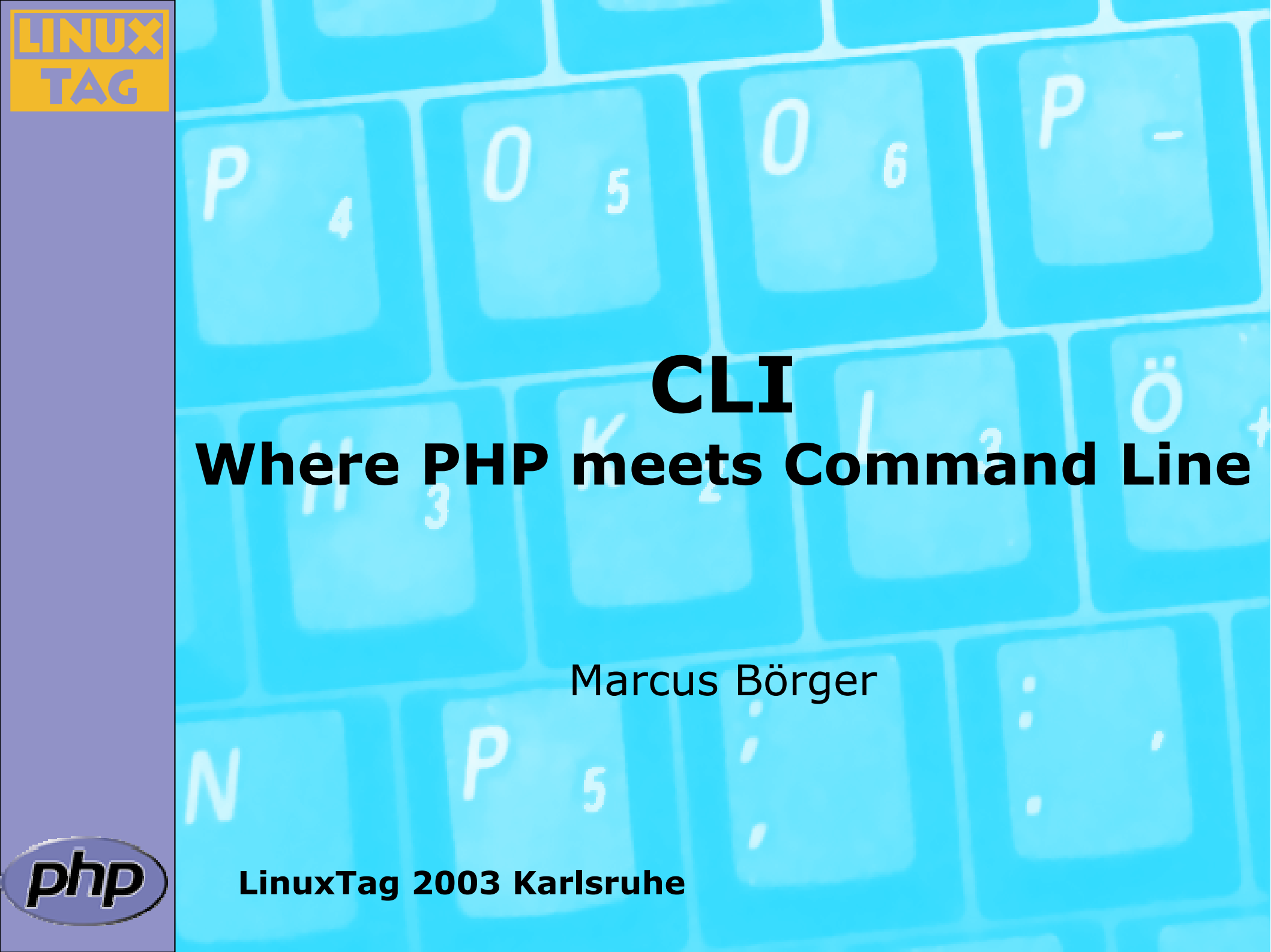

CLI
Where PHP meets Command Line

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LinuxTag 2003 Karlsruhe

History

- Developers: Edin Kadribasic, Marcus Börger

- Borrowed code from CGI
- First released with PHP 4.2
- Stable since PHP 4.3
- Manpage since PHP 4.3.2
- Capable of '--' switches since PHP 4.3.3
- More sophisticated switches in PHP 5.0.0

