

# penlight

**Lua libraries for use in LuaLaTeX**

Kale Ewasiuk (kalekje@gmail.com)

2021-11-07

The official documentation for the Lua library can be found here:

<https://stevedonovan.github.io/Penlight/api/manual/01-introduction.md.html#>

## **Required Package Option**

The first option sent to this package **MUST** be one of:

`[penlight]` or `[pl]`.

All Penlight sub-modules are then available under this global variable by either `penlight.XYZ` or `pl.XYZ`

## Additional Package Options

- stringx** will import additional string functions into the string meta table.  
this will be ran in pre-amble: `require('pl.stringx').import()`  
<https://stevedonovan.github.io/Penlight/api/libraries/pl.stringx.html>
- format** allows % operator for Python-style string formatting  
this will be ran in pre-amble: `require('pl.text').format_operator()`  
<https://stevedonovan.github.io/Penlight/api/libraries/pl.text.html>
- func** allows placehold expressions eg. `_1+1` to be used  
this will be ran in pre-amble: `penlight.utils.import('pl.func')`  
<https://stevedonovan.github.io/Penlight/api/libraries/pl.func.html>
- extras** adds some additional functions. Adds functions to some Penlight sub-modules. The following Lua globals will be defined:  
`close_bkt_cnt`, `add_bkt_cnt`, `reset_bkt_cnt`, `_NumBkts`,  
`_xTrue`, `_xFalse`, `_xNoValue`, `__SKIP_TEX__`, `hasval`, `mod`,  
`mod2`,

If you want to use Penlight (and extras) with the `texlua` interpreter (no document made, only for Lua files, useful for testing), you can access it by the following:

```
package.path = package.path .. ';' .. 'path/to/texmf/tex/latex/penlight/?.lua'
penlight = require('penlight')
__SKIP_TEX__ = true --only required if you want to use
                    --penlightextras without a LaTeX run
require('penlightextras')
```

Disclaimer: I am not the author of the Lua Penlight library. Penlight is Copyright ©2009-2016 Steve Donovan, David Manura. The distribution of Penlight used for this library is: <https://github.com/lunarmodules/penlight>  
The author of this library has merged all Lua sub-modules into one file for this package.