The Lua-UL package*

Marcel Krüger tex@2krueger.de

July 13, 2020

1 User-level interface

Lua-UL uses new capabilities of the LuaTeX engine to provide underlining/ strikethrough/highlighting etc. support without breaking ligatures, kerning or restricting input. The predefined user-level commands are \underLine, \highLight, and \strikeThrough. (\highLight will only work correctly if the luacolor package is loaded) They are used as

```
\documentclass{article}
\usepackage{lua-ul}
\begin{document}
This package is \strikeThrough{useless}\underLine{awesome}!
\end{document}
```

This package is uselessawesome!

For limited compatibility with soul, the soul package option allows you to use the traditional macro names from soul instead:

```
\documentclass{article}
\usepackage[soul]{lua-ul}
\begin{document}
This package is \st{useless}\ul{awesome}!
\end{document}
```

The \highLight command highlights the argument in yellow by default. This color can be changed either by providing a color as optional argument or by changing the default through \LuaULSetHighLightColor:

^{*}This document corresponds to Lua-UL v0.1.0, dated 2020/07/13.

```
\documentclass{article}
\usepackage{xcolor,luacolor,lua-ul}
\LuaULSetHighLightColor{green}
\begin{document}
Lots of stuff is \highLight{important enough to be highlighted},
but only few things are dangerous enough to deserve
\highLight[red]{red highlighting.}
\LuaULSetHighLightColor{yellow}
Let's go back to traditional \highLight{highlighting}.
\end{document}
```

Lots of stuff is important enough to be highlighted, but only few things are dangerous enough to deserve red highlighting.

Let's go back to traditional highlighting.

2 Expert interface

\newunderlinetype

For this, use

The final argument contains the actual leader command. You should omit the final glue normally passed to \leaders, so e.g. write \leaders\hbox{ . } without appending \hfill or \hskip1pt etc. In most cases, the height and depth of your underlines is passed on to TeX to ensure that a deep underline does not interept other lines. On the other hand, running dimensions work fine if you use a rule.

For example, the special underline commands demonstrated above are implemented as

```
\usepackage{luacolor,tikzducks,pict2e}
\newunderlinetype\beginUnderDuck{\cleaders\hbox{%
  \begin{tikzpicture}[x=.5ex,y=.5ex,baseline=.8ex]%
  \end{tikzpicture}%
}}
\newcommand\underDuck[1]{{\beginUnderDuck#1}}
\newunderlinetype\beginUnderWavy[\number\dimexpr1ex]{\cleaders\hbox{%
    \setlength\unitlength{.3ex}%
    \begin{array}{l} \begin{array}{l} \text{begin{picture}(4,0)(0,1)} \end{array} \end{array}
       \thicklines
       \color{red}%
      \qbezier(0,0)(1,1)(2,0)
       \qbezier(2,0)(3,-1)(4,0)
    \end{picture}%
}}
\newcommand\underWavy[1]{{\beginUnderWavy#1}}
\newunderlinetype\beginStrikeThough{\leaders\hbox{%
    \normalfont\bfseries/%
\newcommand\StrikeThough[1]{{\beginStrikeThough#1}}
```

Here \underWavy uses a custom context because it doesn't change depending on the current font color.

If you only want to use \newunderlinetype and do not want to use the predefined underline types, you can use the minimal package option to disable them.