Comparing CLI and CGI

- Developed for usage on console

- No HTTP Headers
- Text format output for error messages
- Text format output for version and other information's
- Direct code execution with access a script
- Uses its own ini file if present: php-cli.ini

Execute code directly

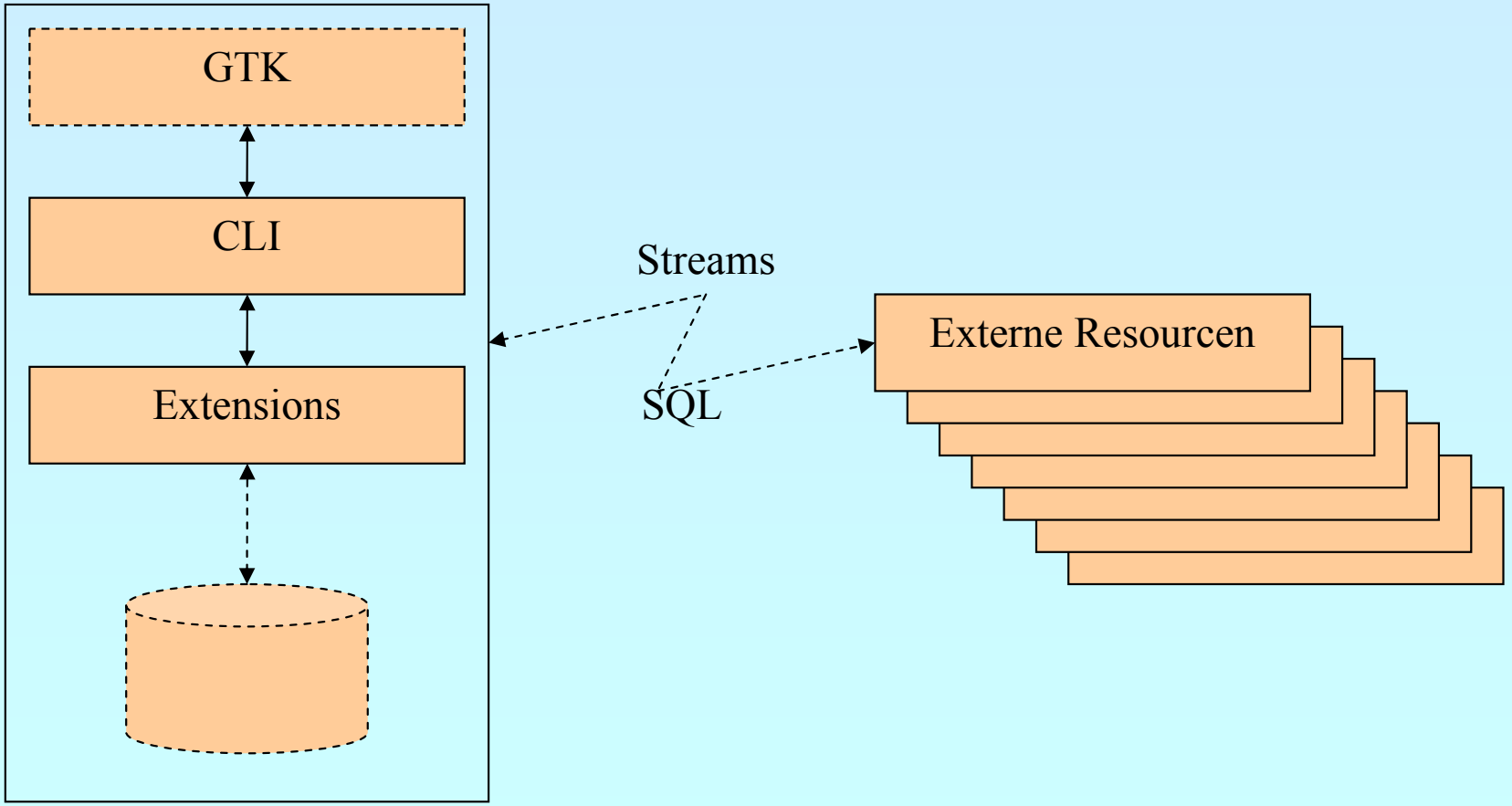
```
> php –r ’echo “hello world!”;’
hello world!
```

```
> php –r ’echo md5($argv[1]);’ – whatever
008c5926ca861023c1d2a36653fd88e2
```

