



Perl Propaganda Abend

I never go out without my CPAN

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Dresden Perl Mongers**

Übersicht

- Was bisher geschah
- CPAN (Unix)
- PPM (Windows)

Was bisher geschah

- Perl-Bibliotheken in Form von Distributionen
- Standardverzeichnisstruktur
- Standardvorgehen

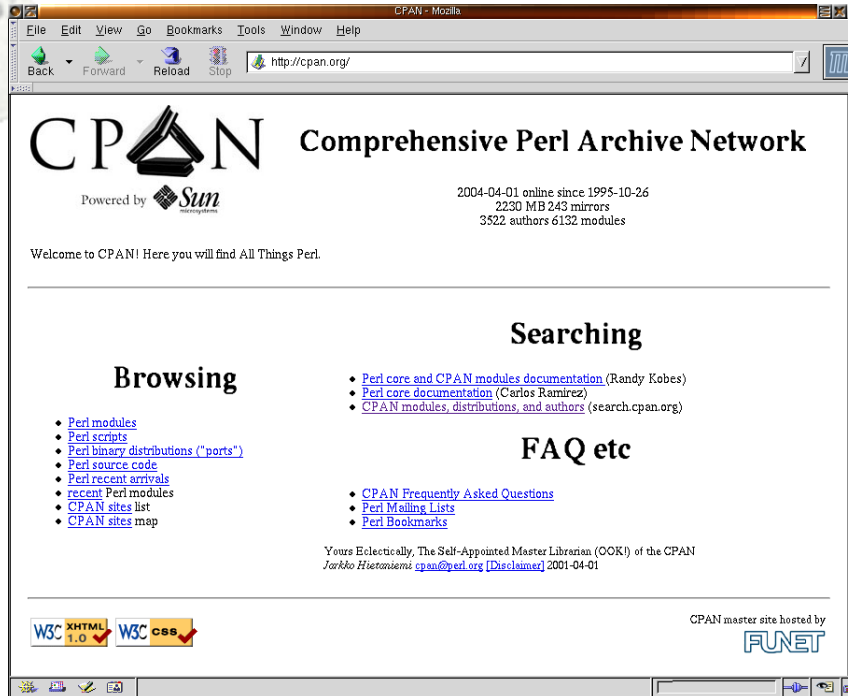
```
$ perl Build.PL  
$ ./Build  
$ ./Build test  
# ./Build install  
$ ./Build dist
```

- Freie Software: Weitergabe erwünscht

CPAN

- **Comprehensive Perl Archive Network**
- Webseite
 - ◆ <http://cpan.org>
 - ◆ <http://search.cpan.org>
- Archiv von freien Perl-Bibliotheken
- Upload-Mechanismus für Produzenten
- Download/Install-Mechanismus für Konsumenten
- ähnlich Debians *apt-get*

cpan.org




The screenshot shows a Mozilla browser window displaying the cpan.org website. The browser's address bar shows "http://cpan.org/". The website header features the CPAN logo (Comprehensive Perl Archive Network) and a Sun Microsystems logo with the text "Powered by". Below the header, it states "2004-04-01 online since 1995-10-26", "2230 MB/243 mirrors", and "3522 authors/6132 modules". A welcome message reads "Welcome to CPAN! Here you will find All Things Perl." The main content is divided into two columns. The left column is titled "Browsing" and lists links for Perl modules, scripts, binary distributions ("ports"), source code, recent arrivals, recent Perl modules, CPAN sites list, and CPAN sites map. The right column is titled "Searching" and lists links for Perl core and CPAN modules documentation, Perl core documentation, and CPAN modules, distributions, and authors. Below these is a section titled "FAQ etc" with links for CPAN Frequently Asked Questions, Perl Mailing Lists, and Perl Bookmarks. At the bottom of the page, there are logos for W3C XHTML 1.0 and W3C CSS, and text indicating the CPAN master site is hosted by FUNET. The browser's status bar at the bottom shows the system tray.

