

Overview

Software

→ Frontends

XMLMind Editor interface showing a document titled `/ma/goik/workspace/Q/sample.xml`. The menu bar includes File, Select, Edit, Search, View, Tools, DocBook, Window, Options, and Help. The toolbar contains various icons for file operations, editing, and formatting. The breadcrumb path is `section > table > tr > td > #text`. The document tabs show `software.xml`, `lectures.xml`, `sample.xml` (active), and `general.xml`.

The main content area displays a document structure:

- 1 Sample elements
 - A sample table

The table content is:

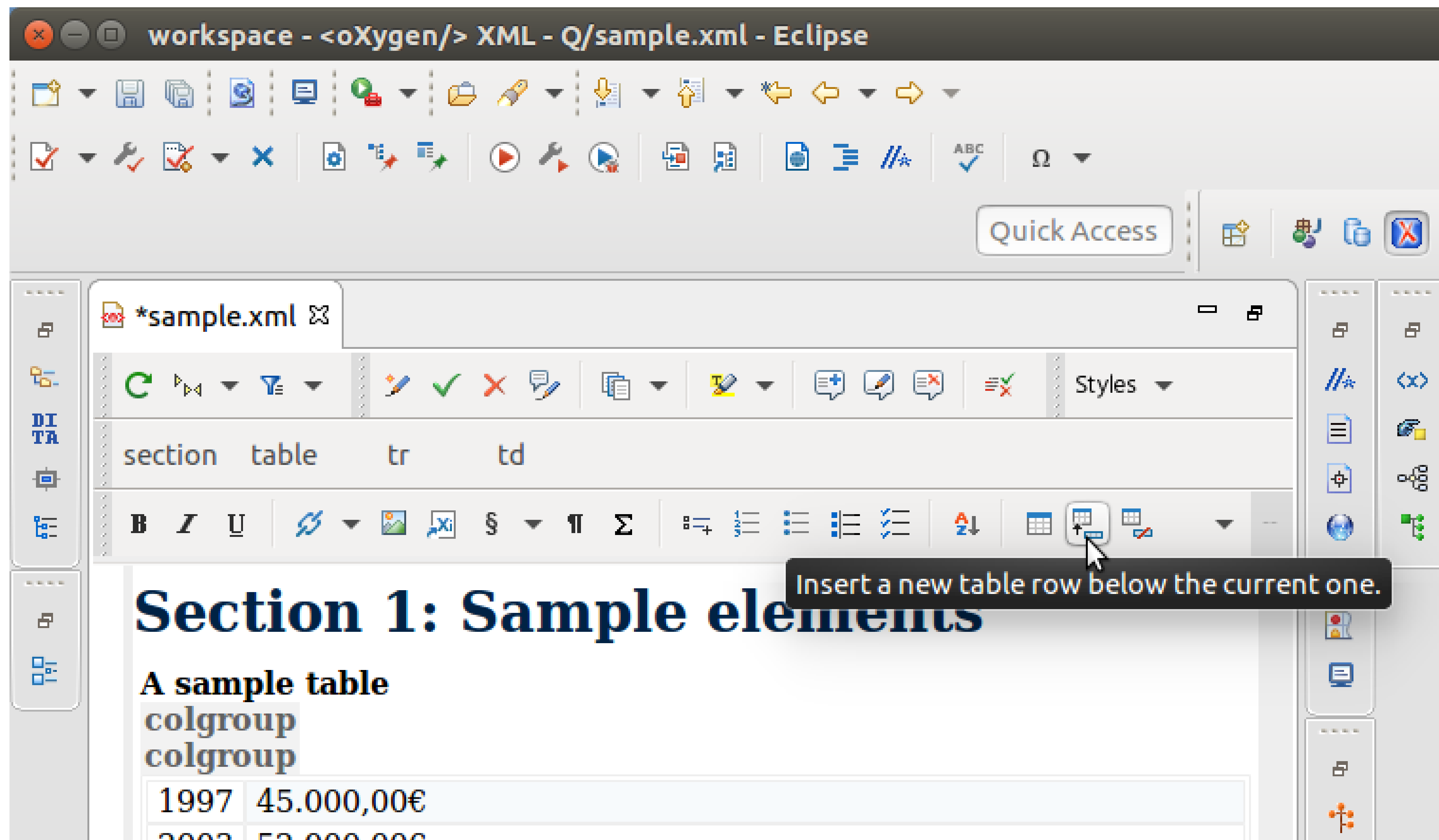
1997	45.000,00€
2003	52.000,00€

Below the table, there is a mathematical formula:

$$\int e^{-x^2} \cdot dx = \sqrt{\pi}$$

The right sidebar shows a context menu with options: Insert Before, Insert After, Cut, Copy, Paste Before, Paste After, and Delete. The Attributes panel is also visible, showing a table of attributes:

Attri...	Value
abbr	-
align	-
arch	-



Vendor links

- [XMLMind editor personal edition](#)
- [Oxygen XML Editor 19](#)

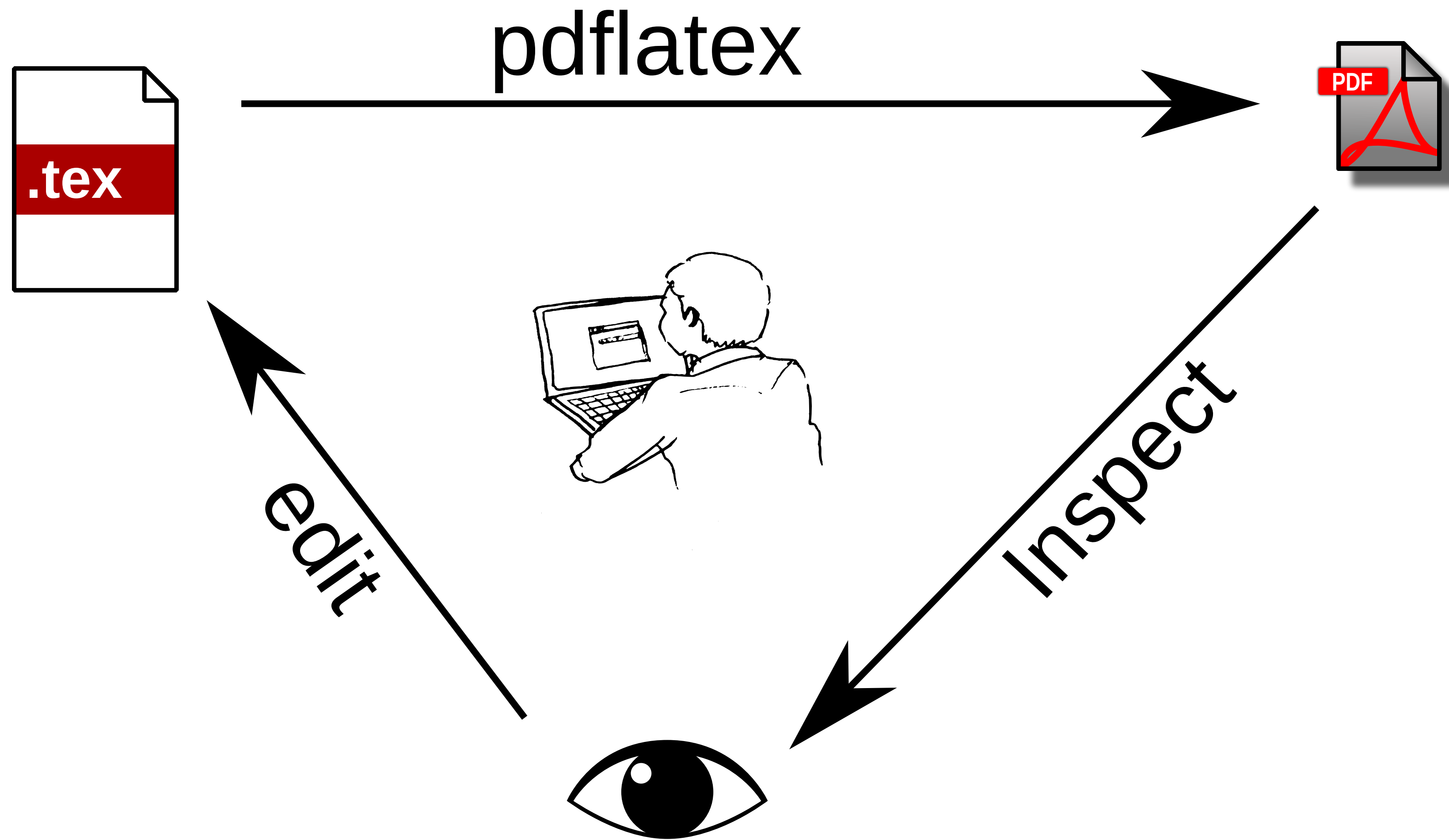
Overview

Software

⇒ Backends

