

## ABOUT

Robert MacInnis (then a student of computer-science at St Andrews), under the supervision of Roy Dyckhoff and James McKinna, wrote the first version of the Frege Logic Editor. It creates Frege style concept-script formulae by mouse-click and outputs a choice of LaTeX- or XML-code (see MacInnis et al. (2004)).

Bug-fixes and adjustments of the software to suit the new grundgesetze style were implemented by Guðmundur Andri Hjálmarsson (a former PhD student in Philosophy at St Andrews).

The LaTeX output requires the package `<grundgesetze.sty>` which can be downloaded from CTAN or via [www.frege.info](http://www.frege.info)

## HOW TO USE

### Adding Negation, Quantifier, or Conditional

1. From the Toolbar-menu select either `<Negation>`, `<Quantifier>`, `<Conditional>`.
2. If you chose `<Quantifier>`, select the desired letter for the quantifier from the Quantifier Selection Panel.
3. In the Formula Editor panel, select the location (which is highlighted in red) for the `<Negation>`, `<Quantifier>`, `<Conditional>` and add by mouse-click.

### Deleting Negation, Quantifier, or Conditional

1. In the Formula Editor, select the item to delete (which is highlighted in red) hold the shift button and delete by mouse-click.

### Change FORMULA content

1. Click on the desired line in the Formula Editor and change the content in the Toolbar-menu.

## OUTPUT

1. Select XML or LaTeX as output in the XML/LaTeX Converter panel. Add desired filename in the filename-box, and click convert
2. The file is saved as .txt file in the folder the editor is located.

## Reference

MacInnis, Rob, James McKinna, Josh Parsons, and Roy Dyckhoff (2004). 'A mechanised environment for Frege's Begriffsschrift notation', in Proceedings of Third Mathematical Knowledge Management Conference, 18–21 September 2004: The Mathematical User-Interfaces Workshop. Białowieża, Poland.  
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## LICENSE

Frege Logic Editor – a GUI to create Grundgesetze style formulae

using LaTeX.

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