How Can We Write Large Programs Without Thinking?

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Neural Abstract Machines & Program Induction Workshop

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23 🛞 🥝 Press 7 for help 🔰		1 H:/bin/bash		1 H!/bin/bash	3	axelrc	group-	logrotate.d/	porred	16:85-82-21, 28:31
(up a dir)		<pre>2 D 3 chwod +x -/.config/herbstluftwm/t -/bin/t -/.thewes/kresources-geni</pre>			<pre>discharge() { acpilgrep Discharging ;} 5 level() { acpilged 's/.hing, \(.h\)2.h/\1/' ;}</pre>	bash.bash_logout bash.bashrc bash_completion.d/	prob.d/ prob.d/	Haching-id	parred DLD parred pacnew	zudoprz.twp* zword.conf zwzetl.conf
bin/ -> /home/ninjaaron/	<pre>4 limit=\$1 Hsets how wany pictures per page 5 page=1 6 dist</pre>	<pre>9 conf="\$HOME/.config/herbstluftwm" 5 killall herbstclient</pre>	" pic="\$1" 5 [-n "\$2"] & scale="\$2" scale=250	Y 5 N get user configs	<pre>second provide and a second provide a second provide</pre>	binfet.d/ ca-certificates/ ca-certificates.conf	grhadow, pacnow grapi wech.comf	Handb.con/ Hdadh.con/	pkc/l/ pkc/l/ pm/ oplkit=1/	rystend/ toxms// tmosiles.d/
ant/	0 01(* 040) 7 totalPages=\$((\$(ls/wc -1) / \$limit + 1)) 4 TFS=*	7 HFunction hc() { herbstclient "\$2", }	convert -scale Socie "bic" "toam"-thush one	7 DAENU=\${DAENU-daenu}	1 topping () (colord.conf conf.d/ conks/	hort.conf	sise types ske2fs.conf skinitcoip.conf	ppp/	truzted-key.key udev/ vdeau wrapper.cfa
net/ pic/	g =	10 hc emit_hook reload	10 exit	<pre>9 PATH="sPATH:sHORE/bin" 10 cachedir=s(XOG_CACHE_HORE:-"sHORE/.cache"}</pre>	11 [-a \$sleepless] 66 rm \$sleepless II touch \$sleepless 12 }	aren.daily/ aren.daily/	ifplugd/	skinitopie.d/	protocol/ pulze/	viane Ngotre
<pre>src/ bitocra/ dotfiles/</pre>	11 mav() 1 12 [\$page -gt 1] %% echo "{br> < previ 13 previ bravel brav	12 H defaults 1-		11 1F L -0 "Scachebir" J, chen 12 caches\$cachedir/dwenu_run	14 idle() { 15	aron.wookly?	proute2/	notd npd.conf	re_mapr.cfg	upa_ruppl:cant/
+ bin/ alaret	14 [\$page -eq \$totalPages] && echo " << first page 15 echo " mext page > br>" >> pic	19 source +/.themes/Stheme 15 pad=5{pad=11 1 1 1}	2 H git aliașes	14 cache=\$HORE/.dwenu_cache H iF no xdg dir, Fall back to dotFile I 15 Fi	16 sudo pa-suspend-hybrid 17 }	dbur-1/ de fault/	rean.conf zzup java-7-openjdk/	Ruttra Ruttra Ruttra.dist	request-key.conf	xinotd.d/ xel/ yapurtra
autosus*		16 hc set frame_border_active_color \${frame_border_active_color-\$fg_ci 17 hc set frame_bg_active_color \${frame_bg_active_color-\$bg_color}	alias g='git'	16 17 cmd=\$(10 low() f	dheped.conf drire	laptop-mode/ ld.ro.cache	notconfig notconfig	rpc rpc	\$2h7
baraction*	19 may 19 may 20 Bloop that creates pages with Slimit pics plus links at top and bottom (10 hc set Frame_bg_transparent \${Frame_bg_transparent-1} 20 hc set frame_bg_transparent \${Frame_bg_transparent-1} 20 hc set window border normal color \$fwindow border normal color-\$be	f pullin of SDOT	19 Ifs: 20 if stest -der -n "Scache" SPATH: then	<pre>21 while [\$(level) -gt 5] [-z "\$(discharge)"], de 22 sleep 50</pre>	fb.modes /etc> cd /usr/share aclocal/	ld.ze.conf.d/	nzzwitch.conf	zervicez	
brest -> /home/nil bst	21 For pic in *{jpg.png.gif.svg}.do 22 Horeates the actual image tags	<pre>21 hc set window_border_active_color \${window_border_active_color-\$Fg) 22 hc set window_border_width \${window_border_width-1}</pre>	d git add '*' 9 git connit "SI"	21 echo -e ".\n\$(stest -Flx \$PATH sort -u)\n\$(ls)" tee "\$cach 22 else	23 done 24 zenitywarningtext "Battery very low."	aclocal-1.13/ also/ application-registry	0 t-gui/ 0 tk/ 0 tk/	60 C	-prober/	
colortest* crap*	<pre>discho "<ing src='\""\$dir"/"\$pic"\"'></ing>> pi ((count++)) </pre>	23 24 hc set default_frame_layout 3 25 hc set forces follows shift 1	10 git push origin master 11)	23 cat "\$cache" 24 fi 25 bidonfond	25 sleep 10m 26 done	applications/ apr-1/ autoconf/	plib-2.0/		ucontrol/	
F#t install-grubt	26 test \$count -ge \$limit 80 { 27 nav	26 hc set raise_on_focus 1 27 hc set always_show_frame 0	13 álias s='sudo'	26 27 N if the user selects a directory, go there and execute brws.	28 \$1	avahi/ awk/ bach-completion/	promp-background promp-control-co	-properties/ pk	k:t-1/	
kbcycle* lid*	dd ((page++)) 29 counterman	28 hc set focus_follows_mouse 1	15 H vim aliases 15 alias zshrc="\$EDITOR \$HORE/.zshrc"	24 echo \$cwd 29 EE -d \$cwd && \$cwd != .]] && cd "\$cwd" && cwd="brws"		bibletime/ bibletime/	jobject-introspe ppick	ration-1.07 pys	pobject/	
nkap3± nkthunb±	11 done 21 HEADERS OFF the last page	30 h rendve att existing kegolnologs 31 hc keyunbindall 32 H keyunbindall	<pre>14 alias al="\$EDITOR /home/ninjaaron/.aliases" 19 alias book="\$EDITOR //ome/ninjaaron/.aliases" 19 alias book="\$EDITOR //docs/ma-work/heb/book.txt"</pre>	31 case "\$cmd" in 32 case "\$cmd" in 32 .) If fm makes a list of files in all subdirectors and opens th	1 N/bin/bash	ca-certificates-java	// graff/ grub/		dline/	
oggifyt picpaget	33 may	33 Mod=Mod4 34 hc keybind Control-Alt-backSpace quit	20 alias hla="\$EDITOR +/.config/herbstluften/autostart" 21 alias hlf="\$EDITOR +/.config/herbstluften/func"	33 Ên & I 34 A	3 H File browsing with dwenu	celer/ celer/	2tk-2.07 2tk-3.07 2tk-dua	262	ands/ atrum/	
