

Customize header and footer (e.g. for copyright notice) (cont)

```
Copyright \copyright{} 2021 Vincenzo Mantova, University of Leeds.
\end{lxFooter}
```

The header is omitted in the bookdown (GitBook) style.

Disable MathJax for an equation

Add `\bmlDisableMathJax` within the equation. Please review the output in Firefox, Safari, and Chrome/Edge (from versions 109).

Other options

Visit the [BookML documentation](#), the [L^AT_EX_ML documentation](#), or run `latexml --help`, `latexmlpost --help`, `latexmlc --help`.

2.5 Unsupported packages or classes

If L^AT_EX_ML does not recognise a particular package or class, it is sometimes easy to make it work, but it can also be near impossible.

- If you use your own custom-made package or class to keep your favourite packages and options (so essentially a fancy preamble): change its extension to `.tex` and use `\input` instead of `\usepackage`.
- If the package is producing images: use the same strategy as for TikZ, and remember to provide alternative text.
- If L^AT_EX_ML supports a similar package: replace it (for instance, use `actuarialangle` instead of `lifecon`).
- If the package is PDF-specific: use `\iflatexml` and `\newcommand` in the preamble to define macros that do something equivalent, or nothing at all, in HTML. Useful, for instance, for references including page numbers, or setting headers and footers.
- If the class is not supported, tell L^AT_EX_ML to use a different class:

```
% just like \usepackage, but before \documentclass
\RequirePackage{bookml/bookml}
\iflatexml
\documentclass[12pt]{book}
\else
\documentclass[12pt]{memoir}
\fi
```

Make sure you pass your class options are consistent, for instance use the same font size.

- If none of the above works, copy the missing macros directly from the package (or class) and add them to your preamble (usually within `\makeatletter` and `\makeatother`). It may work for simple packages, or packages partially supported by \LaTeX ML.
- Generalising the last idea, you can tell \LaTeX ML to read the entire package or class as if you were using `\input`. To do this, create a file named `package.sty.ltxml` in the same folder as the `.tex` file (replace `package` with the actual package name, and `sty` with `cls` if dealing with a class):

```
use LaTeXML::Package;  
InputDefinitions('package', type => 'sty', noltxml => 1);  
1;
```

This will instruct \LaTeX ML to read the content of `package.sty`. This may work wonderfully, or crash miserably.

2.6 Examples

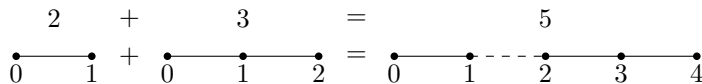


Figure 1: Ordinal sum of 2 and 3 (note that the image has an alternative text!).

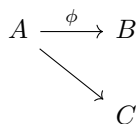


Figure 2: Example of tikzcd diagram.

```
\begin{bmlimage}
  \[ \xymatrix{
    A \ar[rd] \ar^{\phi}[r] & B \\
    & C } \]
\end{bmlimage}
\bmlDescription{A, B, C drawn in a triangle with C under B,
  an arrow labelled phi from A to B and an arrow from A to C}
```

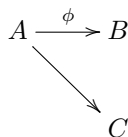


Figure 3: Example of Xy-matrix diagram processed using bmlimage.

2.7 The latexml.sty package (advanced)

The bookml package automatically loads the latexml.sty package (and it includes its own copy if latexml.sty is not in your \LaTeX installation). latexml.sty offers a variety of commands which may be useful. Just open [latexml.sty](#) (it is very short) to see all the commands, a bit of documentation in the comments, and the occasional example. The [source](#) of the \LaTeX ML documentation contains many examples too. Below are some relevant ones.

- `\lxAddClass{class}` and `\lxWithClass{class}{content}` to add CSS classes to the output;
- `\lxBeginTableHead`, `\lxEndTableHead` and variations to mark table headers and footers (read the latexml.sty source for how to use them);

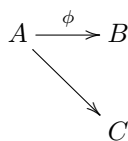


Figure 4: Unsatisfying example of \mathbb{X} -matrix generated directly by $\mathbb{L}^{\text{ATEXML}}$.

- `\lxContextTOC`, `\lxNavbar{arg}`, `\lxHeader{arg}`, `\lxFooter{arg}` to customise the HTML pages;
- `\lxFcn{code}`, `\lxID{code}`, `\lxPunct{code}` to help $\mathbb{L}^{\text{ATEXML}}$ understand the meaning of mathematical symbols (for instance, read $f(a+b)$ as ‘ f applied to $a+b$ ’ as opposed to ‘ f multiplied by $a+b$ ’); the wrong interpretation may affect screen readers, so it will need to be addressed, but for now this is too hard to deal with.

3 Uploading to Minerva

3.1 SCORM packages

1. On the front page of your module, under ‘Module content’, click the \oplus button where you want to insert your item.
2. Choose ‘ \oplus Create’.
3. Choose ‘SCORM package’.
4. Choose ‘Upload SCORM package’ and select your SCORM.<...>.zip file.
5. Disable ‘Grade SCORM’ and click ‘Save’.

Note. Title and abstract of the file will become title and description of the Minerva entry. You will be able to edit the Minerva details right after uploading, if necessary.

3.2 Plain ZIP packages

For the initial permission setup, as well as screenshots of the entire process, consult [Chris’ guide](#).

Below is a summary of the day-to-day upload process, once permissions have been set up:

1. On the front page of your module, under ‘Module content’, click the \oplus button where you want to insert your item.
2. Choose ‘Content Collection’, then ‘Browse Content Collection’.
3. Browse to the folder that has been set up with the appropriate permissions.
4. Click ‘Upload’ and choose ‘Upload Zip Package’.
5. Use ‘Browse Local Files’ to upload your <...>.zip file. You **must enable** ‘If selected, the system automatically overwrites the existing file with the same name’.

6. Click 'Submit', then choose 'index.html' as file to be presented on Minerva.

```
% preamble
\newcommand{\includestream}[2]{
  \bmlRawHTML{<div style="max-width: 1920px; width: 100\%">
    <div style="position: relative; padding-bottom: 56.25\%; height: 0; overflow:
      <iframe
        src="https://web.microsoftstream.com/embed/video/#1?autoplay=false\&amp;s
        title="#2" style="border:none; position: absolute; top: 0; left: 0;
          right: 0; bottom: 0; height: 100\%; max-width: 100\%;"
        allow="picture-in-picture" allowfullscreen="" width="1920" height="1080">
      </iframe>
    </div></div>}
  Watch \href{https://web.microsoftstream.com/video/#1}{#2}
}
% document
\includestream{ba6b8866-df29-4dea-a47e-13decc5cd409}{Mock recording for Models an
```

Watch [Mock recording for Models and Sets](#)

Figure 5: How to embed a video. Note that the \LaTeX special characters are preceeded by a backslash or the output may be invalid.

```
\begin{tabularx}{\textwidth}{c|X|c}
  \lxBeginTableHead{} Header 1 & Header 2 & Header 3 \\
  \hline \lxEndTableHead{}
  Content & Content & Content \\
  More content & content & content \\
  \hline
\end{tabularx}
\caption{A table}
```

Header 1	Header 2	Header 3
Content	Content	Content
More content	content	content

Figure 6: Mark a table row as header. Read the content of [latexml.sty](#) for more table-related commands.