EuroT_FX 2001

Directions for the TEXLive

September 24, 2001

Fabrice Popineau



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Supélec

TEX used to be difficult to install



Supélec

- TEX used to be difficult to install
- Precompiled distributions like emT_EX for dedicated platforms













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Supélec

- TEX used to be difficult to install
- Precompiled distributions like emTEX for dedicated platforms
- Web2C for Unix, but portable to Amiga, VMS, DOS, Win32









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- Web2C gave birth to the teTeX distribution, complete and easy to use and easy to install









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- Standardization of the TDS (TEX Directory Structure)



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- Precompiled distributions like emTEX for dedicated platforms
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- Web2C gave birth to the teTeX distribution, complete and easy to use and easy to install
- Great and greater number of T_EX macros packages on CTAN
- Standardization of the TDS (TEX Directory Structure)
- Time to build the first multi-platform, ready-to-use T_EX distribution.

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First version in 1996, headed by *Sebastian Rahtz* (many thanks to him!)



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- First version in 1996, headed by *Sebastian Rahtz* (many thanks to him!)
- TEX distributed on a CD-Rom



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- First version in 1996, headed by *Sebastian Rahtz* (many thanks to him!)
- T_EX distributed on a CD-Rom
- □ Directly usable projection of the T_EX related software available on the CTAN



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- First version in 1996, headed by *Sebastian Rahtz* (many thanks to him!)
- T_EX distributed on a CD-Rom
- ☑ Directly usable projection of the TEX related software available on the CTAN
- The TEX software is usable without any prior installation and simple to setup if/when convinced



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- First version in 1996, headed by *Sebastian Rahtz* (many thanks to him!)
- T_EX distributed on a CD-Rom
- ➡ Directly usable projection of the T_EX related software available on the CTAN
- The TEX software is usable without any prior installation and simple to setup if/when convinced
- How to present the user with all these 40000 files?



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What's new in the 6th edition?

New structured description files



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- New structured description files
- New layout for the packages



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- New structured description files
- New layout for the packages
- New handling of language.dat



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- New structured description files
- New layout for the packages
- New handling of language.dat



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- New structured description files
- New layout for the packages
- New handling of language.dat
- All packages up to date



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CVS-like system : Perforce



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- CVS-like system : Perforce
- http://www.perforce.co.uk/



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- CVS-like system : Perforce
- http://www.perforce.co.uk/
- Clients for Mac, Unix, Win32



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- CVS-like system : Perforce
- http://www.perforce.co.uk/
- Clients for Mac, Unix, Win32
- Servers for Win32 and Unix



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- CVS-like system : Perforce
- http://www.perforce.co.uk/
- Clients for Mac, Unix, Win32
- Servers for Win32 and Unix
- Server licence donated to the TeXLive project



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- http://www.perforce.co.uk/
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- Servers for Win32 and Unix
- Server licence donated to the TeXLive project
- Repository handled by http://texlive.dante.de



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The repository machine has access to the Dante CTAN ftp site





- The repository machine has access to the Dante CTAN ftp site
- Sebastian Rahtz has written some Perl script that will install most of the CTAN TEX packages right to their final location in the repository tree
- Kaja Christiansen runs the compilations for all architectures but Linux and Win32



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- LUGS contribute to the documentation



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- Sebastian Rahtz builds the documentation, ISO images and ensures the consistency



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- Sebastian Rahtz has written some Perl script that will install most of the CTAN TEX packages right to their final location in the repository tree
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- LUGS contribute to the documentation
- Sebastian Rahtz builds the documentation, ISO images and ensures the consistency
- Intermediate images available from http://www.tug.
 org/texlive/tlprod/Images/



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TPM: TEX Package Management



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- **TPM**: TEX Package Management
- *☞ RDF* format, ie. XML application



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- **TPM**: TEX Package Management
- **RDF** format, ie. XML application
- RDF = Resource Description Framework