CPAN - Mozilla

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://cpan.org/

CPAN Comprehensive Perl Archive Network

Powered by  Sun

2004-04-01 online since 1995-10-26
2230 MB/243 mirrors
3522 authors/6132 modules

Welcome to CPAN! Here you will find All Things Perl.

Browsing

- [Perl modules](#)
- [Perl scripts](#)
- [Perl binary distributions \("ports"\)](#)
- [Perl source code](#)
- [Perl recent arrivals](#)
- [recent Perl modules](#)
- [CPAN sites list](#)
- [CPAN sites map](#)

Searching


- [Perl core and CPAN modules documentation](#) (Randy Kobes)
- [Perl core documentation](#) (Carlos Ramirez)
- [CPAN modules, distributions, and authors](#) (search.cpan.org)

FAQ etc

- [CPAN Frequently Asked Questions](#)
- [Perl Mailing Lists](#)
- [Perl Bookmarks](#)

Yours Eclectically, The Self-Appointed Master Librarian (OOK!) of the CPAN
Jarkko Hietaniemi cpan@perl.org [[Disclaimer](#)] 2001-04-01

W3C XHTML 1.0 W3C CSS

CPAN master site hosted by 

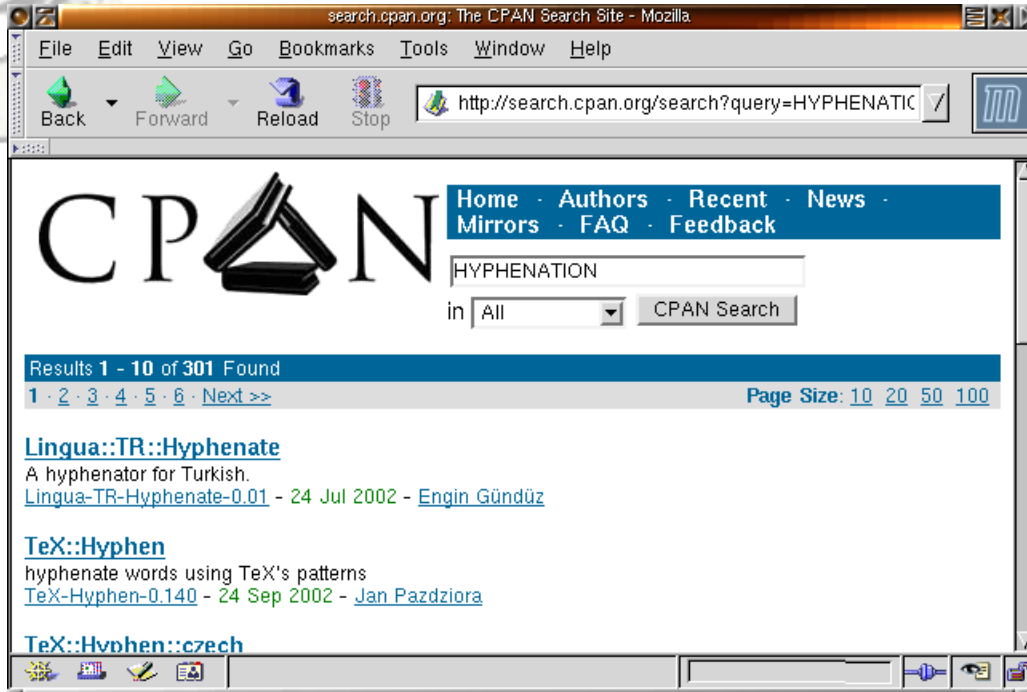
search.cpan.org



CPAN-Ablauf

- Suche etwas zu einem Thema
- Finde Modul
- Installiere Modul
- Nutze Modul

CPAN-Ablauf: Suchen



The screenshot shows a Mozilla browser window with the address bar containing `http://search.cpan.org/search?query=HYPHENATION`. The page title is "search.cpan.org: The CPAN Search Site - Mozilla". The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The navigation buttons are Back, Forward, Reload, and Stop. The main content area features the CPAN logo and a navigation menu with links for Home, Authors, Recent, News, Mirrors, FAQ, and Feedback. A search input field contains the text "HYPHENATION", and a dropdown menu is set to "All". A "CPAN Search" button is visible. Below the search bar, a blue banner indicates "Results 1 - 10 of 301 Found". A pagination bar shows links for 1, 2, 3, 4, 5, 6, and Next >>, along with "Page Size: 10 20 50 100". The search results list includes:

- [Lingua::TR::Hyphenate](#)
A hyphenator for Turkish.
[Lingua-TR-Hyphenate-0.01](#) - 24 Jul 2002 - [Engin Gündüz](#)
- [TeX::Hyphen](#)
hyphenate words using TeX's patterns
[TeX-Hyphen-0.140](#) - 24 Sep 2002 - [Jan Pazdziora](#)
- [TeX::Hvphen::czech](#)

The browser's status bar at the bottom shows various system icons and a taskbar.

CPAN-Ablauf: Finden, 1

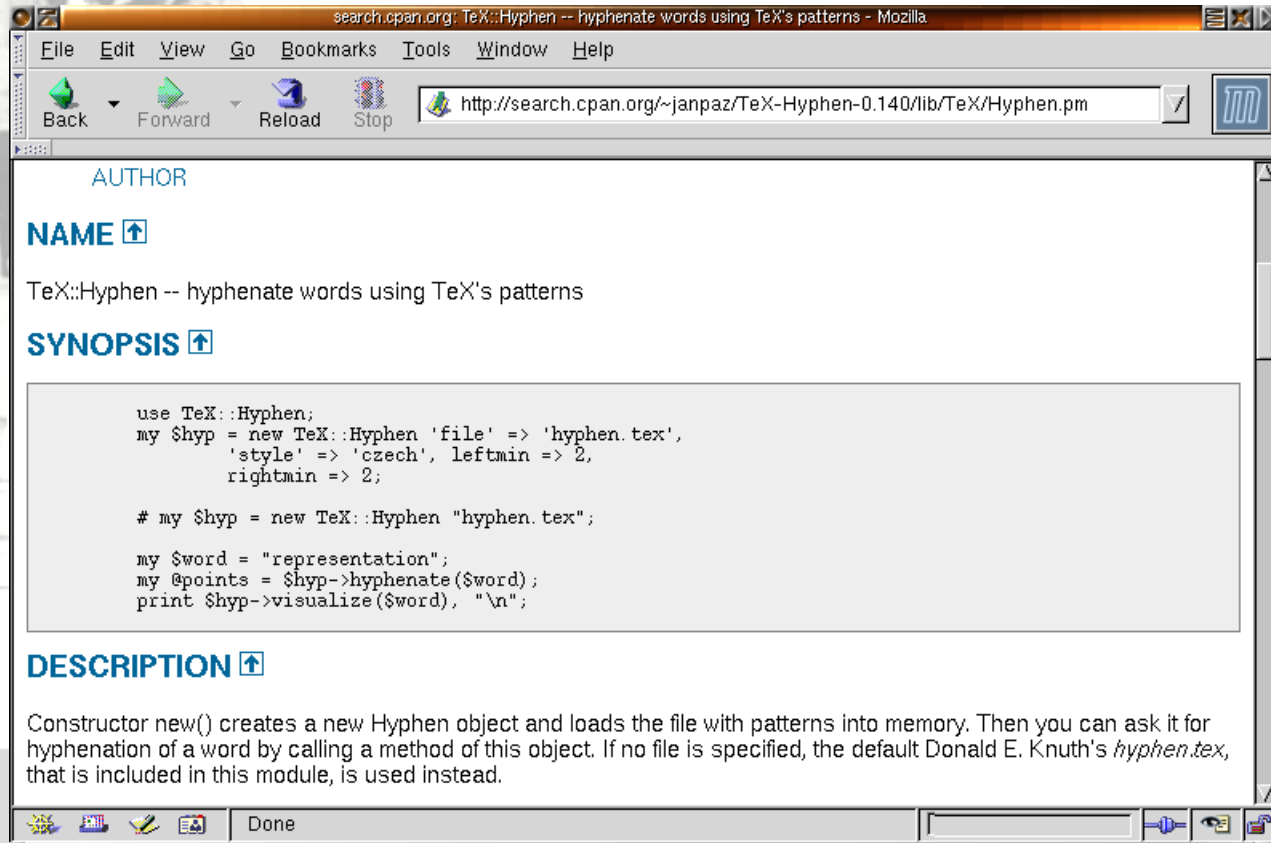
The screenshot shows a Mozilla browser window with the address bar containing the URL `http://search.cpan.org/~janpaz/TeX-Hyphen-0.140/`. The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The navigation buttons are Back, Forward, Reload, and Stop. The main content area displays the CPAN logo and a navigation menu with links for Home, Authors, Recent, News, Mirrors, FAQ, and Feedback. Below the logo is a search bar with a dropdown menu set to 'All' and a 'CPAN Search' button. The search results for 'Jan Pazdziora > TeX-Hyphen-0.140' are shown in a blue header. The main content area contains a table with the following information:

| TeX-Hyphen-0.140 | | |
|----------------------|---|---|
| This Release | TeX-Hyphen-0.140 | [Download] [Browse] 24 Sep 2002 |
| Links | [CPAN Testers] [View/Report Bugs] [Tools] | |
| CPAN Testers | PASS (7) | [View] |
| Rating | ☆☆☆☆☆ (0) | [Rate this distribution] |
| License | Unknown | |
| Special Files | Changes MANIFEST Makefile.PL README | |

Below the table is a section titled 'Modules' with the following entries:

| Module | Description | Version |
|-------------------------------------|--|---------|
| TeX::Hyphen | hyphenate words using TeX's patterns | 0.140 |
| TeX::Hyphen::czech | provides parsing routine for Czech patterns | 0.121 |
| TeX::Hyphen::german | provides parsing routine for German patterns | 0.121 |

CPAN-Ablauf: Finden, 2



The screenshot shows a Mozilla browser window with the address bar containing the URL `http://search.cpan.org/~janpaz/TeX-Hyphen-0.140/lib/TeX/Hyphen.pm`. The page content is as follows:

AUTHOR

NAME [↑](#)

TeX::Hyphen -- hyphenate words using TeX's patterns

SYNOPSIS [↑](#)

```
use TeX::Hyphen;
my $hyps = new TeX::Hyphen 'file' => 'hyphen.tex',
                    'style' => 'czech', leftmin => 2,
                    rightmin => 2;

# my $hyps = new TeX::Hyphen "hyphen.tex";

my $word = "representation";
my @points = $hyps->hyphenate($word);
print $hyps->visualize($word), "\n";
```

DESCRIPTION [↑](#)

Constructor `new()` creates a new Hyphen object and loads the file with patterns into memory. Then you can ask it for hyphenation of a word by calling a method of this object. If no file is specified, the default Donald E. Knuth's *hyphen.tex*, that is included in this module, is used instead.

CPAN-Ablauf: Installieren, 1

```
ROOT@localhost
root@renormalist:~> cpan
CPANPLUS::Shell::Default -- CPAN exploration and modules installation (v0.03)
*** Please report bugs to <cpanplus-bugs@lists.sourceforge.net>.
*** Using CPANPLUS::Backend v0.049. ReadLine support enabled.

CPAN Terminal> install TeX::Hyphen
Checking if source files are up to date
Retrieving /usr/local/cache/.cpanplus/mailrc.2.09.stored
Retrieving /usr/local/cache/.cpanplus/dslip.2.09.stored
Retrieving /usr/local/cache/.cpanplus/packages.2.09.stored
Installing: TeX::Hyphen
Trying to get /pub/CPAN/authors/id/J/JA/JANPAZ/TeX-Hyphen-0.140.tar.gz from ftp.
leo.org via ftp
Trying to get /pub/CPAN/authors/id/J/JA/JANPAZ/CHECKSUMS from ftp.leo.org via ft
p
Checksum for /usr/local/cache/.cpanplus/authors/id/J/JA/JANPAZ/TeX-Hyphen-0.140.
tar.gz OK
Untarring /usr/local/cache/.cpanplus/authors/id/J/JA/JANPAZ/TeX-Hyphen-0.140.tar
.gz
Extracting TeX-Hyphen-0.140/
Extracting TeX-Hyphen-0.140/Changes
Extracting TeX-Hyphen-0.140/MANIFEST
Extracting TeX-Hyphen-0.140/Makefile.PL
Extracting TeX-Hyphen-0.140/README
```

