# Travis TeX to EPUB example 1

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December 30, 2017

# Contents

**Abstract**

This is a LATEXdocument showing code, as used in travis_tex_to_epub_example

## 0.1 Introduction

This document compares a PDF and EPUB version of the same TeX file. The results differ. The reason is given here and boils down to that Calibre extracts text from images/tables/etc. as much as it can. If you really want an image, supply a PNG.

The PDF version does show an abstract. The EPUB version does not show an abstract.

The PDF version does show a Table of Content. The EPUB version does not do so implicity: one can select the section from a sidebar.

The PDF version allows a proper citation of beastier[1]. The EPUB version does not show the citation, displayed as '[1]' after the word 'beastier' in the previous sentence.

The PDF version does show a bibliography. The EPUB version does not show a bibliography.

## 0.2 Plain code

```
1  #include <iostream>
2
3  int main()
4  {
5     std::cout << "Hello world\n";
6  }
```

The PDF version show the code above in monospace, with its first line greyed out, and with numbered lines. The EPUB shows the code in the default font.

## 0.3 Added a frame and specific markup

```
1  #include <iostream>
2
3  int main()
4  {
5     std::cout << "Hello world\n";
6  }
```

The PDF version of the code above shows a frame around the code, code is monospace, first line is black, lines are numbered. The EPUB version shows the code in the default font, without a frame.

The PDF version allows to refer to figure 0.3 and places a number there. The EPUB version show the LaTeX code to refer to the listing in verbatim.

## 0.4 Listing with caption

```
1  #include <iostream>
2
3  int main()
4  {
5     std::cout << "Hello world\n";
6  }
```

Listing 1: Label of code with added label and caption

The PDF version shows the caption underneath the listing laid out differently than the main text. The EPUB version shows the caption as any default text.

## 0.5  An equation

$$\Delta r = \frac{ln\left(\frac{L(T)}{L(\frac{1}{2}T)}\right) - ln\left(\frac{L(\frac{1}{2}T)}{L(0)}\right)}{ln\left(\frac{L(T)}{L(\frac{1}{2}T)}\right) + ln\left(\frac{L(\frac{1}{2}T)}{L(0)}\right)} \tag{1}$$

The PDF version shows the equation rendered well. The EPUB version show the LaTeX code to write the equation verbatim.

## 0.6  A PNG figure

Without a `figure` environment:



The PDF version and EPUB version display the figure identically.

Cannot use a `figure` environment, as `epubcheck` will give some error. Below the LaTeX code how to display the figure in a figure environment.

```
1  \begin{figure}[H]
2    \centering
3    \includegraphics[scale=1.0]{TravisCI.png}
4    \caption{Label of figure in a figure environment
         }
5    \label{fig:png}
6  \end{figure}
```

Listing 2: Caption of listing of LaTeX code how to display the figure in a figure environment

## 0.7   An SVG figure

Cannot do this with additional help, as the SVG needs to be converted to EPS first.

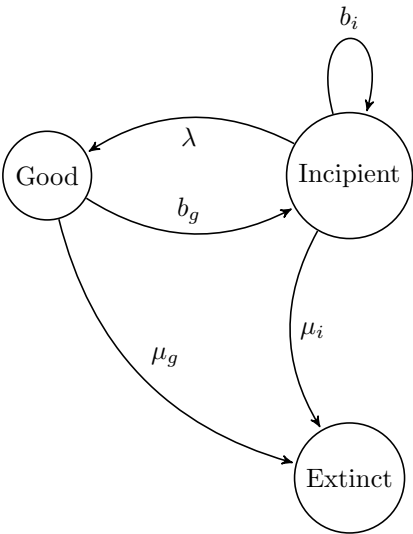## 0.8   A TikZ figure



Figure 0.1: Label of the TikZ figure

The PDF version renders the TikZ image well. The EPUB version shows the TikZ code verbatim.

## 0.9   A table

| 1 | 2 | 3 |
|---|---|---|
| 4 | 5 | 6 |
| 7 | 8 | 9 |

Table 0.1: The caption of the table

The PDF version shows the table with both horizontal and vertical lines. The caption is displayed below the table. The EPUB shows the table without horizontal nor vertical lines. The first row shows text in bold face. The label is displayed verbatim below the table. The caption is showed above the table.

# Bibliography

[1] Richel J.C. Bilderbeek. *beastier: Work with BEAST2 and its output.* R package version 0.1.0.