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- **TPM**: TEX Package Management
- **RDF** format, ie. XML application
- RDF = Resource Description Framework
- RDF based on the *OAV* model: Object, Attribute, Value



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- TPM: TEX Package Management
- **RDF** format, ie. XML application
- RDF = Resource Description Framework
- RDF based on the *OAV* model: Object, Attribute, Value
- RDF use for managing software packages: describing information about some URL



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- TPM: TEX Package Management
- **RDF** format, ie. XML application
- RDF = Resource Description Framework
- RDF based on the *OAV* model: Object, Attribute, Value
- RDF use for managing software packages: describing information about some URL
- Simple use of the RDF formal model, but always good to work with a consistent frame.



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The whole set has been split in *collections* and *packages*





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- The whole set has been split in *collections* and *packages*
- Not a tree data structure, but a graph data structure



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- The whole set has been split in *collections* and *packages*
- Not a tree data structure, but a graph data structure
- Almost all of the free T_EX macros available on the CTAN repository



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Close

- The whole set has been split in *collections* and *packages*
- Not a tree data structure, but a graph data structure
- Almost all of the free T_EX macros available on the CTAN repository
- About 240 (a bit more for the Win32 platform) programs and scripts from the Web2C/teTEX distribution augmented by bonus programs



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- The whole set has been split in *collections* and *packages*
- Not a tree data structure, but a graph data structure
- Almost all of the free T_EX macros available on the CTAN repository
- About 240 (a bit more for the Win32 platform) programs and scripts from the Web2C/teTEX distribution augmented by bonus programs
- Net result : about 50 collections and 750 packages



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☞ Information about the component itself: name, date, version ...



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- ☞ Information about the component itself: name, date, version ...
- File lists:





- Information about the component itself: name, date, version ...
- File lists:
 - bin files: tagged for the target architecture



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- Information about the component itself: name, date, version ...
- File lists:
 - bin files: tagged for the target architecture
 - run files: used by the T_EX system and architecture independent



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- Information about the component itself: name, date, version ...
- File lists:
 - bin files: tagged for the target architecture
 - run files: used by the T_EX system and architecture independent
 - source files: source files for the macros packages
 only



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- Information about the component itself: name, date, version ...
- File lists:
 - bin files: tagged for the target architecture
 - run files: used by the T_EX system and architecture independent
 - source files: source files for the macros packages only
 - doc files: documentation files accompanying the component



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- ☞ Information about the component itself: name, date, version ...
- File lists:
 - bin files: tagged for the target architecture
 - run files: used by the T_EX system and architecture independent
 - source files: source files for the macros packages
 only
 - doc files: documentation files accompanying the component
 - remote files: non free files (Win32 only)



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- Features:
 - Installation: install the files for the first time
 - Maintenance: add or upgrade (or remove?) components



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- Features:
 - Installation: install the files for the first time
 - Maintenance: add or upgrade (or remove?) components
 - Removal: remove everything
- Consistency needed, but enforcing it can be tricky



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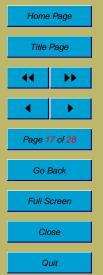
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Collections should not hold files, only require other collections or packages





- Collections should not hold files, only require other collections or packages
- Binaries should be made a separate list of packages and dependencies between binaries introduced



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- Collections should not hold files, only require other collections or packages
- Binaries should be made a separate list of packages and dependencies between binaries introduced
- Problem with run-files, doc-files and source-files



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- Collections should not hold files, only require other collections or packages
- Binaries should be made a separate list of packages and dependencies between binaries introduced
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- More general problem of maintaining descriptions: at least 3 sources:



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 - .tpm files



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 - Graham Williams Catalogue



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Better description of the system

- Collections should not hold files, only require other collections or packages
- Binaries should be made a separate list of packages and dependencies between binaries introduced
- Problem with run-files, doc-files and source-files
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 - texdoctk database



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 - Graham Williams Catalogue
 - texdoctk database

Something needs to be done there!



