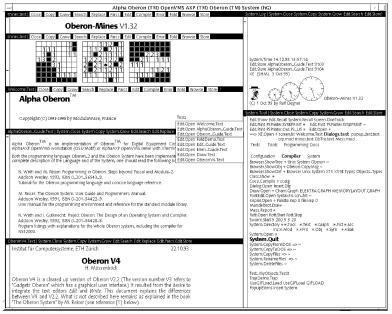
$abduco \ \& \ dvtm$ Session and Tiling Window Management for the Console

Marc André Tanner

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Acme

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TL;DR: What is this all about?

Provide a similiar working environment suitable for:

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- Framebuffer console
- Remote e.g. SSH/mosh sessions

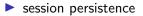
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abduco



dvtm

tiling window management for the console

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terminal multiplexer

Tiling window management

Optimally use available screen space

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- No overlapping windows
- Automatic window placement
- Minimal window decorations

dvtm - dynamic virtual terminal manager

```
From: Marc Andre Tanner <mat@brain-dump.org>
Date: Sat, 8 Dec 2007 13:29:30 +0100
To: dwm@suckless.org
Subject: [ANNOUNCE] dvtm - dynamic virtual terminal
manager - aka dwm for the console
```

Hi,

For some time I have been thinking about applying the concept of tiling window management to the console. As a result I have written dvtm, you can check it out here:

http://www.brain-dump.org/projects/dvtm/

Concepts shared with dwm

window management should be automatic and dynamic

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- master and stacking area
- tagging concept
- similar key bindings, MOD defaults to Ctrl-g
- 1-line statusbar (via a named pipe)
- configuration through config.def.h

Design Philosophy

Heavily influenced by suckless.org.

Focus on simplicity, clarity and frugality, minimal but useable, do one thing and do it well.

- dynamic window management for the console
- no internal copy mode (use \$EDITOR instead)
- no session support (see abduco)
- easily scriptable

dvtm - dynamic virtual terminal manager

Single modifier key, prefix for all commands

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Denoted by \$MOD, defaults to $\langle C-g \rangle$

dvtm – dynamic virtual terminal manager

Single modifier key, prefix for all commands

Denoted by \$MOD, defaults to $\langle C-g \rangle$

Can be changed at runtime:

- dvtm -m ^a ($\langle C-a \rangle$ as in screen)
- dvtm -m ^b ((C-b) as in tmux)

Use \$MOD-\$MOD to send the \$MOD key.

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dvtm - window lifecycle

- dvtm process1 process2 ...
- \$MOD-c create new window
- \$MOD-C create new window with same working directory¹
- \$MOD-x-x close window

Closing the last window, terminates dvtm.

dvtm - focus windows

- \$MOD-j focus next
- \$MOD-k focus previous
- \$MOD-J focus next non-minimized
- \$MOD-K focus previous non-minimized
- \$MOD-[0..9] focus n-th window
- ▶ MOD-(Tab) focus previously selected window

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dvtm - master and stacking area

Available space is split into two areas:

master: the primary window(s)

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stacking: the other windows

dvtm – change master area

▶ \$MOD-⟨Enter⟩ swap current window to/from master area

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dvtm – change master area

▶ MOD-(Enter) swap current window to/from master area

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- \$MOD-1 increase master area width
- \$MOD-h decrease master area width

dvtm – change master area

- \$MOD-(Enter) swap current window to/from master area
- \$MOD-1 increase master area width
- \$MOD-h decrease master area width
- \$MOD-i increase number of windows in master area
- \$MOD-d decrease number of windows in master area

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dvtm – minimize/maximize windows

▶ \$MOD-. toggle minimization of current window

\$MOD-m maximize current window

dvtm – layouts

A way to place/display windows.

 $MOD-\langle Space \rangle$ cycles through layouts.

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A way to place/display windows.

MOD-(Space) cycles through layouts.

\$MOD-f Vertical stack (default)

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- ► \$MOD-ъ Bottom stack
- ▶ \$MOD-g Grid
- ▶ \$MOD-m Monocle/fullscreen

dvtm – layouts

A way to place/display windows.

MOD-(Space) cycles through layouts.

- \$MOD-f Vertical stack (default)
- ▶ \$MOD-ъ Bottom stack
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Also included in source tarball, but disabled by default:

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- Top stack
- Vertical stack
- Fibonacci: spiral & dwindle

dvtm – tagging concept

Controls which windows are displayed.

A super set of the workspace functionality.



dvtm – tagging concept

Controls which windows are displayed.

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A static set of $tags = \{tag1, tag2, \dots, tagN\}$

Every window is tagged with at least one tag.

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dvtm – tagging concept

Controls which windows are displayed.

A super set of the workspace functionality.

A static set of $tags = \{tag1, tag2, \dots, tagN\}$

Every window is tagged with at least one tag.

A view is a subset of tags i.e. (views \subseteq tags)

A view displays all windows having at least one of the tags.

dvtm - tagging modifiing the view

View tag: display all windows with tagN, "change workspace"
\$MOD-v-N

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dvtm - tagging modifiing the view

View tag: display all windows with tagN, "change workspace"
\$MOD-v-N

Toggle tag of view: add/remove all windows with tagN♦MOD-V-N

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dvtm – tagging windows

Tag window: apply tagN to focused window, "move window to workspace"





Tag window: apply tagN to focused window, "move window to workspace"

► \$MOD-t-N

Toggle tag of window: add/remove *tagN* from focused window ► \$MOD-T-N

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dvtm – miscellaneous tagging

MOD-v-(Tab) switch to previously selected tags

\$MOD-0 view all tags / windows



dvtm – status bar

Hidden by default.