More differences

- ☑ Simplified access to stdin, stdout, stderr
- ☑ Starts in quiet mode (-q)
- ☑ Does not change working directory
- ☑ $argc and $argv are always populated
- ☑ implicit_flush is alwazs on
- ☑ max_execution_time set unlimited

CLI Structure



Where to use it?

- Replaces several command line tools
- Access internal resources
- Access external resources
- Easy test PHP language details during development
- GUI applications with GTK

CLI modes

- Execute scriptes

php [*options*] [-f] *file* [[--] *args*...]

- Shebang support

```
#!php
<?php
    . . .
?>
```

CLI modes

- Execute standard input

php [*options*] -- [*args*...]

CLI modes

- Direct code execution

  php [*options*] –r *code* [[--] *args*...]

- Interactive mode

  php -a

CLI modes

- Line by line input processing

  php [-B *code*] –R *code* [-E *code*] [[--] *args*]

- Line by line input processing with scripts

  php [-B *code*] –F *code* [-E *code*] [[--] *args*]

Counting source lines

Try `find –regex '.*\.[ch]' –exec wc -l {} \;`

Try
```
for i in `find -regex '.*\.[ch]' `;do wc –l $i;done;
```

Do `find –regex '.*\.[ch]' | xargs wc –l`

Do
```
find –regex '.*\.[ch]' -exec wc –l {} \; |
        awk '{L=L+$1} END { print L }'
```

Do
```
find –regex '.*\.[ch]' |
        php –R '@$L+=count(file($argn));'
                -E 'echo "$L\n";'
```

CLI meets CVS

- Search for locally modified files

```
cvs –n up 2>/dev/null |
        awk ’/M\ / {print $2}’

cvs –n up 2>/dev/null |
        php –R ’ereg(“^M “,$argn) &&
                print(substr($argn,2)).“\n“;’
```

CLI meets CVS

- CVS clean

cvs up -C

```
cvs –n up 2>/dev/null |
        php –R ’ereg(“^[MA] “,$argn) &&
                system(“rm –f “.substr($argn,2));’
```