⇒ TeX / LaTeX

Inverse editing



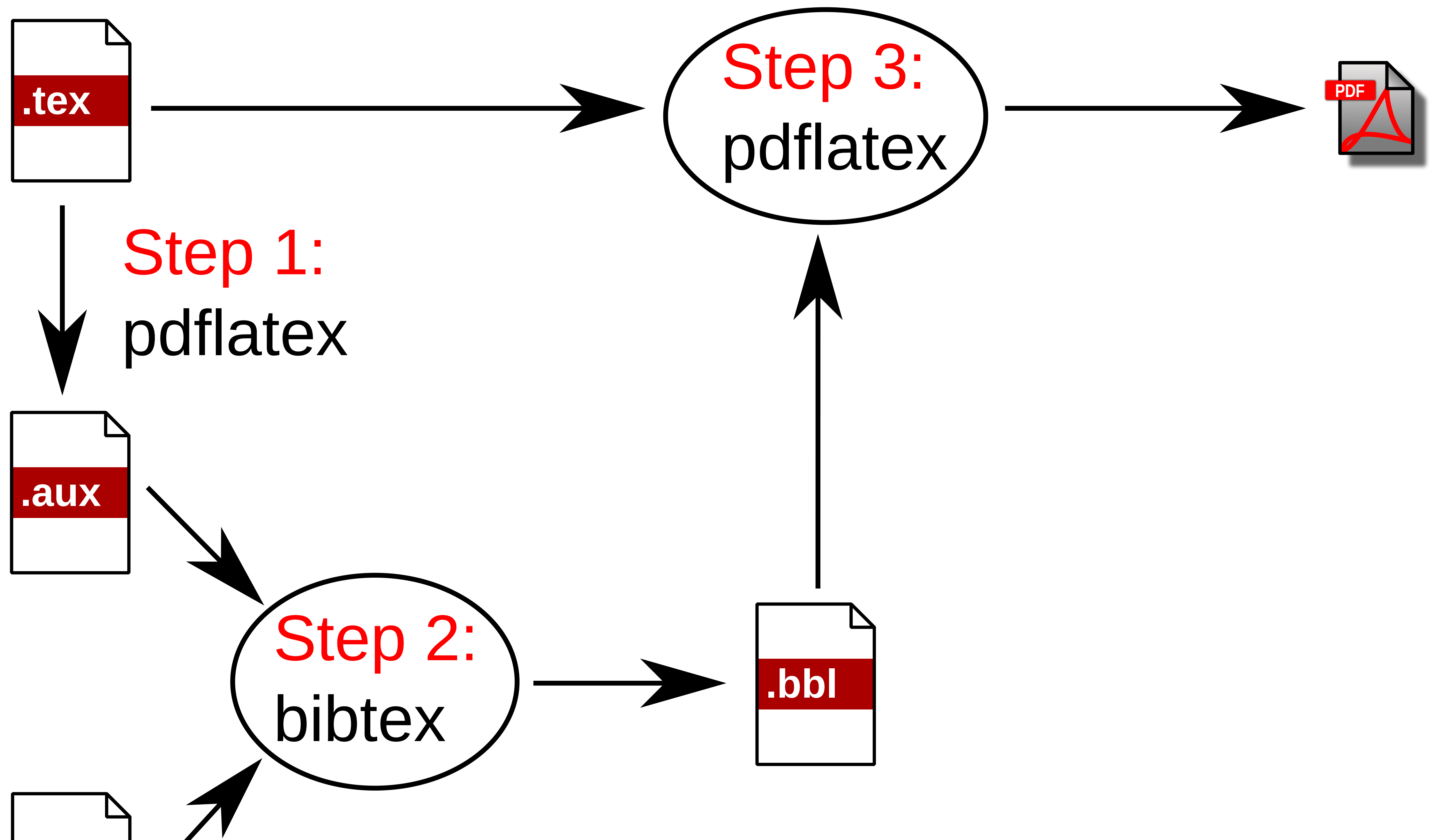
```
\documentclass{article}
\usepackage{listings}           % Include the listings-package
\begin{document}
\lstset{language=Pascal}       % Set your language
\begin{lstlisting}[frame=single] % Start your code-block
for i:=maxint to 0 do
begin
{ do nothing }
end;
Write('Case insensitive ');
Write('Pascal keywords. ');
\end{lstlisting}

\end{document}
```