these wiki.sht	15 BALL	35 NC KEYDING SNOD-SNIFC-F FELDIG 36 NC KEYDING SNOD-SNIFC-C CLOSE 17 NC KEYDING SNOD-X CLOSE	22 ALIAS HISSTSEULTUK AV.CONFIGYHEROSELUFKNAVSNAP" 23 24 H packannannent	35 themes(1) & changes the color scheme 36 themes(1) shdmE/, themesised '/Ad/d ; /*\$/d ; /#res/d'1\ 37 \$00ENU -= 'themesis')	5 SOURCE SHURE/ GRENU-C 5 DRENU="\${DRENU-dmenu} -1.60"	cracklib/ cup/	atk-pnginps/ atksourceview-3.	.07 200	version/	
 config-herbstluftwalt xbmdxd/ 		36 39 apps	25 alias pS="sudo pacman -S" 26 alias pSs="pacman -Ss"	38 theme \$theme&	d H this is actually the last function called. Customize be 9 H extintion here.	dbuz-1/ dconf-oditor/ dozktop-directoriez/	hrppll/ hudata/	111	tond/	
panel.sht restartpanels sht	s 3 HH SWAP! HH vim: tw=40 H H Eunctions to give bechstluftwe some dunamic tiling behaviors	Hu hc keybind shod-apostrophe spawn sconf/swap stack_spawn urxvtc Hi hc keybind shod-apostrophe spawn sconf/swap stack_spawn urxvtc H2 hc keybind RodH-d spawn SHORE (bin/dw	er attas psgensuoo pachan "sgen 26 attas pSgensuoo pachan -85" 29 attas pSgensuoo pachan -85"	<pre>41 sour=s(Find -L . iSource -p "\$cmd Source:") 42 Source (Find -L . iSource -p "\$cmd Source:") 43 Source -p Sou</pre>	10 pent) (11 case "\$sel" in 12 skult enult auttit flutit neult settit etult sellt	dict/ disponer/	con-naming-util		ninfo/ cinfo/	
swapt > config-zathura/	5 W by Aaron "ninjaaron" Christianson <ninjaarondywail.com> 6</ninjaarondywail.com>	43 hc keybind Mod4-comma spawn \$conf/swap waster_spawn \$HOME/bin/dm 44 hc keybind Mod4-period spawn \$conf/swap stack_spawn urxvtc	30 alias y#"yaourt" 31 alias ySyba="yaourt -Syba"	43 dest=\$(Find -L \$HOME -type dl\$OMENU -p "\$cwd \$sour DEST;") 44 [[-z \$dest]] && exit	13 mplayer "\$sel" & 14 ii	doc/ drtat/ drtat/	Theophagick-E.d.	2/ 500	(nf-dist/	
 REgboardz/ Rutt/ ncmpcop/ 	r a usage a d WHM auto 9 U – Swape climpt in and put of "eleter" or "eleck " To there is neve and	95 96 H CONNANDS 97 hc knybind Shift-F3 seawn SHOME/bin/linht dub	ar 33 alias agi="s apt-get install" 14 alias ages"s apt-get europ"	145 SEMB "SSOUR" "Sdest"& 46 Lt H Launch interactive programs in a terminal. 47 march	15 *.PDF1*.PS1*.dguu) 16 *aithura "\$sel" &	enchant/	ntitool ack-audio-conne	tion-kit/ tra	kg/ ix/ in/mizzion/	
 theses/ vis/ 	10 B "auto" splits it Example keybinding in berbsluftwm's autostart: 11 B hc keybind \$Rod-semicolon spawn /PATH/TO/www.auto	44 hc keybind Shift-F2 spam SKONE/bin/light balf 49 hc keybind SF46AudioRisePolume spam pagixerincrease 5	35 alias agu="s apt-get update" 36 alias agu="s apt-get dist-upgrade"	48 Entry=\$(49 (IFS=';	13 *.jpg[*.gif[*.png) gyview "\$sel" %	FoReador /	kbd/ kde4/ kde4/	40	13-0.16/	
aliases deenurc	12 WHH stack_spawn 13 H Focuses stack and runs command, good wrapper For terminal: 14 H be known of American common (ADTU/TO/common)	50 hc keybind XF46AudioLowerPolume spawn pamimerdecrease 5 51 hc keybind XF46AudioRute spawn pamimertoggle-mute	37 alias agace's apt-get autoclean' 38 alias agare's apt-get autoremove' 28 alias agare's apt-get autoremove'	50 Find \$(manpath)) 51 std -n 's/.t//(.t/).1.gz/\1/p' sort 52 f00501.or (manp.0)	20 *.**c)	fonts/	laptop-mode-tool Libcaca/ Libquvi-scripts	/ u3/) k:tgtk-1:8/	
Pentadactylrc Pystart.ey	15 MHM master_spain shoomerico spamn /rein/io/smap stack_spamn sterk 15 MHM master_spamn 16 Mmoves clients in master to stack and runs command, possible wrapperi	53 hc keybind XF&BAUdioNext spawn wpc next 54 hc keybind XF&BAUdioNext spawn wpc next	40 alias acs="apt-cache search" 41	53 urxvtc -e \$\$HELL -c "man \$entry"	23 44 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6Con () 9db/	libthai/	# 0 212	d/	
VIFRIC	17 H dmenu_run: 18 H hc keybind \$Mod-comma spawn /PATH/TU/swap master_spawn dmenu_ru	55 hc keybind XFd6PowerOff spawn \$HORE/bin/pwr 56 hc keybind XFd6Sleep spawn \$HORE/bin/pwr	H2 alias grub-update="sudo grub-wkconfig -o /boot/grub/grub.cfg" N3	55 youtube-viewer*ltorrtux*lvif#*lvi#lvi#led*lnano*lnc#pcplcmatrl 56 wicd-curseslinfo*lweechat-curseslhtoplyaourt*l"#an "*)	25 libreoffice "\$Sel" &	pedit/ pedit/ pedite-provider//	licale/	AL DE LA DE	hor!	
Sinitro Sresources gerofile	19 max close 20 M — If client in waster frame is closed, it is replaced by a client fro 21 M — stack. If stack is much, it's removed, used like blue "close" commu	57 TAG MANESE((13) = w)	49 a power 45 alias reboot="sudo shutdown -r now" 46 alias halta"sudo shutdown -h now"	57 UTXVE -E \$5HELL -C "\$CND" 58 1	27 *.ncmli*.ncm) 28 FireFox "\$sel" & 29	phortrar pt/	txappoaranco/ man/		ity/	
zshenv zshrc		60 TAG_KEVS=({13} q w) 61	47 alias sus="sudo px-suspend"	60 "echo "\$c#d" \${SHELL:-"/bin/sh"} & 61 esac	30 *) H with undefined extentions, open vim. If the dire 31 H somewhere in \$HOME, ask for sudo.	gir-1.07 git7 Jur/sharps od bin	sisplak/	Lordall-arubt	lightt magiget	thoset
<pre>html/ nolokai/ nolokai/</pre>	N = CONFIG H 25 H split_direction = Frame split's orientation. "horizontal" or "vertical 25 H split_stimute determiner split's location, using between 0 1 and 0 0	10 hc rename default "s(TAG_NARES[0])" true 13 for i in s(!TAG_NARES[0]); do 14 for i in s(!TAG_NARES[0]); do	49 H misc command shortcuts 50 alias is="iscolor=auto -F" 1 alias is="iscolor=auto -F"	1 63 exit	32 14 EE \${Pw0/A\$USERA/\$USER} != \$USER]] 66 33 EE \${echo =e "yinn" \$DREMU =P "sudo?") = y 33 ; the unsude of the set for the set of the set	autorurt balt	colortertt int	kbcyclet 1:dt	akap3t picpapet akthuabt purt	wikilant