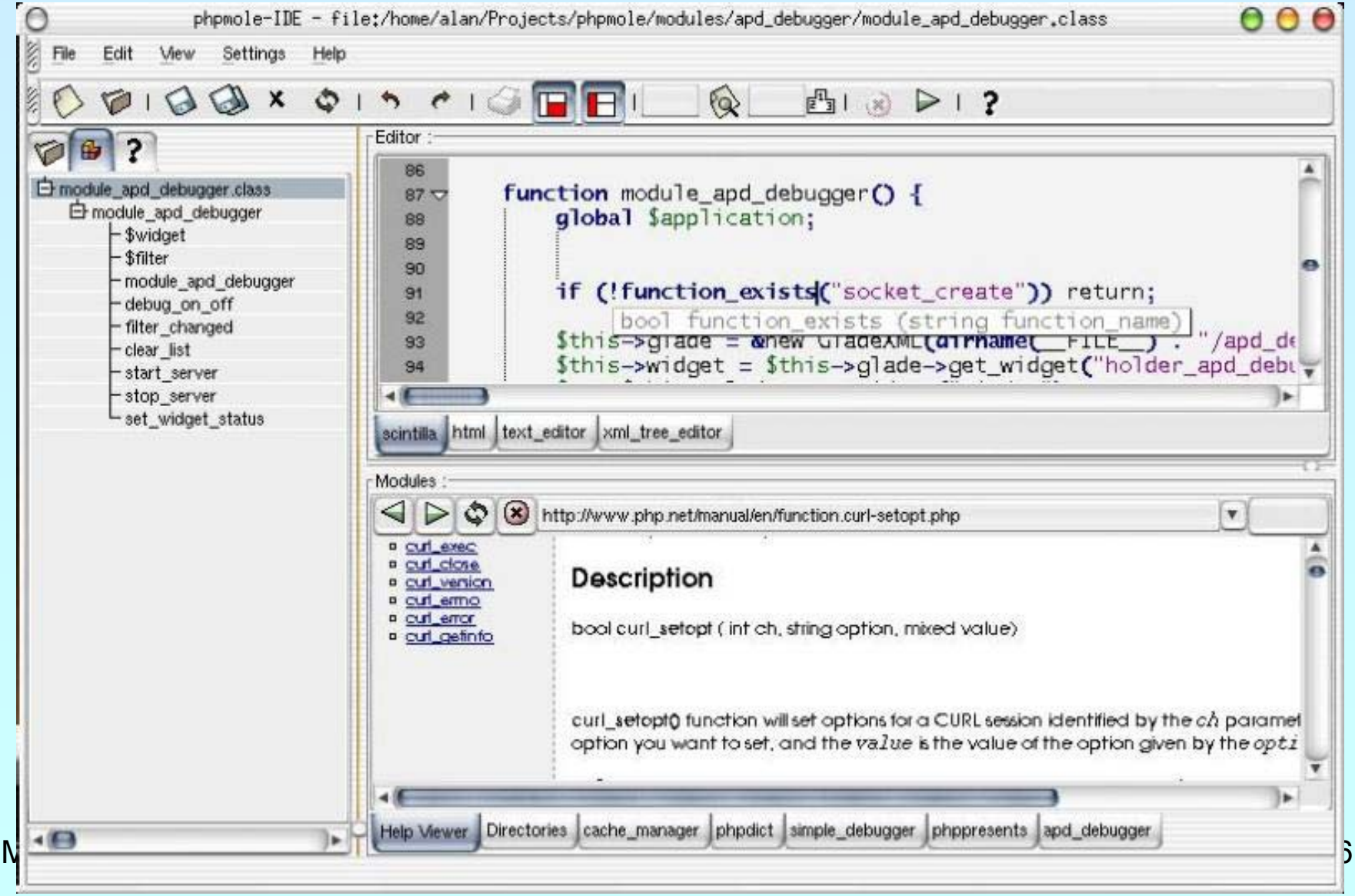
CLI and PHP5 ?

