Server & Distribution update

Mojca Miklavec, the 5th ConTEXt meeting

Server

- ▶ We have an "old" server running (ctan.ijs.si) with CTAN and W32TEX mirrors.
- ▶ We will move everything (except for wiki & live) to new server soon
- ▶ QUESTION: **Do we need email or mailing lists? (context.si?)**

Parts

Taco's server

► http://**wiki|sandbox**.contextgarden.net
► http://**live**.contextgarden.net
► http://**modules**.contextgarden.net

Discontinued

► http://**ctanmirror**.contextgarden.net
► http://**fun**.contextgarden.net (a static page by patrick)

Just links

► http://**news**.contextgarden.net (wordpress.com; do we need a new one?)
► http://**texshow**.contextgarden.net (wiki; I would like to see it split)

Replaced

- http://**source**.contextgarden.net (will be a git repository)
- http://**epen|bohinj**.contextgarden.net (photos) [?]
- http://**archive**.contextgarden.net [?]

Stays

- http://**minimals|standalone**.contextgarden.net (my main project)
- http://**dl**.contextgarden.net (just apache listing)
- http://**meeting**.contextgarden.net (needs new design)
- http://**group**.contextgarden.net
- http://**svn|websvn**.contextgarden.net

Minimals: Name

- ▶ When "minimals" move to new server, they will change.
- ▶ I wanted to make name change during that transition.
- ▶ But one day ... Taco just changed everything without my consent!
- ▶ What should be the original name?
  - > ConTEXt Standalone
  - > Standalone ConTEXt
  - > ConTEXt Distribution
  - > Standalone ConTEXt Distribution
- ▶ What about domain?
  - > http://standalone.contextgarden.net or
  - > http://distribution.contextgarden.net?

Problems

- ▶ I wanted to provide a quick and dirty solution for fast regular updates
- ▶ it started ad-hoc, code has never been improved so far
- ▶ spread around into countless tiny pieces
- ▶ there are kind-of backups, but if server crashes, we would need a while to put all the puzzle pieces again
- ▶ bus factor $1 + \varepsilon$

Status

- ▶ I decided to rewrite the scripts, so that I would be free to leave for arbitrary long vacations without having to worry that everyone will be lost in the mess of files
- ▶ The idea was to present the scripts last year
- ▶ Of course they are not finished yet
- ▶ Two parts:
  - > server-side scripts that create distribution (reorganize files)
  - > client-side scripts
- ▶ **question:**
  - > windows installer
  - > ConTEXt.app for Mac OS X

Server side

- ▶ TL, w32tex, pgf, ... pushed to git repositories
- ▶ all building blocks on the same place
- ▶ restructured trees
- ▶ three "branches" of stability

Three branches of stability

A. `alpha`
   experienced users kindly asked to use this one to catch bugs before they
   end up in `beta`
B. `beta (default)`
   recommended for most users
   updated once per day from `alpha` if basic tests pass
C. `current`
   updated manually every few months from `beta`

► Separate switch to get experimental ConTEXt from FTP,
   only in `alpha` and `beta`.
► No more dated versions (they made no sense).
► Each branch has its own copy of luatex and fonts.
► Allow manual patches in `current`.

Ways to get minimals

▶ `rsync`
   `--branch``=``alpha``/``beta``/``current`
▶ `zip`
   with current
▶ `git`
   each texmf-something in a separate repository
   QUESTION: **three branches or three repositories?**
   (I need help organizing merges)

Mirrors

▶ context.ijs.si / distribution.contextgarden.net (Jožef Stefan Institute)
▶ something.pragma-ade.com (Hans' server)
▶ metatex.org (Taco's server)

Trees

▶ `first-setup.sh` replaced with `context-installer.sh` and `context-updater.sh`

▶ the top lever `bin` and `tex` removed

▶ instead the following structure:
  > **texmf-install**: new
  > **texmf**, **texmf-context**, **texmf-*platformname***, **texmf-modules**, **texmf-cache**
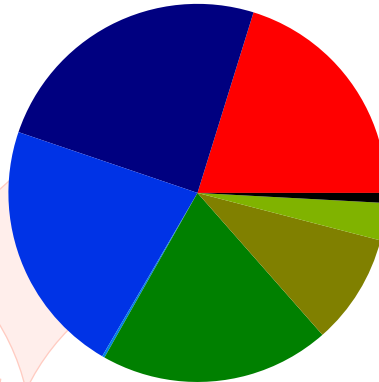 > **texmf-local**, **texmf-fonts**, **texmf-project**

Binaries

► LuaTEX and METAPOST compiled by different contributors from SVN.
► pdfTEX and X‡TEX no longer compiled (no response from developers)
► plan to compile pdftools

Binary split

► **always**
  LuaTEX
► **base**
  pdfTEX, X‡TEX, METAPOST, kpsewhich, bibtex
► **fonttools (optional)**
  ttf2afm, vftopl, showttf, ...
► **pdftools (optional)**
  pdfinfo, pdffonts, ...

Architectures

- ▶ **mswin**, (cygwin)
- ▶ linux, linux-64, linux-ppc, (linux-mipsel)
- ▶ osx-64, osx-intel, osx-ppc, (osx-universal)
- ▶ freebsd, freebsd-amd64
- ▶ kfreebsd-i386, kfreebsd-amd64
- ▶ solaris-intel, (solaris-sparc)

Any need to change names? Now would be the best moment.

Fonts

```
fonts | tds  | mkiv | <fontname>  |
      |      | mkii | base        |
      |      | all  | small(?)    |
      |      |      | medium      |
      |      |      | all         |
      +------+------+             |
      | data         |           |
```

▶ base: barebone minimum, just lm, stmaryrd, ...
▶ small
▶ medium: default
▶ all: everything
▶ fontname: for optional installs on top of base/small/medium

Options – Actions

- ▶ `--help`
- ▶ `--update --noupdate (default)`
- ▶ `--make --nomake (default)`
- ▶ `--delete (default) --keep`
  removes outdated files (but also user files in texmf folders)
- ▶ `--configure`
- ▶ `--clean`
  remove all the folders that don't belong to installation
- ▶ `--test`
  do a dry-run

Some questions

▶ At the moment texmf-cache and texmf-*platformname* both store temporary files. Should the two be reorganized?

▶ Should `mtxrun` `--generate` put lua and luc files next to ls-R?

▶ [TL] Should there be a system-wide mtxrun –generate?

Voting on names

► ConTEXt group members get a vote about names on Friday