3 The implementation

3.1 Helper modules

First we need a separate Lua module pre_append_to_vlist_filter which provides a variant of the append_to_vlist_filter callback which can be used by multiple packages. This ensures that we are compatible with other packages implementing append_to_vlist_filter. First check if an equivalent to pre_append_to_vlist_filter already exists. The idea is that this might eventually get added to the kernel directly.

```
if luatexbase.callbacktypes.pre_append_to_vlist_filter then
    return
end

local call_callback = luatexbase.call_callback
local flush node = node.flush node
```

```
local prepend_prevdepth = node.prepend_prevdepth
  local callback_define
HACK: Do not do this at home! We need to define the engine callback directly,
so we use the debug library to get the "real" callback.define:
  for i=1,5 do
    local name, func = debug.getupvalue(luatexbase.disable_callback, i)
    if name == 'callback_register' then
      callback_define = func
      break
    end
  end
  if not callback_define then
    error[[Unable to find callback.define]]
  end
  local function filtered_append_to_vlist_filter(box,
                                                  locationcode,
                                                  prevdepth,
                                                  mirrored)
    local current = call_callback("pre_append_to_vlist_filter",
                                  box, locationcode, prevdepth,
                                  mirrored)
    if not current then
      flush_node(box)
      return
    elseif current == true then
      current = box
    return call_callback("append_to_vlist_filter",
                         current, locationcode, prevdepth, mirrored)
  end
  callback_define('append_to_vlist_filter',
                  filtered_append_to_vlist_filter)
  luatexbase.callbacktypes.append_to_vlist_filter = nil
  luatexbase.create_callback('append_to_vlist_filter', 'exclusive',
                             function(n, _, prevdepth)
                               return prepend_prevdepth(n, prevdepth)
                             end)
  luatexbase.create_callback('pre_append_to_vlist_filter',
                              'list', false)
3.2 Lua module
Now we can define our main Lua module:
```

```
local unset_t = node.id'unset'
local hlist_t = node.id'hlist'
local vlist_t = node.id'vlist'
```

```
local kern_t = node.id'kern'
local glue_t = node.id'glue'
local properties = node.direct.get_properties_table()
local has_attribute = node.direct.has_attribute
local set_attribute = node.direct.set_attribute
local dimensions = node.direct.dimensions
local flush_node = node.direct.flush_node
local getboth = node.direct.getboth
local getfield = node.direct.getfield
local getglue = node.direct.getglue
local getleader = node.direct.getleader
local getlist = node.direct.getlist
local setheight = node.direct.setheight
local setdepth = node.direct.setdepth
local getheight = node.direct.getheight
local getdepth = node.direct.getdepth
local getnext = node.direct.getnext
local getshift = node.direct.getshift
local insert_after = node.direct.insert_after
local insert_before = node.direct.insert_before
local nodecopy = node.direct.copy
local nodenew = node.direct.new
local setboth = node.direct.setboth
local setlink = node.direct.setlink
local hpack = node.direct.hpack
local setfield = node.direct.setfield
local slide = node.direct.slide
local setglue = node.direct.setglue
local setnext = node.direct.setnext
local setshift = node.direct.setshift
local todirect = node.direct.todirect
local tonode = node.direct.tonode
local traverse = node.direct.traverse
local traverse_id = node.direct.traverse_id
local traverse_list = node.direct.traverse_list
% The following two are needed to deal with unset nodes
local getList = function(n) return getfield(n, 'list') end
local setList = function(n, h) return setfield(n, 'list', h) end
local tokennew = token.new
local set_lua = token.set_lua
local scan_keyword = token.scan_keyword
local scan_list = token.scan_list
local scan_int = token.scan_int
local scan_toks = token.scan_toks
local put next = token.put next
local texerror = tex.error
```

```
local functions = lua.get_functions_table()
local char_given = token.command_id'char_given'

local underlineattrs = {}
local underline_types = {}
local underline_strict_flag = {}
local underline_over_flag = {}

local vmode do
   for k, v in pairs(tex.getmodevalues()) do
   if v == "vertical" then
       vmode = k
       break
   end
   end
end
local texnest = tex.nest
```

