

# Typesetting Bibliographies Compliant with the Standard ISO 690 in LaTeX

BachoTeX 2017

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1. ISO 690 Standard

2. The package biblatex-iso690

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#### 1. ISO 690 Standard

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#### ISO 690 Standard

- Information and documentation Guidelines for bibliographic references and citations to information resources
- Published by International Organization for Standardization (ISO)
- One of the most frequent guidelines for citations and references

## ISO 690 Editions

History

ISO 690:1987 + ISO 690-2:1997

ISO 690:2010

ČSN ISO 690:2011, STN ISO 690:2012, DIN ISO 690:2013, etc.

## Terminology

Defined in the most recent edition of ISO 690:2010

**citation** indication within the text or other form of content of a relevant reference

reference data describing a resource or part thereof, sufficiently precise and detailed to identify it and to enable it to be located

# Terminology by example

Defined in the most recent edition of ISO 690:2010

10.1007/978-3-662-48899-7 3.

"[…] aj netriviálne deduktívne hry môžu byť vyriešené softvérovým nástrojom [1], čo vedie k záveru […]"

[1] KLIMOŠ, Miroslav; KUČERA, Antonín. Cobra: A Tool for Solving General Deductive Games. In: *Proceedings of 20th International Conference on Logic for Programming, Artificial Intelligence and Reasoning (LPAR 2015)* [online]. Heidelberg: Springer, 2015, pp. 31–47 [visited on 2016-06-15]. LNCS, no. 9450. ISBN 978-3-662-48899-7. Available from DOI:

# What did change in the ISO 690 standard

#### Throughout the editions

- New kinds of information resources
  - cartographic materials
  - audiovisual works
  - etc.
- Explicitly stated, that this International Standard does not prescribe a particular style of reference or citation + consistency principle etc.
- Some terms missing, eg. chapter
- More detailed description of the principles for creating bibliography entries
  - changed or added

#### Order of elements

The usual order of elements in a reference

name(s) of creator(s) if available

date in case of the author-date is being applied
title of the resource

medium designation if necessary
edition required if the item is not a first edition
place the most prominent
publisher the most prominent

#### Order of elements

The usual order of elements in a reference

date in case of the *author-date* is being applied it is not repeated unless a fuller date is necessary

series title and number

numeration within the item

standard identifier(s) ISBN, ISSN, DOI,...

availability access or location information

additional information pertinent for the item

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# Already existing solutions

Or what was missing...

czechiso.bst
\*.csl-based
OPmac-bib plainTeX

BibLaTeX

# Original implementation of biblatex-iso690 By Michal Hoftich

- created in 2011
- by Michal Hoftich
- build on top of the BibLaTeX package
- influenced by the Czech national interpretations
- https://github.com/michal-h21/biblatex-iso690

# Original implementation of biblatex-iso690<sup>1</sup> By Michal Hoftich

#### State of the art

- adhered to out-of-date editions of the standard
- incorrect order of elements
- (redundant/missing) punctuation
- missing some types of resources
- missing some required elements
- missing creator secondary responsibility
- obsolete and deprecated code

# Reimplementation

Of the package biblatex-iso690

#### Macros, commands and definitions

- printing out the elements in the correct order
- parsing and formatting of the bibliography fields
- multilingual references
- further adjustable

#### From the user perspective

- more entry types and fields
- more localisation strings
- more package options

# Printing out the elements in the correct order Original and up-to-date version comparison

...Title [online]. Series number. Place: Publisher, 2016 [visited on 2016-11-08], pp. 31-47. Series title. Url: <path>. ISBN



...Title [online]. Place: Publisher, 2016, pp. 31-47 [visited on 2016-11-08]. Series title, series number. ISBN. Available from <url>

# Parsing and formatting of the bibliography fields

```
\DeclareFieldFormat{howpublished}{\mkbibbrackets{#1}}
\DeclareFieldFormat[online]{howpublished}{%
  \iffieldundef{howpublished}
    {\mkbibbrackets{online}}
    {\mkbibbrackets{#1}}
}
```

# Multilingual references

#### Main document language

- language in which the document is written
- babel package
  - \usepackage [dutch,english]{babel}
  - \usepackage [main=english,dutch]{babel}
- polyglossia package
  - \usepackage {polyglossia}
    \setmainlanguage {english}

#### Bibliography entry language

- language of the cited information resource itself
- .bib file: langid = {english}

# Multilingual references

#### Main document language

- availability and access
- date of citation
- creator roles
- conjunctions

#### Bibliography entry language

- volume
- edition
- numeration

# More entry types and fields

Entry field	Entry type	Description	
supervisor	thesis	advisor of the final qualification	
		work	
classification	patent	patent classification	