- New oo features provide new solutions

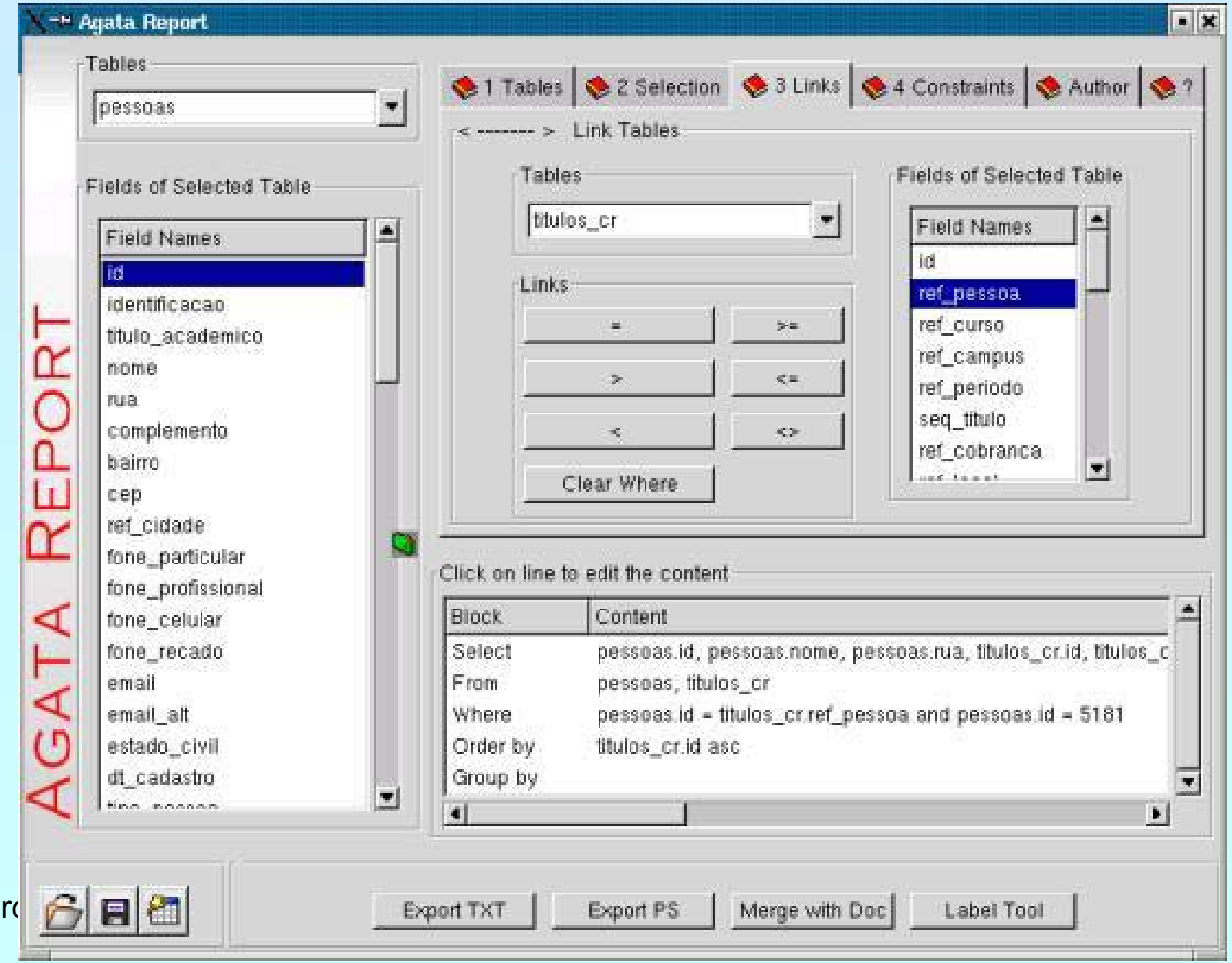
```
php –r ’foreach(new Dir($argv[1]) as $f)
                echo “$f\n“;’

php –r ’include “dba.inc“;
                $db=new dba($argv[1]);
                $db[$argv[2]=$argv[3];’
```