To avoid influence from \everyhbox we reset \everyhbox to an empty token list directly before scanning. As an added complication, we need to use a name which is guaranteed to be the primitive tokenlist and we might have to restore it before reading the actual argument (There might be a reason why \everyhbox was sat after all. Also we have to ensure that braces swallowed by LuaTeX are balanced, otherwise we get hard to trace errors in alignment contexts.

```
local scan_raw_hlist do
  local create = token.create
  local lbrace, rbrace = token.new(0x7B, 1), token.new(0x7D, 2)
  tex.enableprimitives('luaul@', {'everyhbox'})
  local set_everyhbox do
    local set_toks1, set_toks2 = {create'immediateassignment',
                                  create'luaul@everyhbox', lbrace},
                                 {rbrace, create'relax'}
    function set_everyhbox(t)
      token.put_next(set_toks2)
      token.put_next(t)
      token.put_next(set_toks1)
      token.scan_token()
    end
  end
  local func = luatexbase.new_luafunction"luaul.restore_everyhbox"
  local everyhbox_saved
  functions[func] = function() set_everyhbox(everyhbox_saved) end
  local toks = {rbrace, -- Housekeeping, only for balance reasons
                lbrace, create'the', create'luaul@everyhbox', rbrace,
                create'hpack', lbrace,
                  token.new(func, token.command_id'lua_call')}
  function scan_raw_hlist()
    assert(token.get_next().command == 1)
    put_next(toks)
```

```
token.get_next() -- Scan a corresponding brace to keep TeX's brace tracking happy
    local saved_toks = scan_toks(false, true)
    everyhbox_saved = saved_toks
    set_everyhbox{}
    local list = scan_list()
    set_everyhbox(saved_toks)
    return list
  end
end
local saved_values = {}
local function new_underline_type()
 for i=1, #underlineattrs do
   local attr = underlineattrs[i]
    saved_values[i] = tex.attribute[attr]
    tex.attribute[attr] = -0x7FFFFFFF
  end
  local strict_flag = scan_keyword'strict'
  local over_flag = scan_keyword'over'
  local b = todirect(scan_raw_hlist())
  for i=1, #underlineattrs do
    tex.attribute[underlineattrs[i]] = saved_values[i]
  end
  local lead = getlist(b)
  if not getleader(lead) then
    texerror("Leader required", {"An underline type has to \z
      be defined by leader. You should use one of the", "commands \z
      \\leaders, \\cleaders, or \\xleader, or \\gleaders here."})
  else
    local after = getnext(lead)
    if after then
      texerror("Too many nodes", {"An underline type can only be \z
          defined by a single leaders specification,", "not by \z
          multiple nodes. Maybe you supplied an additional glue?",
          "Anyway, the additional nodes will be ignored"})
      setnext(lead, nil)
    end
    table.insert(underline_types, lead)
    setList(b, after)
    flush_node(b)
  put_next(tokennew(#underline_types, char_given))
  underline_strict_flag[#underline_types] = strict_flag
  underline_over_flag[#underline_types] = over_flag
end
```

In append_to_vlist_filter we can not access the list attributes, so we just take the current ones. They might be incorrect if the attribute changes in the vlist, so we record the original value in a property then.

```
local function set_underline()
```

```
local j, props
  for i=texnest.ptr,0,-1 do
    local mode = texnest[i].mode
    if mode == vmode or mode == -vmode then
      local head = todirect(texnest[i].head)
      local head_props = properties[head]
      if not head_props then
        head_props = {}
        properties[head] = head_props
      end
      props = head_props.luaul_attributes
      if not props then
        props = {}
        head_props.luaul_attributes = props
        break
      end
    end
  end
  for i=1,#underlineattrs do
   local attr = underlineattrs[i]
    if tex.attribute[attr] == -0x7FFFFFFF then
      j = attr
      break
    end
  end
  if not j then
    j = luatexbase.new_attribute(
        "luaul" .. tostring(#underlineattrs+1))
    underlineattrs[#underlineattrs+1] = j
  end
  props[j] = props[j] or -0x7FFFFFFF
  tex.attribute[j] = scan_int()
local function reset_underline()
  local reset_all = scan_keyword'*'
 local j
 for i=1, #underlineattrs do
    local attr = underlineattrs[i]
    if tex.attribute[attr] ~= -0x7FFFFFFF then
      if reset_all then
        tex.attribute[attr] = -0x7FFFFFFF
      else
        j = attr
      end
    end
  end
  if not j then
    if not reset_all then
      texerror("No underline active", {"You tried to disable \z
```

```
underlining but underlining was not active in the first",
            "place. Maybe you wanted to ensure that \z
            no underling can be active anymore?", "Then you should \z
            append a *."})
    end
    return
  end
  tex.attribute[j] = -0x7FFFFFFF
end
local new_underline_type_func =
    luatexbase.new_luafunction"luaul.new_underline_type"
local set_underline_func =
    luatexbase.new_luafunction"luaul.set_underline_func"
local reset_underline_func =
    luatexbase.new_luafunction"luaul.reset_underline_func"
set_lua("LuaULNewUnderlineType", new_underline_type_func)
set_lua("LuaULSetUnderline", set_underline_func, "protected")
set_lua("LuaULResetUnderline", reset_underline_func, "protected")
functions[new_underline_type_func] = new_underline_type
functions[set_underline_func] = set_underline
functions[reset_underline_func] = reset_underline
```