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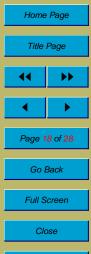
Configuration files: solved for language.dat ...





- Configuration files: solved for language.dat ...
- but what for the others: fmtutil.cnf, config.ps, pdftex.
 cfg?





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- but what for the others: fmtutil.cnf, config.ps, pdftex.
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- Is a portable installer the answer?





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 - Sebastian Rahtz has build RPM files for Debian



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- Or a platform dedicated one?
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 - Microsoft Installer for Win32
 - TPM files as a common denominator



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- Is a portable installer the answer?
- Or a platform dedicated one?
 - Sebastian Rahtz has build RPM files for Debian
 - Microsoft Installer for Win32
 - TPM files as a common denominator
 - TPM files could hold part of the installation instructions



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More granularity is needed



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- More granularity is needed
- Example: langgreek collection has 5 different setups for the Greek language ... which one is best?



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- More granularity is needed
- Example: langgreek collection has 5 different setups for the Greek language ... which one is best?
- Far too many packages, maybe some selection is needed



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- More granularity is needed
- Example: langgreek collection has 5 different setups for the Greek language ... which one is best?
- Far too many packages, maybe some selection is needed
- Different schemes should be offered: ConTTEXt users, basic LATEX users ...



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- More granularity is needed
- Example: langgreek collection has 5 different setups for the Greek language ... which one is best?
- Far too many packages, maybe some selection is needed
- ➡ Different schemes should be offered: ConTTEXt users, basic LATEX users ...
- We need small and simple T_EX distributions to make T_EX more popular.



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More testers! Thanks to the people currently involved, but we need more feedback



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- More testers! Thanks to the people currently involved, but we need more feedback
- Some enhanced web site, something with some of the Sourceforge features



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- More testers! Thanks to the people currently involved, but we need more feedback
- Some enhanced web site, something with some of the Sourceforge features
- People who want to be involved in cleaning and enhancing various parts of the factory



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- More testers! Thanks to the people currently involved, but we need more feedback
- Some enhanced web site, something with some of the Sourceforge features
- People who want to be involved in cleaning and enhancing various parts of the factory
- People who want to write better documentation



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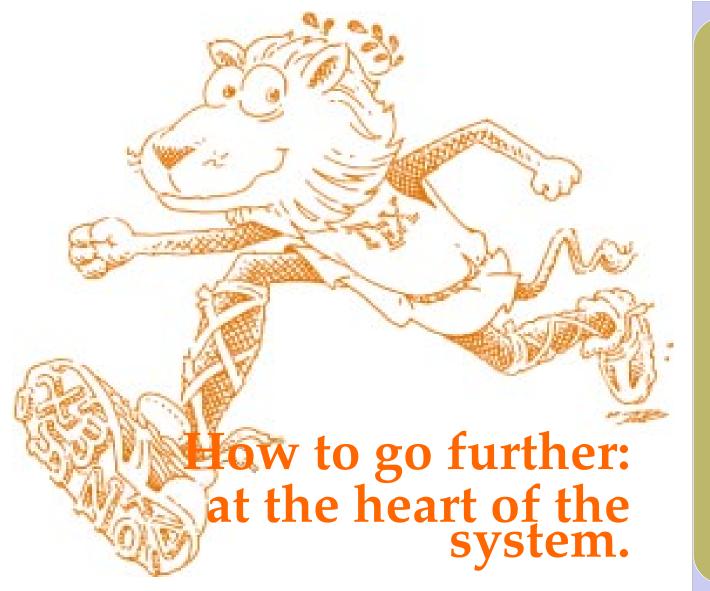


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Unforeseen usage of Web2C



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Unforeseen usage of Web2C

\write18 primitive largely used



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- \write18 primitive largely used
- Overhead in calling chains of Kpathsea linked programs: the library is initialized several times



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- \write18 primitive largely used
- Overhead in calling chains of Kpathsea linked programs: the library is initialized several times
- Situation even worse under NT/Win2K



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- \write18 primitive largely used
- Overhead in calling chains of Kpathsea linked programs: the library is initialized several times
- Situation even worse under NT/Win2K
- An experiment has been made: sharing these data structures decreased the run time.



