

distribution

packaging and installation

context 2024 meeting

The tree

mandate:

1 tex/texmf-<platform>/bin
2 tex/texmf
3 tex/texmf-context
4 tex/texmf-cache

optional:

1 tex/texmf-local
2 tex/texmf-fonts
3 tex/texmf-project
4 tex/texmf-modules

The repository

The contextgarden github repository:

- 1 luametatex (also work)
- 2 context-distribution-fonts (also math companions)
- 3 context (macros and resources)

There are some more goodies there like manuals in many languages!

The binaries

We are lean and mean:

```
1 luametatex[.exe]  
2 mtxrun  -> luametatex[.exe]  
3 context -> luametatex[.exe]  
4 mtxrun.lua  
5 context.lua
```

One has to prepend the bin path to the PATH variable.

The installer

It uses:

```
1 <website>/texmf.zip  
2 <website>/texmf-context.zip  
3 <website>/context-<platform>.zip
```

when installing fresh and:

```
1 <website>/tex/texmf-<platform>/bin  
2 <website>/tex/texmf  
3 <website>/tex/texmf-context
```

when updating, using hashes in file databases (tma files).

Unsupported platforms

You need to:

- download files and create tree
- compile LuaMetaT_EX binary
- populate the binary path (see before)

Note: During the meeting Riviera tested this on linux phone and got it done.

Hosting installer

Self hosting is possible. One has to:

- setup the trees (also put `installation.pdf` there)
- create zips for every subtree
- run `mtxrun --script install --identify`
- set up a web server (next page)

Note: Taco will look into this now that the garden runs on the ntg server.

Webserver (e.g. nginx)

```
worker_processes auto ;
error_log  /var/log/nginx.error.log error ;
events {
    worker_connections  1024;
}
http {
    include                  mime.types ;
    default_type            application/octet-stream ;
    sendfile                 on ;
    keepalive_timeout        65 ;
    server_names_hash_bucket_size 64 ;
# access_log              /var/log/nginx.access.log ;
server {
    server_name lmtx.contextgarden.net ;
    location /install-lmtx/ {
        rewrite    ^/install-lmtx/(.*)$ /$1 ;
        add_header Access-Control-Allow-Origin "*" ;
        root       /data/websites/install-lmtx/ ;
        index     index.html index.htm ;
        autoindex  off ;
        break ;
    }
    listen 80 ;
}
}
```

Modules

We have an installer for that. Organizing and managing them on thw Wiki and ctan is work in progress (Taco and Hraban).

Note: More about this (and modules in general) by Hraban and Wolfgang in their talks.