Displays a single line of text, read from a FIFO:

dvtm – status bar

Hidden by default.

Displays a single line of text, read from a FIFO:

- ▶ mkfifo -m 600 dvtm.status
- dvtm -s dvtm.status
- echo "your fancy status" > dvtm.status

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See dvtm-status(1) for an extended example

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See dvtm-status(1) for an extended example

\$MOD-s toggles status bar

\$MOD-S cylces position (top, bottom)

Enhances terminals like st(1) with a scroll back buffer.

- Set history size: dvtm -h lines
- \blacktriangleright (S-PageUp) or \$MOD+(PageUp) scroll up
- \langle S-PageDown \rangle or $MOD+\langle$ PageDown \rangle scroll down

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dvtm - keyboard multiplexing

Keypresses are forwarded to all visible windows.

Useful to interactively manage multiple servers.

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\$MOD-a toggles multiplexing mode

dvtm - copymode

Copy and paste text across windows.

uses your \$EDITOR as interactive filter

- pipes scroll back buffer history to editor
- keeps whatever the editor writes to stdout in a register
- dvtm-editor(1) makes it work for ordinary \$EDITORs

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- \$MOD-e enter copy mode
- \$MOD-p paste previously copied text

Xterm terminal escape sequence extension:

\$ printf "\033]0;%s\007" "Your title here!"

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See also dvtm-title(1)

Titlebar (or tagbar) indication that "something" occured in the window.

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Triggered by ASCII bell character \a.

dvtm – mouse support

Click to focus window.

Double click to focus and toggle maximization.

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Middle click to zoom.

Rright click to minimize.

dvtm – scripting capabilities

Control dvtm from other processes.

Reads commands from a named pipe.



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Control dvtm from other processes.

Reads commands from a named pipe.

- dvtm -c dvtm-command.fifo
- echo "create vis" > dvtm-command.fifo

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\$DVTM_CMD_FIFO exposed to child processes

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\$DVTM_CMD_FIFO exposed to child processes

Only unidirectional communication.

Still limited and experimental.

abduco: session handling

Provides session persistence

terminate stuck SSH sessions (Enter) ~ .

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ssh user@host -t abduco -A session

abduco: session handling

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- Simple client/server architecture
- Communication over Unix domain socket

abduco: session handling

Provides session persistence

- terminate stuck SSH sessions $\langle \texttt{Enter} \rangle$ ~ .
- ssh user@host -t abduco -A session

- Simple client/server architecture
- Communication over Unix domain socket

- Operates on the raw I/O stream
- Does not attempt to interpret or preserve terminal state

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abduco: basic usage

Create session (and attach)

▶ abduco -c demo



abduco: basic usage

Create session (and attach)

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▶ abduco -c demo

Detach session



abduco: basic usage

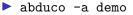
Create session (and attach)

▶ abduco -c demo

Detach session



Reattach session



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abduco: session list

\$ abduco
Active sessions (on host thinkpad)
* Sat 2018-06-16 20:40:36 27492 connected
Sat 2018-06-16 20:39:49 27414 inactive
+ Sat 2018-06-16 20:40:13 27487 dead

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abduco: session list

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Column meaning:

- 1. Status, * active / client connected, + terminated
- 2. Last activity (mtime of socket)
- 3. Server PID
- 4. Session name

No output buffering, but exit status is recorded.

\$ abduco -n demo false && abduco -a demo abduco: demo: session terminated with exit status 1

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abduco: shared sessions

Multiple simultaneously connected clients.

- Most recently non-readonly client dictates pty size
- Read only sessions (input is discarded)
- For security purposes, use socat(1)

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abduco: resize handling

Most recently non-readonly client dictates pty(7) size.

Delivers SIGWINCH to underlying process.

abduco: socket recreation

In case session socket disappears:

- ▶ pgrep -P 1 abduco
- ▶ lsof -p \$PID | grep unix
- kill -USR1 \$PID
- cp /proc/\$PID/exe abduco

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./abduco

abduco: environment variables

Command to run, if omitted:

\$ABDUCO_CMD defaults to dvtm

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Current session information:

- \$ABDUCO_SESSION
- \$ABDUCO_SOCKET

Limitations & a plan to fix them

Terminal state not preserved across sessions

Possible fix:

- 1. session attached
- 2. abduco sends signal to supervised application (i.e. dvtm)

3. dvtm restores terminal state

Future Plans²

Find more time for maintenance

Preserve terminal state across sessions

Improve terminal emulation

- 24 bit color support
- dvtm \approx dwm + st ?
- dvtm \approx libvterm + libtickit ?

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²In no particular order, no timeline given.

Future Plans

- Improve scripting capabilities, allow bidirectional communication via a unix domain socket
 - \$ echo cmd | socat UNIX-CONNECT:/tmp/socket | doit

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Provide Lua API?

Resolve abduco license controversy

Conclusion

Does not conflate session and window managment.

Allthough raw edges, conceptually sound.

Non-bloated solution which works (at least for my usecase).

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Questions?

https://github.com/martanne/abduco https://github.com/martanne/dvtm

git://repo.or.cz/abduco.git
git://repo.or.cz/dvtm.git

mat@brain-dump.org

#vis-editor on freenode

Happy Hacking!

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