A little helper to measure box contents and creating a glue node with inverted dimensions.

```
local stretch_fi = {}
local shrink_fi = {}
local function fil_levels(n)
  for i=0,4 do
    stretch_fi[i], shrink_fi[i] = 0, 0
  for n in traverse_id(glue_t, n) do
    local w, st, sh, sto, sho = getglue(n)
    stretch_fi[sto] = stretch_fi[sto] + st
    shrink_fi[sho] = shrink_fi[sho] + sh
  local stretch, shrink = 0, 0
  for i=0,4 do
    if stretch_fi[i] ~= 0 then
      stretch = i
    if shrink_fi[i] ~= 0 then
      shrink = i
    end
  end
 return stretch, shrink
end
local function new_glue_neg_dimensions(n, t,
                                       stretch_order, shrink_order)
  local g = nodenew(glue_t)
```

```
local w = -dimensions(n, t)
    setglue(g, w)
  % setglue(g, -dimensions(n, t), 0, 0, stretch_order, shrink_order)
    setnext(g, n)
    setglue(g, w, -dimensions(1, 1, stretch_order, g, t),
                     dimensions(1, 2, shrink_order, g, t),
                     stretch_order, shrink_order)
    setnext(g, nil)
    return g
  end
Now the actual undelining
  local add_underline_hlist, add_underline_hbox, add_underline_vbox
  local function add_underline_vlist(head, attr, outervalue)
    local iter, state, n = traverse_list(head) -- FIXME: unset nodes
    local t
    n, t = iter(state, n)
    while n ~= nil do
      local real_new_value = has_attribute(n, attr)
      local new_value = real_new_value ~= outervalue
                          and real_new_value or nil
      if underline_strict_flag[new_value] or not new_value then
        if t == hlist_t then
          add_underline_hbox(n, attr, real_new_value)
        elseif t == vlist_t then
          add_underline_vbox(n, attr, real_new_value)
        end
        n, t = iter(state, n)
      elseif real_new_value <= 0 then</pre>
        n, t = iter(state, n)
      else
        local nn
        nn, t = iter(state, n)
        local prev, next = getboth(n)
        setboth(n, nil, nil)
        local shift = getshift(n)
        setshift(n, 0)
        local new_list = hpack((add_underline_hlist(n, attr)))
        setheight(new_list, getheight(n))
        setdepth(new_list, getdepth(n))
        setshift(new_list, shift)
        setlink(prev, new_list, next)
        set_attribute(new_list, attr, 0)
        if n == head then
          head = new_list
        end
        n = nn
      end
    end
```

```
return head
end
function add_underline_vbox(head, attr, outervalue)
  if outervalue and outervalue <= 0 then return end
  setList(head, add_underline_vlist(getList(head), attr, outervalue))
  set_attribute(head, attr, outervalue and -outervalue or 0)
end
function add_underline_hlist(head, attr, outervalue)
  local max_height, max_depth
  slide(head)
  local last_value
  local first
  local shrink_order, stretch_order
  for n, id, subtype in traverse(head) do
   local real_new_value = has_attribute(n, attr)
    local new_value
    if real_new_value then
      if real_new_value > 0 then
        set_attribute(n, attr, -real_new_value)
        new_value = real_new_value ~= outervalue
                      and real_new_value or nil
      end
    else
      set_attribute(n, attr, 0)
    if id == hlist_t then
      if underline_strict_flag[new_value]
          or subtype == 3 or not new_value then
        add_underline_hbox(n, attr, real_new_value)
        new_value = nil
      end
    elseif id == vlist_t then
      if underline_strict_flag[new_value] or not new_value then
        add_underline_vbox(n, attr, real_new_value)
        new_value = nil
      end
    elseif id == kern_t and subtype == 0 then
      local after = getnext(n)
      if after then
        local next_value = has_attribute(after, attr)
        if next_value == outervalue or not next_value then
          new_value = nil
        else
          new_value = last_value
        end
      else
        new_value = last_value
    elseif id == glue_t and (
        subtype == 8 or
```

```
subtype == 9 or
      subtype == 15 or
  false) then
   new_value = nil
  end
  if last_value ~= new_value then