- Py/ vid/	AT # stack_layout = stack's htmm layout, "horizontal" "vertical" "max" "gri 28 H stack_Frame = Frame For stack. G=top/left 1=bottom/right d=smaller Frame	55 hc add strate NARES(\$1) 55 hc keybind sRod-skey use_index \$1	52 alias Isaamis -a" 53 alias Isla="Is -lha"	2 "environment	35 est	default	Reyboards/ane	poploss seal wid	·/	
sleepless	9 split_direction="horizontal" 10 split_ratio="0.666""	57 hc keybind \$Mod-Shift-\$key move_index \$i 54 done	54 alias df="df -h" 55 alias du="du -h"	3 set nocompatible backspace=indent.eol.start history=50 nowrap wou 9 set ruler showchd incsparch lbr expandiab tabstop=2 shiftwidth=2	37 unxvic -e sh -c "vim "\$PWD/\$sel"" 38 Fi	<pre>xkb_rymbols "ame" C include "ur(baric)</pre>				
	12 stack_Frame=1 31 # Here ends the section for users #	70 K keybind \$Mod-w use web : keybind \$Mod-Shift-w wove web 1 71 K keybind \$Mod-w use web : keybind \$Mod-Shift-w wove web 1	ST alias Fe'Find -L -name' 54 alias whe'while"	6 let g:SuperTabDeFaultCompletionType = "context"	40 3 H	key type (proup1):"	FOUR_LEVEL";	tion Characters";		
	<pre>34 H three little functions used over and over. 35 hc() { herbstclient \$0;}; hcc() { hc chain \$0;}; chn() { cmds="\$cmds , \$</pre>	72 H layouling 73 hc keybind \$Rod-r remove , keybind \$Rod-space cycle_layout 1	59 alias ast="autosus toggle" 60 alias mnt="s mount"	d Filetype plugin indent on 9 set gfn=Ubuntu\ Romo\ 10 go=	<pre>H2 H use 'find' to get the entire contense of \$HORE recursiv H3 search() {</pre>	key (LSGT) ([z key (TLDE) ([key (TLDE) ([grave arciitilde	dead grave	plusminus 1 2 dead_horn 1 2	
	37 set_vars() { HHH some vars need to be set more than once. 38 dump=(Sinc dump)) H put the content of hc dump into an array	75 hc keybind \$Add=0 split verical 0.5 75 hc keybind \$Add=0 split horizontal 0.5 76 H split Hore precisely	62 alias twa="twux attach =d" Hopens a window with the last twux ses 63 alias w39="w3# -cookie google.com"	11 if has("gui_running") colorscheme molokai 12 else colorscheme cterm	N F really long subshell supplies the file list and hides 46 H files. In SHIME, hide hidden files by default unless	key (AED2) C C key (AED3) C C	numbersis	n storling cont	EuroSign	
	19 H values based directly on the dump 40 Ratio=\${dump[1]#*.} H make the division of primary frame an int	77 For i in (19); do 76 hc keybind \$Mod-Alt-\$i split horizontal 0.\$i	64 alias png="ping google.com" 65 alias alsi="alsi -a"	13 endif 14 " autocmd stuff	47 H selects 'unhide.' 48 menu=\$(IFS="	KEN CHEDRA C	k, areiidireus,	reation, id. paragraph.	Uracz 17: //	it tigature
	I drientalion=\$(dump[1]**:*) H Frames split horizontal or vertical Frame=\$(dump[1]##:) H Frame with active client U EndDefdump[2]##:*) H month Grame of Vertical Automation 2 ware of Comparison (Comparison Comparison), came for following 2 ware of the comparison of the comparison	79 hc keybind \$Mod-Control-\$1 split vertical 0.\$1 40 done	66 alias td="transmission-daemon" 67 alias ta="transmission-remote -a" 4 alia: ta="transmission-remote -a"	15 augroup vierdEx 16 aug 17 augroup Augenal Augenal Amerikadactus Ext	SO if [[\${PWD/\/home*/\/home} = /home]];then	koy child; C	Binuz, underzore.	Razculine endach	ringlelowquotowark1	
	<pre>49 Emptgl=\${dump[\${Hdump[2]}-1]HH*:}:Emptgl=\${Emptgl:1:1} 45 Emptgdl=\${dump[1]H*:}:Emptgdl=\${Emptgdl:1:1} 46 Emptgdl=\${Emptgdl=} 47 Emptgdl=\${Emptgdl=} 48 Emptgdd=\${Emptgdl=} 48 Emptgdd=\${Emptgdl=} 48 Emptgdd=\${Emptgdl=} 48 Emptgdd=\${Emptgdl=} 48 Emptgdd=\${Emptgdl=} 48 Emptgdd=\${Emptgdd=} 48</pre>	d2 hc keybind \$Mod-space cycle_lagout -1 d3 hc keybind \$Mod-s floating toggle	69 alias hc="herbstclient" 70 alias di="diatheke"	18 source /home/ninjaaron/.vim/pentadactyl.vim autocmd bufRead /tmp/uzbl_edit* source /home/ninjaaron/.vim/pent	52 if [[\$show = hidden]]; then 53 Find -L .	key (4001) \$ 5	equal, pluz.	e, notequal,	pluzninuz 1 2; OE 1	25
	16 B use absolute values from dump to determine values relative to stack/ 47 if EE stack Frame = "d" 11 "ssplit direction" != "Surientation"]] 44 blem E stEatin.0.11 - es 5.3 & stack=11 stack=0	d4 hc Keybind \$Mod-F Fullscreen toggle d5 hc keybind \$Mod-p pseudotile toggle	71 alias dk="diatheke =b MET =k" 72 alias dh="diatheke =b dSAHB =k" 73 alias dh="diatheke =b dSAHB =k"	20 autocad burFeadPost * 21 \ if line("\") > 1 && line("\"\") <= line("\$") exe " 22 autocad wignter \$ if large() WEDDTee endif	54 sed "/*\$/d : /Ubuntu dne/[H; d; }; \$ [p; x; }" 55 echo "hide" 56 else	(1984) key (4003) C C key (4004) C C	F 2	E dead_acute.	uzoso i	3: // permitte
	49 else slack="\${slack_frame:-1}" 50 fi	d7 d8 H some_keybindings like to change on different hooks. Π	74 alias nh="sudo nethogs eth1" 75	23 autocmd bufenter * if (winnr("\$") == 1 66 exists("b:WERDTreeTyp) 24 augroup END	57 Find -L . 58 sed "/\/_/d : /ulconf/d : /+\$/d : /Ubuntu dne/{ H:	key (4005) C C key (4005) C C		dead_diapresiz	dagger 1 enequarter 1 diaproziz 1	20 77 % with line below
