

## 0 About this document

Gödel's famous proof [2, 1] is highly interesting, but may be hard to understand. Some of this difficulty is due to the fact that the notation used by Gödel has been largely replaced by other notation. Some of this difficulty is due to the fact that while Gödel's formulations are concise, they sometimes require the readers to make up their own interpretations for formulae, or to keep definitions in mind that may not seem mnemonic to them.

This document is a translation of a large part of Gödel's proof. The translation happens on three levels:

- from German to English
- from Gödel's notation to more common mathematical symbols
- from paper to hyper-text

Hyper-text and colors are used as follows: definitions take place in blue italics, like this: *defined term*. Wherever the defined term is used, we have a red hyper-link to the place in the text where the term was first defined, like this: [defined term](#). Furthermore, each defined term appears in the clickable [index](#) at the end of this document. In the margin of the document, there are page-numbers like this [173], which refer to the original document. Here are links for looking up something by page: [173](#) [174](#) [175](#) [176](#) [177](#) [178](#) [179](#) [180](#) [181](#) [182](#) [183](#) [184](#) [185](#) [186](#) [187](#) [188](#) [189](#) [190](#) [191](#) [196](#). Finally, *small text snippets in magenta* are comments not present in the original text, but perhaps useful for the reader.

This translation omits all foot-notes from the original, and only contains sections [1](#) and [2](#) (out of four).

The translation comes as-is, with no explicit or implied warranty. Use at your own risk, the translator is not willing to take any responsibility for problems you might have because of errors in the translation, or because of misunderstandings. You are permitted to reproduce this document all you like, but only if you include this notice.