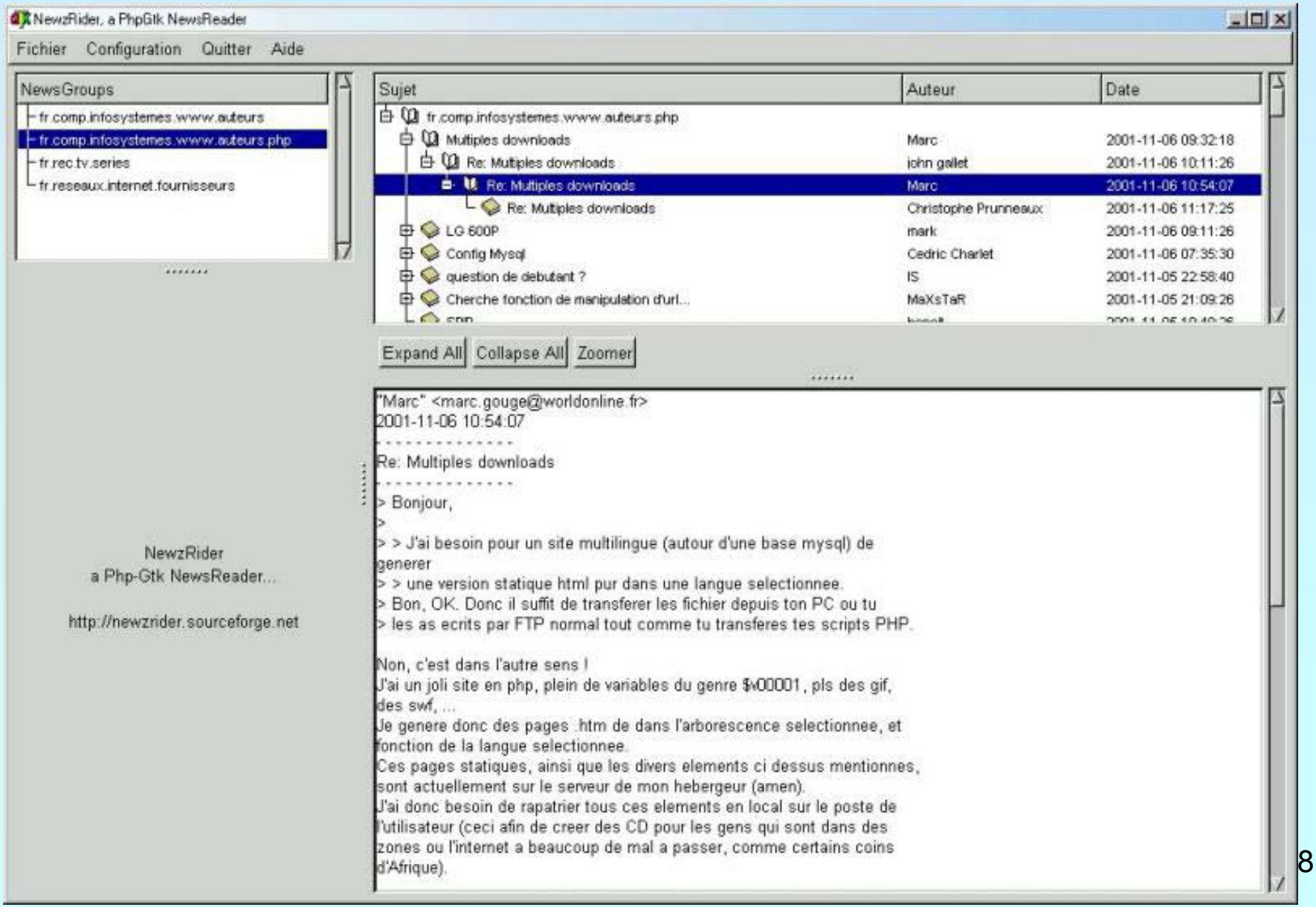
GTK: phpMole


phpmole-IDE - file:/home/alan/Projects/phpmole/modules/apd_debugger/module_apd_debugger.class
File Edit View Settings Help
Editor :
module_apd_debugger.class
module_apd_debugger
$widget
$filter
module_apd_debugger
debug_on_off
filter_changed
clear_list
start_server
stop_server
set_widget_status
function module_apd_debugger() {
global $application;
if (!function_exists("socket_create")) return;
bool function_exists (string function_name)
scintilla html text_editor xml_tree_editor
Modules :
http://www.php.net/manual/en/function.curl-setopt.php
curl_exec
curl_close
curl_version
curl_errno
curl_error
curl_getinfo
Description
bool curl_setopt (int ch, string option, mixed value)
curl_setopt() function will set options for a CURL session identified by the ch paramet
option you want to set, and the value is the value of the option given by the opti
Help Viewer Directories cache_manager phpdict simple_debugger phppresents apd_debugger

GTK: AgataReport



GTK: NewzRider



Resources

- ☑ man php
- ☑ http://www.php.net/features.commandline
- ☑ http://gtk.php.net