    if not stretch_order then
      stretch_order, shrink_order = fil_levels(head)
    end
    {\tt if\ last\_value\ then}
      local glue = new_glue_neg_dimensions(first, n,
          stretch_order, shrink_order)
      local w, st, sh = getglue(glue)
      local lead = nodecopy(underline_types[last_value])
      setglue(lead, -w, -st, -sh, stretch_order, shrink_order)
      if underline_over_flag[last_value] then
        head = insert_before(head, n, glue)
        insert_after(head, glue, lead)
        head = insert_before(head, first, lead)
        insert_after(head, lead, glue)
      end
    end
    if new_value then
      first = n
      local box = getleader(underline_types[new_value])
      if not max_height or getheight(box) > max_height then
        max_height = getheight(box)
      if not max_depth or getdepth(box) > max_depth then
        max_depth = getdepth(box)
      end
    last_value = new_value
  end
end
if last_value then
  local glue = new_glue_neg_dimensions(first, nil,
      stretch_order, shrink_order)
  local w, st, sh = getglue(glue)
  local lead = nodecopy(underline_types[last_value])
  setglue(lead, -w, -st, -sh, stretch_order, shrink_order)
  if underline_over_flag[last_value] then
    insert_before(head, nil, glue)
    insert_after(head, glue, lead)
   head = insert_before(head, first, lead)
    insert_after(head, lead, glue)
  end
end
```

```
return head, max_height, max_depth
end
function add_underline_hbox(head, attr, outervalue, set_height_depth)
  if outervalue and outervalue <= 0 then return end
  local new_head, new_height, new_depth
      = add_underline_hlist(getList(head), attr, outervalue)
  setList(head, new_head)
  if set_height_depth then
    if new_height and getheight(head) < new_height then
      setheight(head, new_height)
    end
    if new_depth and getdepth(head) < new_depth then
      setdepth(head, new_depth)
    end
  end
  set_attribute(head, attr, outervalue and -outervalue or 0)
require'pre_append_to_vlist_filter'
luatexbase.add_to_callback('pre_append_to_vlist_filter',
    function(b, loc, prev, mirror)
      local props = properties[todirect(texnest.top.head)]
      props = props and props.luaul_attributes
      b = todirect(b)
      if loc == "post_linebreak" then
        for i = 1, #underlineattrs do
          local attr = underlineattrs[i]
          local current = props and props[attr] or tex.attribute[attr]
          if current == -0x7FFFFFF then
            current = nil
          end
          add_underline_hbox(b, underlineattrs[i], current, true)
        end
      else
        for i = 1, #underlineattrs do
          local attr = underlineattrs[i]
          local current = props and props[attr] or tex.attribute[attr]
          local b_attr = has_attribute(b, attr)
          if b_attr and b_attr ~= current then
            local shift = getshift(b)
            setshift(b, 0)
            b = hpack((add_underline_hlist(b, attr)))
            setshift(b, shift)
            set_attribute(b, attr, 0)
          end
        end
      end
      return tonode(b)
    end, 'add underlines to list')
luatexbase.add_to_callback('hpack_filter',
    function(head, group, size, pack, dir, attr)
```

```
head = todirect(head)
      for i = 1, #underlineattrs do
        local ulattr = underlineattrs[i]
        local current
        for n in node.traverse(attr) do
          if n.number == ulattr then
            current = n.value
          end
        end
        head = add_underline_hlist(head, ulattr, current)
      return tonode(head)
    end, 'add underlines to list')
luatexbase.add_to_callback('vpack_filter',
    function(head, group, size, pack, maxdepth, dir, attr)
      if true then return head end
      head = todirect(head)
      for i = 1, #underlineattrs do
        local ulattr = underlineattrs[i]
        local current
        for n in node.traverse(attr) do
          if n.number == ulattr then
            current = n.value
          end
        end
        head = add_underline_vlist(head, ulattr, current)
      return tonode(head)
    end, 'add underlines to list')
```

