Unicode Bidi Algorithm Implementation for OpTEX, LATEX, and Plain

Version: 0.1, 2025-01-19

Udi Fogiel, 2025

The unibidi-lua LuTeX packge is an implementation of the Unicode Annex #9 for OpTEX, LATEX and Plain LuaTEX formats. It allows to typeset bidirectional documents without the need of a special markup.

This package is still in early phase, and the interface might still change. The requirements are the LuaTEX engine, and the `luaotfload` font loader.

Currently there is only only one macro, `\unibidilua`, which accepts a key-value pairs separated by a space. The macro accepts three keyword:

- **enable:** This key adds unibidi-lua's process function to the `pre_shaping_filter` callback. It does not accept a value.
- **disable:** This key removes unibidi-lua's process function from the `pre_shaping_filter` callback. It does not accept a value.
- **fences:** This key accepts a boolean value. It allows to disable or enable step N0 of the UAX9 algorithm.

To use the package, as with other packages, you can do `\load[unibidi-lua]`, `\usepackage{unibidi-lua}` or `\input unibidi-lua` if you are using OpTEX, LATEXor Plain respectively. The process function is added to the `pre_shaping_filter` when you load the package.