	<pre>1 [\$Frame = "0"] & emptyInact=\$EmptyI emptyInact=\$Empty0 10 If [[\$drientation = "horizontal" & \$stack = "1"]], then 11 If a stack = interpolation is a stack = interpolation in the interpolation in the interpolation is a stack = interpolation in the interpolation in the interpolation is a stack = interpolation in the interpolation in t</pre>	49 herbstclient -11 90 while read line.do	76 gap() { herbstclient emit_hook "gap \$2";} 77 H Gind processor that match a recent	26 " maps and commands and so forth	59 Echo "unhide" 60 Fi	key (1010) t t		B. Greek_pi	Debligur 1	21 // product (capitol Pi
	54 elif E[s0rientation = "vertical" SX Sstack = "1"]], then stackDed, masterDeu, emptyStack="SEmptyl", emptyBaster="SEmpty0"	92 H remove the gap 93 nogap)herbstclient_chain : set frame_gap -1 : \	79 psg() { ps auxigrep "\$27'igrep -v grep, }	24 command Pa PoonToggle asciidoc 29 noremap <c-w> :NERDTreeToggle<cr></cr></c-w>	62 else 63 Find .lsed '/-\$/d'	key (AD11) C [brack	iketright, bracerigh	it: UDERE: Fishi	tringlequetewark 3 }	// lost half-ring (ayin) // right half-ring (alof
	<pre>66 elif [[Sdrientation = "horizontal" 3% Sstack = "0"]]; then 57 stackOl; masterDer; emptyStack="SEmptyD"; emptyMaster="SEmpty1" 57 bitschol: stackOl; masterDer; emptyStack="SEmpty1"; emptyMaster="SEmpty1"; emptyMaster="SE</pre>	<pre>99 set window_gap \${window_gap-1} : keybind \$Rod-0 emit_hook " 95 set frame_border_width \${frame_border_width-1} :\ </pre>	d1 =() { d2 [[-n \$0]] ≪ [[-e \$0]] ≪ owner=\$(ls -l \$0]cut -d' ' -f3) %	30 command Diffdrag vert new I set bt=nofile I r ++edit H Od_ di 31 \ wincwd p diffthis	54 F1) 55 mltd/scho Uteren/UterEFNU -n Uterarch 4000-00	key (ACD1) 5 1	22	f: stiff:	diice 1	31
	<pre>stackD=u; masterD=d; emptyStack="\$EmptyD"; emptyMaster="\$Empty1" 60 fi</pre>	97 pad 1 Spad : . 98 H add the gap	44 Necho -n "sudo [V/n]? %% read sudo %% [[\$[sudo:-y] = y]] %% 45 sudo \$EDITOR -c "syntax off" \$D \$EDITOR \$D	33 " syntax toggling 34 Function! ToggleSyntax()	67 case \$sel in	Rey (ACD3) C C Rey (ACD4) C C Rey (ACD4) C C	2	dead_belowdel	dead hook 1	
	b) [Strame = Sstack]66 b2 act=Sstack0 S6 inact=Smaster0 { act=Smaster0; inact=Sstack0; } b3 b; set ware H or all that stuff T inch said	99 gap#) ga#=\$(lime/gap /);a#ad=(\$pad) 100 For ((1=0, 1 ≤ \$(HaFad[30]); 1++));d0 101 aFadfs11=t((\$C#aFad[51]) + toop - 1))	db } 47 14 B 'cd' pets yng where yng're pning'	35 1F exists("g:syntax_on") syntax off 36 else syntax enable endif 37 endfwrction	69 EXIC 14 70 hide) 71 Showshore 1		13		onchalf	22 C
	64 55 MMM Functions called by the luser	102 done in a star a st	49 cd() { 90 E -z,"\$1"] 66 builtin cd → 11 builtin cd "\$1" 2> /dev/null 11	34 " hebrew mode toggle 39 Function! ToggleHebrew()	72 search () 73 unbide)	key (ACD3) C C key (ACD3) C C /om key (ACD3) C C /om	icelen, celen, trophe, quotedbl.	uzoze.	thern 171 ac 121	31
	66 auto() (HHR swap out of the current frame into the other. 1) 67 if [-n "SEmptyAll"], then H EmptyAll is null if 1 frame with clients is a characteristic frame frame in the number of frame into the second	104 Set Frame_gap "-\$gap" :\ 105 Set window_gap \$gap : set Frame_border_width 0 :\ 115 avd 0 #csoudSTM	91 builtin of -/"\$1" 2> /dev/null { 92 EC \$PWD != '/']] 64 93 County (Kind -) aven d (1) 2> /dev/null > 1	40 1F %l:rightleft == 0 set rightleft keywap=hebrew 41 else set norightleft keywap= endif 42 endifertion	74 show=hidden 75 search	kpy (A801) C E kpy (A802) C E kpy (A803) C E	1	2. Johang. U2248.	dead_cedilla 1 dead_sganek 1 Ccedilla	
	<pre>69 ["semptyInact" != ')'] So chn cycle -1 , shift -e sact , focus -e sinact , cycle 1</pre>	107 pad 1 Starad 201 108 keybind SMod-D ewit_hook nogap	94 Found=(\$(Findtype d -name "\$1" 2> /dev/null)) 95 if [_n "\$found"], then	43 "create bindings for insert and normal mode together. 44 Function! Dualbind(key_command)	77 browse "\$2" 78 esac	Key (4805) C C	141	ntilde	dead_tilde 1	
	11 Else # one Frame? split it. move client to new Frame, set stack layout! 72 hc split split direction split ratio, set vars 73 frequencies a "moniperator" (Schem shift) as a liste shift of 74 frequencies a "moniperator" (Schem shift) as a liste shift of 75 frequencies and frequencies of the shift of	109 expand) herbstelient Sexpand 11 contract) herbstelient Scontractig	95 cdlist 97 else 94 founda(t(find -1tupe d -name "tl"))	45 exe "noremap (Leader)", a:key a:command 46 exe "inoremap (Leader)", a:key "^0", a:command 12 endfunction	79 } 40 Al H browse files one directory at a time. Non-only you gut	key (AbD) t t key (AbD) t t	poriod groater	dead macron dead brove s	less thanequal 12 greater thanequal 12 guest i endeug 12	
	74 chn Focus - e \$stack0 , set layout \$stack_layout 75 [\$stack = 0] 60 chn Focus - e \$master0	112 done%	19 cdlist 00 fi	48 "Reymaps 49 let mapleader=";"	42 H into browse(). However, when \$st1 is a file, browse() h 43 H off to open(). This is a result of how the program orig	key (SPCE) C E	space, space,	nobreakspace,	nobreakspace 3 2	