3.3 T_EX support package

Now only some LATEX glue code is still needed Only LuaLATEX is supported. For other engines we show an error.

```
\ifx\directlua\undefined
  \PackageError{lua-ul}{LuaLaTeX required}%
  {Lua-UL requires LuaLaTeX.
   Maybe you forgot to switch the engine in your editor?}
\fi
\directlua{require'lua-ul'}
\RequirePackage{xparse}
```

We support some options. Especially minimal will disable the predefined commands \underLine and \strikeThrough and allow you to define similar commands with your custom settings instead, soul tries to replicate names of the soul package.

```
\newif\ifluaul@predefined
\newif\ifluaul@soulnames
\luaul@predefinedtrue
```

```
\DeclareOption{minimal}{\luaul@predefinedfalse}
\DeclareOption{soul}{\luaul@soulnamestrue}
\ProcessOptions\relax

Just one more tiny helper.
\protected\def\luaul@maybedefineuse#1#2{%
\unless\ifcsname#1\endcsname
\expandafter\xdef\csname#1\endcsname{#2}%
\fi
\csname#1\endcsname
}
```

The default for the context argument. Give that most stuff should scale vertically with the font size, we expect most arguments to be given in ex. Additionally especially traditional underlines will use the currently active text color, so especially when luacolor is loaded we have to include the color attribute too.

```
\newcommand\luaul@defaultcontext{%
      \number\dimexpr1ex
      @\unless\ifx\undefined\LuaCol@Attribute
        \the\LuaCol@Attribute
      \fi
The main macro.
  \NewDocumentCommand\newunderlinetype
      { E{*}{{}} m O{\luaul@defaultcontext} m }{%
    \newcommand#2{}% "Reserve" the name
    \protected\def#2{%
      \expandafter\luaul@maybedefineuse
        \expanded{{\csstring#200#3}}%
        {\LuaULSetUnderline
          \LuaULNewUnderlineType#1{#4\hskip0pt}%
    }}%
  }
  \ifluaul@predefined
```

For \highLight, the color should be customizable. There are two cases: If xcolor is not loaded, we just accept a simple color name. Otherwise, we accept color as documented in xcolor for PSTricks: Either a color name, a color expression or a combination of colormodel and associated values.

```
\newcommand\luaul@highlight@color{yellow}
\def\luaul@setcolor\xcolor@#1#2{}
\newcommand\luaul@setcolor[1] {%
  \ifx\XC@getcolor\undefined
  \def\luaul@highlight@currentcolor{#1}%
\else
  \begingroup
  \XC@getcolor{#1}\luaul@tmpcolor
  \expanded{\endgroup
  \def\noexpand\luaul@highlight@currentcolor{%
  \expandafter\luaul@setcolor\luaul@tmpcolor}}%
```

```
\fi
Now a user-level command to set the default color.
  \NewDocumentCommand\LuaULSetHighLightColor{om}{%
    \edef\luaul@highlight@color{\IfValueTF{#1}{[#1]{#2}}{#2}}%
The sizes for the predefined commands are stolen from the "soul" default values.
    \newunderlinetype\@underLine%
      {\leaders\vrule height -.65ex depth .75ex}
    \newcommand\underLine[1]{{\@underLine#1}}
    \newunderlinetype\@strikeThrough%
      {\leaders\vrule height .55ex depth -.45ex}
    \newcommand\strikeThrough[1]{{\@strikeThrough#1}}
    \newunderlinetype\@highLight[\number\dimexpr1ex@%
                                  \luaul@highlight@currentcolor]%
      {%
        \ifx\XC@getcolor\undefined
          \color{\luaul@highlight@currentcolor}%
        \else
          \expandafter\XCQundeclaredcolor\luaulQhighlightQcurrentcolor
        \fi
        \leaders\vrule height 1.75ex depth .75ex
      }
    \newcommand\highLight[2][\luaul@highlight@color]{{%
      \luaul@setcolor{#1}%
      \@highLight#2%
    }}
    \ifluaul@soulnames
      \let\textul\underLine \let\ul\textul
      \let\textst\strikeThrough \let\st\textst
      \let\texthl\highLight \let\hl\texthl
  \fi
Finally patch \reset@font to ensure that underlines do not propagate into
unexpected places.
  \ifx \reset@font \normalfont
    \let \reset@font \relax
    \DeclareRobustCommand \reset@font {%
      \normalfont
      \LuaULResetUnderline*%
    }
  \else
    \MakeRobust \reset@font
    \begingroup
      \expandafter \let
          \expandafter \helper
          \csname reset@font \endcsname
```

```
\expandafter \endgroup
\expandafter \gdef
  \csname reset@font \expandafter \endcsname
\expandafter {%
   \helper%
   \LuaULResetUnderline*%
}
\fi
```

Change History

0.0.1	Patch \reset@font 12
General: Initial release 3	0.0.3
General: Add command to disable active underlining 6	General: Make streight lines over hboxes
Allow \highLight color	Use glue instead of kern to
customization 11	allow handling unset lists 6