CPAN-Ablauf: Installieren, 2

```
ROOT@localhost
PERL_DL_NONLAZY=1 /usr/bin/perl "-MExtUtils::Command::MM" "-e" "test_harness(0,
'blib/lib', 'blib/arch')" t/*.t
t/hyphen....ok
t/xbench....
Will hyphenate file lib/TeX/Hyphen.pm (size 37360 bytes)
the code took: 0 wallclock secs ( 0.18 usr + 0.00 sys = 0.18 CPU)
ok
All tests successful.
Files=2, Tests=18, 1 wallclock secs ( 1.06 cusr + 0.03 csys = 1.09 CPU)
Running [/usr/bin/sudo /usr/bin/make install]...
Installing /usr/local/share/perl/5.8.3/TeX/Hyphen.pm
Installing /usr/local/share/perl/5.8.3/TeX/Hyphen/german.pm
Installing /usr/local/share/perl/5.8.3/TeX/Hyphen/czech.pm
Installing /usr/local/man/man3/TeX::Hyphen::german.3pm
Installing /usr/local/man/man3/TeX::Hyphen.3pm
Installing /usr/local/man/man3/TeX::Hyphen::czech.3pm
Writing /usr/local/lib/perl/5.8.3/auto/TeX/Hyphen/.packlist
Appending installation info to /usr/local/lib/perl/5.8.3/perllocal.pod
Successfully installed TeX::Hyphen
All modules installed successfully
CPAN Terminal>
Exiting CPANPLUS shell
Writing state information back to disk. This may take a little while.
root@renormalist:~> |
```

CPAN-Ablauf: Nutzen

- hyphenate.pl

```
#!/usr/bin/perl

use TeX::Hyphen;

my $hyp = new TeX::Hyphen
(
  'file'      => 'dehyphn.tex',
  'style'     => 'german'
);

my $word = "Representation";
print $hyp->visualize($word), "\n";
```

```
$ ./hyphenate.pl
Re-pre-sen-ta-ti-on
```

CPAN-Features

- Komplette, automatische Installation
 - ◆ Download
 - ◆ make, make test, make install
- mehrere Frontends
 - ◆ Readline
 - ◆ Curses
 - ◆ Tk
- Programmierbar via Backends
 - ◆ z.B. Installationskripte für eigene Produkte

Backend-Programmierung

- Paketsammlung für Projekt
- CPANPLUS API programmierbar

```
use CPANPLUS::Backend;
my $cpanp = new CPANPLUS::Backend
  (conf => {
    debug => 0, verbose => 1,
    flush => 1, prereqs => 1});
foreach my $modulename (qw(
    Set::Scalar
    AI::Categorizer
    # ...
    Cache::Cache
    Spreadsheet::ParseExcel
  ))
{
  my $module_obj = $cpanp->module_tree()->{$modulename};
  my $install_result = $module_obj->install;
}
```

PPM

- CPAN ist unixish
 - ◆ manche Module erfordern Compiler
 - ◆ Unix make != DOS make
- andere Lösung für ähnliche Sache: PPM
- PPM unter Windows verbreiteter
- **P**erl **P**ackage **M**anager
- z.B. in ActiveState's Windows-Perl-Distribution
- Repository von fertig compilierten Paketen
- aber: PPM nutzt nicht CPAN-Archiv

Schluß