Table: Added fields for the bibliography entries

# More localisation strings

String	English	Czech	Slovak
at	at	V	V
bysupervisor	supervised by	vedoucí práce	vedúci práce
urlalso	available also	dostupné také	dostupné tiež
	from	Z	Z

Table: More localisation strings

# More package options for formatting the output

spacecolon=[true|false]Place: PublisherPlace: Publisherpagetotal=[true|false]

```
Place: Publisher, 2008 [60 p.]
Place: Publisher, 2008
shortnumeration=[true|false]
... 2011, 32(3), 289-301 [visited on 2016-05-14] ...
... 2011, vol. 32, no. 3, pp. 289-301 [visited on 2016-05-14] ...
thesisinfoinnotes=[true|false]
... Available from: <... >. BP. MU, FI, Brno. Supervisor Petr SOJKA
... BP. MU, FI, Brno. Supervisor Petr SOJKA. Available from: <... >
```

# Redefining in a document preamble

- \renewcommand \multinamedelim {\addcomma \space }
  - SURNAME, Name, SURNAME, Name
- \let \lastnameformat =\textsc
- etc.

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#### MWE of biblatex-iso690

```
\documentclass{...}
\usepackage[style=iso-authoryear]{biblatex}
\addbibresource{<bibliography-database.bib>}
. . .
\begin{document}
\parencite{...}
\parencite*{...}
\printbibliography
\end{document}
```

# Sample

Different citation methods and missing fields

#### author-year: author and editor

```
"[...] citation of this work (Smith, 2016) [...]"
SMITH, John, 2016. Masterpiece. Ed. DOE, Jane. Place: Publisher
```

#### author-year: editor only

```
"[…] citation of this work (Doe, 2016) […]"
```

DOE, Jane (ed.), 2016. Masterpiece. Place: Publisher

#### numeric style

```
,[...] citation of this work [1] [...]"
```

SMITH, John. Masterpiece. Ed. DOE, Jane. Place: Publisher, 2016

# More samples

Saving Private Ryan [DVD]. Directed by SPIELBERG, Steven. Paramount, 1998

```
@misc{Ryan1998,
  title = {Saving Private Ryan},
  howpublished = {DVD},
  editora = {Steven Spielberg},
  editoratype = {Directed by},
  publisher = {Paramount},
  date = {1998}
}
```

TIMM, Ruediger et al. *Libre Office* [software]. The Document Foundation, 2000–2016. Version 5.2.3 [visited on 2016-11-08]. Available from: https:

//www.libreoffice.org/download/libreoffice-fresh.

System requirements: Linux kernel version 2.6.18 or higher,... 256Mb RAM (512Mb RAM recommended),...

```
@misc{LibreOfficeLatest,
  author = {Ruediger Timm and others},
  title = {Libre Office},
  howpublished = {software},
  publisher = {The Document Foundation},
  date = {2000/2016},
  version = {5.2.3},
  url = {https://www.libreoffice.org/download/libreoffice-fresh},
  note = {System requirements: Linux kernel version 2.6.18 or higher...}
}
```

CLAD METALS LLC CANONSBURG, PA 15317 (US). Method of making a copper core five-ply composite and cooking vessel. Inventor: GROLL, W.A. EP 1 094 937 B1. European patent. Available also from:

https://encrypted.google.com/patents/EP1094937B1

```
@patent{Groll2008,
   author = {Clad Metals LLC Canonsburg, PA 15317 (US)},
   title = {Method of making a copper core five-ply composite and...},
   editora = {Groll, W.A.},
   editoratype = {Inventor:},
   publisher = {Google Patents},
   classification = {EP 1 094 937 B1},
   type = {patenteu},
   url = {https://encrypted.google.com/patents/EP1094937B1}
}
```

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### Summary

- √ full reimplementation of the biblatex-iso690 package
- √ compliant with the latest edition of the standard ISO 690
- √ Czech and English documentation
  - use case examples
  - hints and caveats
- √ first public release
  - integrated into the theses document class fithesis3<sup>1</sup>
  - published on CTAN<sup>2</sup>
    - » part of TEX Live 2016

<sup>1</sup>https://www.ctan.org/pkg/fithesis

<sup>2</sup>https://www.ctan.org/pkg/biblatex-iso690

# Summary

- ✓ Slovak localisation for the biblatex³ package
- √ pull requests by the community (e.g. translations)
- √ 51 stars of the project in the GitHub repository
- √ 17 forks of the project in the GitHub repository

<sup>3</sup>https://www.ctan.org/pkg/biblatex



# Thanks for your attention!

Q&A

**Dávid Lupták**