	The Pl, RCC "\$ceds" [] 77] 24 stack spawn() (MMM seawn applications in the stack	114 # Selfer to different layouts directly 115 hc keybind \$Mod-Nltw set_layout vertical 15 hc keybind \$Mod-Nltw set_layout herisontal	01 } 02 Is 13	SU " settings SI nnoremap (silent) (Leader)sy :call ToggleSyntax()(CR) S2 call Dualbind(): [call ToggleSyntax()/CR)	AM # I've thought about changing to go directly to open() Fr d5 H but I spent my time writing this sentence instead. A5 browse() f	25 D				
	79 ["SEmptyAll" = ')'] 66 \$3 i just span if no other clients exist. 40 if [-z "SEmptyAll"]; then \$3; auto; else hc focus -e \$stack0; \$3;	117 hc keybind (Rod-Alt-s et Layout noi zontat 118 hc keybind (Rod-Alt-s et Layout grid	04 05 cdlist() {	53 call Dualbind('r', 'fwgg)'v') 54 let settings = [['Fi', 'foldgelndaindent'], ['tw', 'tw=72'], ['W	47 while [-d "\$sel"]; do 48 cd "\$sel"	1 [111		5.2%] Task	cs: 66, 45 thr, 1 ru	ming
	<pre>Al } Al master_spawn() (HMH spawn applications in the waster. </pre>	119 H "Master Window" type stuff 120 hc keybind Shod-semicolon spawn Sconf/swap auto 13 hc keybind Shod-semicolon spawn Sconf/swap auto	05 if [\${#Found} -gt 1];then For ((i=1, 1 <= \${#Found[0]}, i++));do	<pre>55 For [key, setting] in settings 56 exe "call DualBand("".key."", ':set" setting."<cr>*)" endfor</cr></pre>	49 sel=\$(ls -a \$DMENU -p "\$PWD:") 90 [[\$sel = .]] %% break	2		2.60 Load 2.00 Upto	average: 0.09 0.11 Me: 10:47:05	0.16
	and then \$2 And then \$2 S else H moves all the clients in master out and then seawn	IZI NE KEYOINO SHOD-SLASH SPANH SCONF/SWAP CLOSE 17 122 123 H resizing 17	09 done "\$11, \${Pound[\$1]}" 10 done 10 done which? "	56 For key in [[w], [y], [x]] 59 For key mollowid [[w], [x]]	92 92 93 case tel in	Men El IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		2/390286 1/165986		
	<pre>46 [-z "sEmptyAll"] 60 auto 47 while ["\$emptyAster"]= ')']; do 48 bec from the back of the set of th</pre>	129 RESIZESTEP=0.01	ll read sel 12 builtin cd "\${found[\$sel]}"	60 "Filetypes 61 For [key, ft] in [['a', 'asciidoc'], ['p', 'python'], ['s', 'sh	94 ".") 95search ;;	Playlist (8 items, 1	length: 35 minutes,	25 seconds)		Volume: 35%
	All done:"\$2" done:"\$2"	127 hc keybind \$Mod-Control-k resize up +\$RESIZESTEP [] 128 hc keybind \$Mod-Control-k resize up +\$RESIZESTEP [] 128 hc keybind \$Mod-Control-1 resize right +\$RESIZESTEP []]	14 builtin cd "sfound" 15 fi	63 " Window Ranagement 53 " Window Ranagement 54 For Key in E "b", "j", "K", "l", "B", "J", "R", "J", "R", "L" 3	97 exit 0 93 *3	Time Artist	Title/	/Filename	สาเ	LC3-
	<pre>92 close() { HHH close client. Fill master if empty. remove stack if empty.</pre>	129 129 120 12	16 }	1.65 exe "call Qualbind(".key.", "".key.")" LendFor 1 66 " get ya some output Fram shell commands 11	99 opense 00 esac	4:36 Christina Pe	erri Pengui	un Deluve Editionalis	Lo	estrong [Deluxe Edition]
	14 [semplyRaster = ')'] 60 hcc , Focus -e \$stack0 , shift -e \$masterD601 5 [SemplyRaster = ')'] 60 hcc , Focus -e \$stack0 , remove	132 hc wousebind \$And-button1 wave 133 hc wousebind \$And-button2 zoom	19 Fbg() { 19 Fbg() { 10 [-2 "62"] 66 fbset -9 1600 900 1600 900 32 [] fbset -9 "42" "41	54 vnorekap <leader dkvo(esc="" p:.!sh(cr)od\$"vpjdd"v="" sh="" =""]<br=""> 54 vnorekap <leader dkvo(esc="" p:.!sh(cr)od\$"vpjdd"v="" sh="" =""]<br=""> 59 nnorekap <leader :!nwthon="" cr="" sh=""></leader></leader></leader>	02 02 03 W the search() is the default behavior, but I also have 3	*	CITY COVERTING L	dS: Arch Linux a	(d6_64	[0:30/4:36]
	96) 97 SD:exit H do something and exit	134 hc mousebind \$Mod-Button3 resize	(15	70 vmoremap (Leader/pg::/pgthon(CR> 1) 71 " pasting 1]	09 H aliased to 'brws', so when invoced that way, it runs br 05 if [[\$0 = *brws]];	HH		Hostname: Folio Uptime: 10:44, 1 Record: 3 7 8-1	19 sec	
		137 hc keybind \$Mod-BackSpace cycle_monitor [] 137 hc keybind \$Mod-Tab cycle all +1	es a opens a coursession with an optional command 24 tm() { tmux new-session "\$2" ;} 25	ria vmorthap kleader)c (*4) 73 inoremap kleader)v *0"+P [1] 74 call pualbind("P", "*#P") [3]	un chen selv sewo" se browse 107 else search 08 fi	1111 1 111		Shell: /bin/ash Packages: 677		
		139 hc keybind SMod-Shift-Tab cycle_all -1 [] 140 hc keybind SMod-c cycle []	26 HH looks up a word using the local dictionaries 27 Hdl() { dict "\$*"[vimpager; clear;;}	76 inoremap (Leader)p 0p 11 76 delfunction Dwalbind 11	lo exit	+ 111, 111 + 1111 H H		Window Manager: GTK2 theme: Dark	HerbsituftWA Clooks	
		ini ne keyaina shad-h facus left () 192 he keyaina Shad-j facus dawn () 193 he keyaina Shad-k facus wa	ee ян цоох up a word using remote dictionaries 29 Ndr() { dict -h dict.org "\$*"lvimpager, clear, }					GTK2 Font name: RAM: 624 Mb / 39	bitocra 10 302 Mb (15%)	
		149 hc keybind Shod-l Focus right 145 hc keybind Shod-i jumpto urgent					,HHH;	CPU: Intel(R) Co Home: 156 / 986	(16%) (btrfs)	2 1.406Hz
		146 hc keybind SMod-Shift-h shift left 147 hc keybind SMod-Shift-j shift down 148 hc keybind SMod-Shift-y shift wa						Nubl: 6.36 / 110	(652) (8814)	
		199 hc keybind Shad-Shift I Shift Fight 150 hc keybind Shad-a toggle Focus_Follows_aouse				нн ^г	1			
	rc/oothites/connig-herbstluftwm/swap 92,38 All P	src/dotrites/conrig-herbstluftwm/autostart 2,0-1 Top s	rc/001Piles/allases 78,14 All	src/detFiles/vierc 1,1 All b		-AS 11				