Components

- TeX compiler
- LaTeX macros
- CTAN extensions
- BibTeX

- Makeindex
- MetaFont
- HTML converter
- more in the universe ...



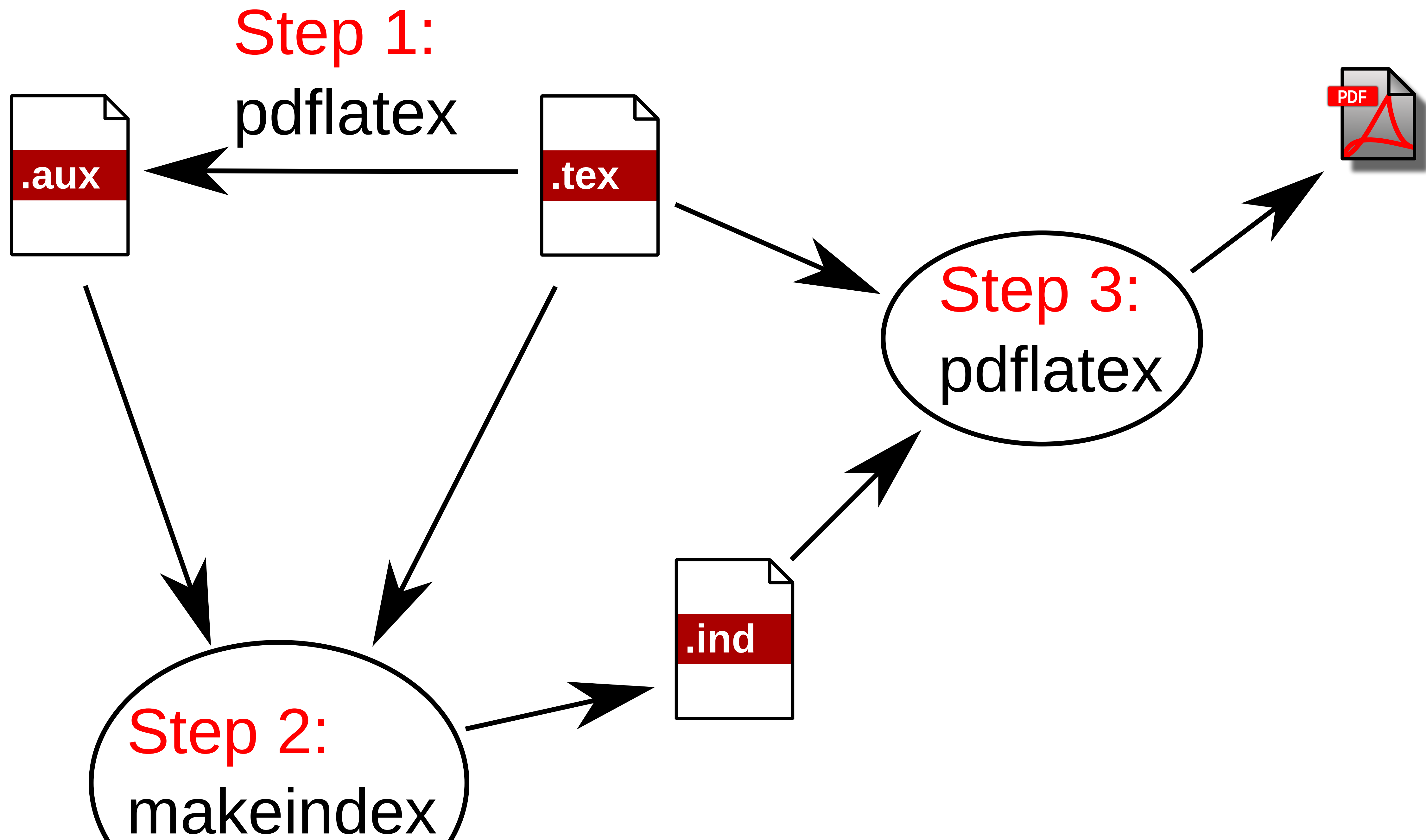
Makeindex example

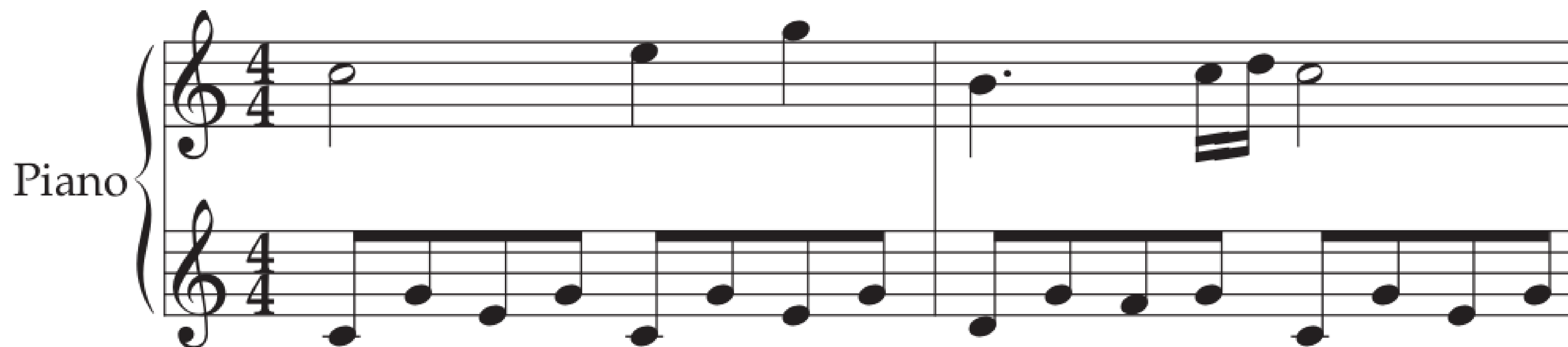
```
\documentclass{article}
\usepackage[utf8]{inputenc}
\usepackage{imakeidx}
\makeindex
\begin{document}
\section{Introduction}
In this example several keywords\index{keywords} will be used
which are important and deserve to appear in the Index\index{Index}.

Terms like generate\index{generate} and some\index{others} will
also show up.

\printindex
\end{document}
```

Makeindex work flow





The coding is as follows:

```
\begin{music}
  \parindent10mm
  \instrumentnumber{1}           % a single instrument
  \setname1{Piano}              % whose name is Piano
  \setstaves1{2}                % with two staves
  \generalmeter{\meterfrac{4}{4}} % 4/4 meter chosen
  \startextract                 % starting real score
  \Notes\ibu0f0\qb0{cge}\tbu0\qb0g|\hl i\en
```

Overview

Software

⇒ Backends

⇒ Docbook

- [Docbook 4.X](#)

Document oriented, based on DTD

- [Docbook 5.0.X](#)

Document oriented, based on [RelaxNG](#).

- [Docbook 5.1](#)

Introducing topics

Components

Schema.

- [Docbook 4.x](#): DTD
- [Docbook 5.x](#): RelaxNG

XSL style sheets.

- HTML
 - (X)[HTML 5](#)
 - Webhelp
 - [Eclipse help](#)
 - [Epub](#)
- PDF using Formatting objects

Editors

- XMLMind Editor
- Oxygen XML Author
- Emacs Nxml mode

Followup exercises

- 288. [LaTeX hello,... world](#)
- 289. [Important elements](#)
- 290. [Macro](#)
- 291. [A complete document](#)