Finding the balance

No way back

- We have passed the point of no return already years ago.
- Most users now use MkIV, with an occasional fall-back on MkII.
- The code base is now completely split, with the exception of some modules.
- Some solutions are implemented in Lua with only a small wrapper at the TEX end.

To get an idea

- structure: sectioning, notes, descriptions, registers, synonyms
- typesetting: sectioning, notes, descriptions,

Hybrid coding

- The complete ConTEXt user interface is available at the Lua end (context namespace).
- Eventually all Lua solutions will have a dual interface: Lua (all kind of namespaces) and towards TEX (the command namespace).
- Some of the support Lua modules can also be used independent from ConTEXt.

Coding in TEX

```
\starttabulate[|l|c|r|]
\NC one   \NC 1 \NC first  \NC \NR
\NC two   \NC 2 \NC second \NC \NR
\NC three \NC 3 \NC third  \NC \NR
\stoptabulate
```

Coding in LUA

```
local NC = context.NC
local NR = context.NR

context.starttabulate { "|l|c|r|" }
NC() one   NC() 1 NC() first  NC() NR()
NC() two   NC() 2 NC() second NC() NR()
NC() three NC() 3 NC() third  NC() NR()
context.stoptabulate()
```

Pure LUA vs TEX

```
function converters.ordinal(n,language)
    local t = ordinals[language]
    return t and t(n)
end

function commands.ordinal(n,language)
    local t = ordinals[language]
    local o = t and t(n)
    if o then
        context.highordinalstr(o)
    end
end
```

Up to MKVI

```
\def\MyMacro#Country#City%
  {\blank
   #City is situated in #Country
   \blank}

\MyMacro{Netherlands}{Hasselt}
\MyMacro{Poland}     {Bachotek}
```

CONTEXT LUA Documents

cld-math-001.cld
music-001.cld
m-zint.mkiv
s-edu-01.mkiv
m-morse.mkvi
scrn-wid.mkiv scrn-wid.mkvi
grph-swf.lua lpdf-swf.lua back-swf.mkiv