b 2 3
" Press ? f
... (up a di
/home/ninja
- bin/ -> /
. doc/
. mnt/
. mus/
. mus/
. pic/



Where we are...

End-user programming

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End-user programming

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17	Amanda.Pinto@northwindtraders.com	amanda pinto

Concatenate(ToLower(Substring(v,WordToken,1)), " ", ToLower(Substring(v,WordToken,2)))

Sketching

```
int[25] transpose5x5(int[25] mat){
    int[25] out;
    for(int i=0; i<5; ++i) for(int j=0; j<5; ++j){
        out[ ??*i + ??*j + ??] = mat[??*i + ??*j + ??];
    }
    return out;</pre>
```

Set up the skeleton, only fill in ??

}

Stochastic superoptimization (STOKE)

Montgomery multiplication:

.LO			.LO		
movq	rsi,	r9	shlq	32,	rcx
mov	ecx,	ecx	mov	edx,	edx
shrq	32,	rsi	xorq	rdx,	rcx
andl	c1,	r9d	movq	rcx,	rax
movq	rcx,	rax	mulq	rsi	
mov	edx,	edx	addq	r8,	rdi
imulq	r9,	rax	adcq	Ο,	rdx
imulq	rdx,	r9	addq	rdi,	rax
imulq	rsi,	rdx	adcq	Ο,	rdx
imulq	rsi,	rcx	movq	rdx,	r 8
addq	rdx,	rax	movq	rax,	rdi
jae	.L2				
movabsq	c1,	rdx			
addq	rdx,	rcx			
.L2					
movq	rax,	rsi			
movq	rax,	rdx			
shrq	32,	rsi			
salq	32,	rdx			
addq	rsi,	rcx			
addq	r9,	rdx			
adcq	0,	rcx			
addq	r8,	rdx			
adcq	0,	rcx			
addq	rdi,	rdx			
adcq	Ο,	rcx			
movq	rcx,	rð			
movq	rdx,	rdi			

STOKE code 16 lines shorter, 1.6x faster than gcc

ge=1 r='pwd' talPages=\$((\$(lslwc -1) / \$limit + 1)) FDUCtion restriction (Carbo (Carbo)); I Spage (Carbo) >> picesfpage(Link); I Spage (Carbo) >> picesfpage(Link); I Spage (Carbo) >> picesfpage(Link); I Spage (Carbo); I Spa (loop that creates pages with \$1) For pic in *{jpg.png.gif.svg};do echo "<img src (f count++))</pre> Hput may links and close the test scout -ge slimit & { naw ((page++)) counterm naw; } He exit

instali kbcycle lid* light* mkmp3* mkthumb* picpage* purp

direction="horiz ratio="0.6667" 67" tical" functions used over and over. ient \$2;}; hcc() { hc chain \$2;}; chn() { cm iree tit

ased dired mp**[1]0***.} 1]HH*:};Emptyl=\${Emptyl:1:1} tyAll=\${EmptyAll:1:1}

\$stack_Frame = "d" || "\$spl
\$stack_Frame = "d" || "\$s

Fi [\$Frame = \$stack]66 act=\$stack0 &6 inact=\$master0 || { act=\$master0; inact=\$stack0; act=\$stack0 &6 inact=\$stack0 &6 inact=\$master0 || { act=\$master0; inact=\$stack0; act=\$stack0 &6 inact=\$stack0 &6 inact=\$stack0 &6 inact=\$stack0; act=\$stack0 &6 inact=\$stack0 &6 inact=\$stack0

ne riama; selatit ande client to men frame, set slack lage it spelit direction split_ritio, set vars kit_direction" = "horizontal"]6%chn shift -e r II chn shift rus -e sslack0 , set_lagout sslack_lagout % = 0]8% chn fecus -e shaater0

ck_spaw() { HHH spawn applications in the stack. "SEmptyMll" = ")"] && \$0 || H just spawn if no other clients exis if [= * "SEmptyMl"]; then \$0, auto, etse hc facus -e \$stack0, \$0 ster_spawn() { NHM spawn applications in the waster
if ["\$Emptydll" = ")"]

F Startgett -Fee 30 The 20 Startgett -The startgett -Startgett -startgett -hit - Startgett -hit -Startgett -hit -h

lase(), Amm clase client, viit Amate he classicet pars [semityhaster = ')'] 60 hec , Facus -e șstack0 , shift -e șmaster060 [semityitack = ')'] 60 hec , Facus -e șstack0 , remove

