

# Fully Support UTF-8 Only For LaTeX Files

## Context and Problem Statement

The feature [search for citations](#) displays the content of LaTeX files. The LaTeX files are text files and might be encoded arbitrarily.

## Considered Options

- Support UTF-8 encoding only
- Support ASCII encoding only
- Support (nearly) all encodings

## Decision Outcome

Chosen option: “Support UTF-8 encoding only”, because comes out best (see below).

### Positive Consequences

- All content of LaTeX files are displayed in JabRef

### Negative Consequences

- When a LaTeX files is encoded in another encoding, the user might see strange characters in JabRef

## Pros and Cons of the Options

### Support UTF-8 encoding only

- Good, because covers most tex file encodings
- Good, because easy to implement
- Bad, because does not support encodings used before around 2010

### Support ASCII encoding only

- Good, because easy to implement
- Bad, because does not support any encoding at all

### Support (nearly) all encodings

- Good, because easy to implement
- Bad, because it relies on Apache Tika's `CharsetDetector`, which resides in `tika-parsers`.

This causes issues during compilation (see

<https://github.com/JabRef/jabref/pull/3421#issuecomment-524532832>).

Example: `error: module java.xml.bind reads package javax.activation from both java.activation and jakarta.activation`.

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