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Kpathsea implements a common interface to paths across different platforms



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- Kpathsea implements a common interface to paths across different platforms
- URLs are only a new kind of paths





- Kpathsea implements a common interface to paths across different platforms
- URLs are only a new kind of paths
- We could imagine this kind of syntax:

```
\RequirePackage{tds:graphics.sty}
...
\font\foo=http://www.font.net/foo/bar/x
```



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- Kpathsea implements a common interface to paths across different platforms
- URLs are only a new kind of paths
- We could imagine this kind of syntax:

```
\RequirePackage{tds:graphics.sty}
...
\font\foo=http://www.font.net/foo/bar/x
```

- Requirements to make this feature effective:
 - Display the download progression



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- Kpathsea implements a common interface to paths across different platforms
- URLs are only a new kind of paths
- We could imagine this kind of syntax:

```
\RequirePackage{tds:graphics.sty}
...
\font\foo=http://www.font.net/foo/bar/x
```

- Requirements to make this feature effective:
 - Display the download progression
 - Caching file system LRU based



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Kpathsea and remote files

- Kpathsea implements a common interface to paths across different platforms
- URLs are only a new kind of paths
- We could imagine this kind of syntax:

```
\RequirePackage{tds:graphics.sty}
...
\font\foo=http://www.font.net/foo/bar/x
```

- Requirements to make this feature effective:
 - Display the download progression
 - Caching file system LRU based
 - Turn Kpathsea itself into a server?



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- Dynamic memory allocation
 - Format files need to be rebuild when arrays are enlarged



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- Dynamic memory allocation
 - Format files need to be rebuild when arrays are enlarged
 - Nothing to warn users in the documents typeset using an enlarged engine



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- Dynamic memory allocation
 - Format files need to be rebuild when arrays are enlarged
 - Nothing to warn users in the documents typeset using an enlarged engine
 - Not all arrays in the source code has been made extensible!



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- Simplify Kpathsea:
 - It should be simpler for Kpathsea to put files in the TDS tree



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- Simplify Kpathsea:
 - It should be simpler for Kpathsea to put files in the TDS tree
 - OK to keep a user defined procedure to place the files but ...



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- Simplify Kpathsea:
 - It should be simpler for Kpathsea to put files in the TDS tree
 - OK to keep a user defined procedure to place the files but ...
 - Kpathsea should provide its own default, simple way.



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- Simplify Kpathsea:
 - It should be simpler for Kpathsea to put files in the TDS tree
 - OK to keep a user defined procedure to place the files but ...
 - Kpathsea should provide its own default, simple way.
- Kpathsea as a server could monitor its file repository and mktexlsr would be obsoleted.



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- Simplify Kpathsea:
 - It should be simpler for Kpathsea to put files in the TDS tree
 - OK to keep a user defined procedure to place the files but ...
 - Kpathsea should provide its own default, simple way.
- Kpathsea as a server could monitor its file repository and mktexlsr would be obsoleted.



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- Sharing and reusing code: various routines duplicated
 - basic ones, like reading a line in a text file



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- Sharing and reusing code: various routines duplicated
 - basic ones, like reading a line in a text file
 - higher ones like reading a DVI file



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 - basic ones, like reading a line in a text file
 - higher ones like reading a DVI file
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Conclusion

Things have become smoother over the years



Supélec

Conclusion

- Things have become smoother over the years
- but (free) TEX is not yet up to the current standards of the plug-and-play software

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Conclusion

- Things have become smoother over the years
- but (free) T_EX is not yet up to the current standards of the plug-and-play software
- Any new T_EX project (NTS?) should take these issues into serious consideration.

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