How is the total and the second and 9 | \$Aod-r remove , keybind \$Aod | \$Aod-u split vertical 0.5 | \$Aod-o split horizontal 0.5 # split more precisely
for i in (1.9); do
hc keybind \$Rod-Alt-\$i split horizontal 0.5i
hc keybind \$Rod-Control-\$i split vertical 0.5i dome hc keybind \$Mod-space cycle_layout 1 hc keybind \$Mod-space cycle_layout -hc keybind \$Mod-s floating togsle

U chwod +x -/.config/herbstluftww/ confe"\$HOME/.config/herbstluftww killall herbstclient

nction hc() { herbstclien

hc set default_frame_layout 3 hc set focus_follows_shift 1 hc set raise_on_focus 1

TAG_MAMES=({1..3} q w) TAG_KEYS=({1..3} q w)

ADUSE :

nd \$Rod-Return spawn urxvtc nd \$Rod-apostrophe spawn \$cor nd Rod9-d spawn \$HORE/bin/dw

hc rename default "s(TAG_NARESED))" || true | for i in s{!TAG_NARESED]} , do | key="s(TAG_NEVS[\$1])" | bc add s(TAG_NEVS[\$1])"

nd Shift-F3 spawn \$HOME/bin/light dub ind Shift-F2 spawn \$HOME/bin/light half ind XF46AudioRaisePolume spawn pamixer -ind XF46AudioLowerPolume spawn pamixer -

swap waster_spawn \$HOME/bin/dw /swap stack_spawn urxvtc

hc emit hook reload

H some keybindings herbstclient -il while read line.do

n resource cost gade mogan / methodstatient, chain : set frame_gap -1.; \ set window gap {kindow gap-1}; kegbind \$no-0 emit_hook set frame forder_windt \${frame_border_windth-1}; \ pad 0 \$pad 1. set \$frame_gates \$

\$Mod-Alt-v set_layout vert: \$Mod-Alt-h set_layout hori: \$Mod-Alt-m set_layout max \$Mod-Alt-g set_layout grid semicolon spawn \$conf/swap auto he keybind \$800

sycle Focus left Focus down

shift left shift down shift up shift right

h resize left +\$RE j resize down +\$RE k resize up +\$RESI

bind --all nd \$Rod-Buttonl wove nd \$Rod-Button2 zoom cycle_monitor cycle_all +1 cycle_all -1

-n "which? '

19() (| -2 "\$17"] && Pbset -9 1600 900 1600 900 32 ||

ens a twox session with an o { twox new-session "\$2" ;} Hs up a word using the local dictionaries { dict '&*'Vimpager, clear .} Ks up a word using remote dictionaries { dict -h dict.org '%*'Vimpager

"61"] S& builtin cd + 11 builtin cd "6 Thin cd +/"61" 2> /dev/null 11 { sextime cd +/"01" 2) /dew/null li(figHou i= //"1] && founds (2/ind -L. -lype d -name "01" 2) /dew/null)) founds (2/ind -L. -lype d -name "01" 2) /dew/null)) founds (2/ind -L. lype d -name "01" 2) /dew/null)) founds (2/ind -L. lype d -name "01" 2) /dew/null))

tax off' \$2 || \$EDITOR \$2

() { [[_-n_\$0]]] & [[_-e_\$0]] & concres(1s -1 \$0[cut -d' ' -f3 [[_Sowner != SUSCE]] !] [[_S(PNO/SHONE/) = SPNO]] &

d=(\$(Find -L + -type d -name "\$1"))

eke" eke -b MET -k" eke -b OSRHB -k" ger -playlist" methogs eth1"

gap() { herbstclient ewit_hook "gap \$2";]

14 H Find processes that match a regex 79 psg() { ps auxigrep "\$2"igrep -v grep; }

pic="\$1" [-n "\$2"] && scale="\$2" || scale=250 name="echo "\$1"|cut -d"." -F1"

10 exit

alias g="git"

} alias s='sudo'

push-conFigs() { (builtin cd \$DOT git add '*' git comit "\$17 git push origin waster

alias pS="sudo pacman -S" alias pSs="pacman -Ss"

alias agi='s apt-get install alias agp='s apt-get purge'

alias reboot="sudo shutdown -r now" alias halt="sudo shutdown -h now" alias sus="sudo pm-suspend"

convert -scale tscale "toic" "toage"-thugh on

"settings morray claster) (Leater'sy .coll. TogleSyntam()(CD) coll building ('r', 'weg) (sgletherw()(Cr') te settings : [(r's', 'felgetheathodisherw(), ('w', 'tw?2'], ['w fer [ksy, setting] in settings new 'coll building("'ksy'', 'sett'setting "(cr')') | emform

" saving and quitting For key in Efw", [q", [x"] exe "call bualbind("".key."", ":".key."<CR>")" | endfor For E key, ft] in EE'a', 'asciidoc'], E'p', 'python'], E's', 's exe "moremap <Leader>f".key " :set filetype=".ft "<CR>"lendfor

let mapleaders"."

H get user configs source \$HORE/.denurc DRENU=\${DRENU-denu}

9=\$(

and=\$1

Pathe"spath:sHORE/bin" | cachedirss(XOG_CACHE_HORE:-"SHORE/.cache" | if [-d "Scachedir"], then | cachedirabedir/denu_run

deepu cache U

(IFS=: IFS=: dqr -n "\$cache" \$PATH, then echo -e ".\n\$(sits: -FLx \$PATH | sort -u)\n\$) else cat "\$cache" Fi historku)

H if the user selects a children of a children of the selects a children of the selects a children of the select o

wit sourssfelmd -L. 1900ENU -p "Jackd SOURCE:") Testsfelmd -L 1900ENU -p "Jackd SOURCE:") Testsfelmd -L SNOE: type disONENU -p "Jackd \$sour DEST: Sche "JSour" "Jdes "G

esindent.eol.start history=50 nowrap wow ch lbr expandtab tabstop=2 shiftwidth=2 w wildwode=list:tongest.full LetionType = "context"

*
''') > 1 S6 line("'\''') <= line("\$") | exe "
if !argc() | MERDTree | endif
(since("\$") = 1 S6 exists("b:MERDTreeTwp

"ags an comands and so forth marcler | marcler! comand P4 postGar! comand bifdriggter(cCC) comand bifdrig wortnew | sct timerite | r ++edit H | Od_ | di) | winnd p | diffrigits

insert and normal mode to command) ".a:key a:command ".a:key "^0".a:command

\$(manpath))| -n's/.*\/\(.*\).1.gz/\1/p'|sont| NU -p'man:") to -e \$SHELL -c'man \$entry"

case "\$cad" in " Se makes a list of files in all so

For key in E "M", "j", "k", "l", "M", "J", "K", "L"] exe "call bualbind('", key,"", '", key,"", key,"",)" [endfor

