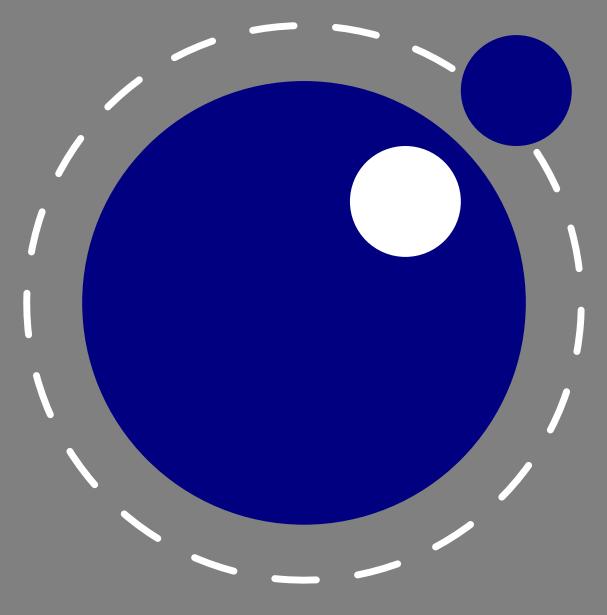
LuaMetaT_EX Reference Manual



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Introduction

Around 2005 we started the LuaT_EX projects and it took about a decade to reach a state where we could consider the experiments to have reached a stable state. Already for a while one could use LuaT_EX in production but some of the interfaces evolved. In 2018 the functionality was more or less frozen. Of course we might add some features in due time but nothing fundamental will change as we consider version 1.10 to be reasonable feature complete. Among the reasons is that this engine is now used outside $ConT_EXt$ too which means that we cannot simply change much without affecting other macro packages.

However, in reaching that state some decisions were delayed because they didn't go well with a current stable version. This is why at the 2018 $ConT_EXt$ meeting those present agreed that we could move on with a follow up tagged MetaT_EX, a name we already had in mind for a while, but as Lua is an important component, it got expanded to LuaMetaT_EX. This follow up is a lightweight companion to LuaT_EX that will be maintained alongside. More about the reasons for this follow up as well as the philosophy behind it can be found on the document(s) describing the development. During LuaT_EX development I kept track of what happened in a series of documents, parts of which were published as articles in user group journals, but all are in the ConT_EXt distribution. I did the same with the development of LuaMetaT_EX.

The LuaMetaT_EX engine is, as said, a lightweight version of LuaT_EX, that for now targets ConT_EXt. We will use it for possibly drastic experiments but without affecting LuaT_EX. As we can easily adapt ConT_EXt to support both, no other macro package will be harmed when (for instance) interfaces change as part of an experiment. Of course, when we consider something to be useful, it can be back ported to LuaT_EX, but only when there are good reasons for doing so. When considering this follow up one consideration was that a lean and mean version with an extension mechanism is a bit closer to original T_EX. Of course, because we have new primitives, this is not entirely true.

This manual currently has quite a bit of overlap with the LuaT_EX manual but some chapters are removed, others added and the rest has been adapted. We also discusses the (main) differences. Some of the new primitives or functions that show up in LuaMetaT_EX might show up in LuaT_EX at some point, others might not. For now it is an experimental engine in which we can change things at will but with ConT_EXt in tandem so it will keep working.

For ConT_EXt users the LuaMetaT_EX engine will become the default. Because we can keep both LuaMetaT_EX and ConT_EXt in sync. The ConT_EXt variant is tagged lmtx. The pair can be used in production, just as with LuaT_EX and MkIV. In fact, most users will probably not really notice the difference.

As this follow up is closely related to $ConT_EXt$ development, and because we expect stock LuaT_EX to be used outside the $ConT_EXt$ proper, there will be no special mailing list nor coverage (or polution) on the LuaT_EX related mailing lists. We have the $ConT_EXt$ mailing lists for that. In due time the source code will be part of the regular $ConT_EXt$ distribution.

This manual refers to LuaT_EX, when we talk of features common to both engine, as well as LuaMetaT_EX, when it is more specific to the follow up.

Hans Hagen



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ConT _E Xt	: MkIV 2019.05.16 19:12
LuaT _E X Team	: Hans Hagen, Hartmut Henkel, Taco Hoekwater, Luigi Scarso



This is a placholder for the LuaMetaT_EX manual. On my system I already have most of it wrapped up, but it will probably take till late 2019 or sometime 2020 before I will decide to add the whole manual to the ConT_EXt distribution.