'suntax togglegyntax() if exists("gisgyntax()) if exists("gisgyntax_on") | syntax of else | syntax enable | endif edimetica

IshCORONAE TUR int 1

Cone output from Shell (Leader>sh :.!sh<CR> (Leader>sh dwv<Esc>p: (Leader>py :!python<CR (Leader>py :!python<CR)

allased to 'brws', so # if EE \$0 = thrws 11; then sels"\$PNO" && browse else search

discharge() { acpilgrep Discharging ;}
level() { acpilgrep "sing, \(.4\)%.4/\1/
psg() { ps auxigrep "singrep -v grep, }

ob() { while true ; do while [s(level) -gt 5] || [-z "\$(dis sleep 60 done zenity --warming --text "battery very 1 sleep 10#

SOURCE SHOME/.dmenurc DMEMUS"S(OMENU-dmenu) -1 60"

nO (ase "\$sel" in *.mkv[*.mov[*.avi*]*.flv mplayer "\$sel" &

.pdfl.psl*.djvu) zathura "\$sel" @

.jpg[.gif[*.png] gqview "\$sel" &

.html/.htm) FireFox "\$sel" &

Find .lsed 1/+\$/d

exit u hide)

search nhide)

show=hi search

sel=\$(echo "\$menu"!\$DAENU -p "search \$PN0:")
case \$sel in

-Fi

oggle() {

exit 0 ;; t) open&

rowse() { while [-d "\$sel"]; do cd "\$sel" sel=\$(ls -al\$DREMU -p " [[\$sel = .]] %% break done -alsoRENU -p "sPWD .]] %% break Nex Sup

Time Artist 4:36 Christina Perr

Playlist (d items, length: 35 minutes, 25 seconds) Title/Filenam

Tasks: 66, 45 thr, 1 running Load average: 0.09 0.11 0.16 Uptime: 10:47:05 Album Penguin ong [Delume Edition]" (201)

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Volume: 35

ong EDeluxe Edition 0:30/

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periodcenter inglelowquotes endarh 1 2 nin diaprofit dead_acute I Permitte dead_dias // circumflox // product (ca key (8011) £ [bracketleft, braceleft, UD207, rightdou key (8012) £ [bracketright, braceright, UD207, right/in key (8KSL) £ [back/lash, bar, puillemolleft, pu sloquetowark 1 2: // loft half-ring (agin sloquetowark 1 2: // right half-ring (als (ACD1) (ACD2) (ACD3) (ACD3) (ACD3) (ACD3) (ACD3) (ACD3) (ACD3)

key (LSGT) key (TLDE) grave, arciitilde. numbersion dollar percent trademark, storling cont infinity if [[\${PWD/\/home*/\/home} = /home]];the key (4001) (key (4002) ((ama) key (4003) (4003

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[190]; *.odtl*.odpl*.odgl*.odsl*.doc libreoffice "\$sel" &

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667 52.07 prober -background-propo Completions rtificator/

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ulio/ c.d/ c_koymaps/ c_maps.cfg c_maps.cfg c_maps.cfg c.th c_maps.cfg covst-koy.com puort-koy.d/ proly.com

achine-id ail.rd akepkg.conf dadm.conf dadm.conf dadm.conf kertepio. kertepio. kinitopio. kinitopio. kinitopio.

Modularity (model)

Natural language specifications

Moduarity (search)

Final remarks









def min(x, y): return x if x i y else y

def min(x, y): return x if x i y else y

def max(x, y): return x if x \downarrow y else y

def min(x, y): return x if x i y else y

def max(x, y): return x if x i y else y

Programs share common subprograms

def min(x, y): return x if x i y else y

def max(x, y): return x if x i y else y

Programs share common subprograms

Problems:

- Part that changes embedded deeply in program
- Variables make it hard to extract subprograms

A new representation of programs



Lambda calculus



A new representation of programs



- Combinators B, C, S, I route encode how arguments get routed down
- Now subproblems are subtrees
- Extension of classic combinatory logic (Schönfinkel, 1924)

Representation of min and max



Adaptor grammars [Johnson, 2007]

 $C_t \leftarrow []$ for each type t [cached list of combinators] (notation: return^{*} c adds c to C_t and returns c)

GENCACHE(t): [returns a combinator of type t]

With probability $\frac{\alpha_0 + N_t d}{\alpha_0 + |C_t|}$:

With probability λ_0 :

Return^{*} a random primitive combinator (e.g., +, 3, I) Else:

Choose a type s

```
x \leftarrow \text{GenCache}(s \rightarrow t)
```

 $y \leftarrow \text{GenCache}(s)$

Return* (x, y)

Else:

Return^{*} $z \in C_t$ with probability $\frac{M_z - d}{|C_t| - N_t d}$

Inference: MCMC

Experimental results





Experimental results







Summary so far



• Multi-task learning: if induce one program, should be easier to induce a related one

• Need to expose shared subprograms

• Use adaptor grammar over combinatory logic

• Cache becomes a library of useful primitives

Modularity (model)

Natural language specifications

Moduarity (search)

Final remarks









2 3 🎇 🥝 Brenn 7 fan hele - L					3	expire	aroup-	loorstate.d/	ported i	15:35, 15-50-E185
(up a dir)	2 H wake html documents containing all of the pictures in a folder.	2 Cheod +x .config/herbstluftws/t </bin/t </.themes/aresources-sen</th <th>2 H wake a thumbnail for an image</th> <th>3 H this script started it's life as dwenu run</th> <th><pre>9 discharge() { acpilgrep Discharging ;} 5 lovel() { acpilgrep Discharging ;}</pre></th> <th>bash.bash_logout bash.bashrc bash_completion.d/</th> <th>arub.d/ arub.d/</th> <th>nachino-id mail.rd</th> <th>parred.DLD parred.pacnew</th> <th>sword.conf sword.conf</th>	2 H wake a thumbnail for an image	3 H this script started it's life as dwenu run	<pre>9 discharge() { acpilgrep Discharging ;} 5 lovel() { acpilgrep Discharging ;}</pre>	bash.bash_logout bash.bashrc bash_completion.d/	arub.d/ arub.d/	nachino-id mail.rd	parred.DLD parred.pacnew	sword.conf sword.conf
bin/ -> /home/ninjaaron/	<pre>4 limit=\$1 Hsets how many pictures per page 5 page=1</pre>	<pre>9 confs"\$HORE/.config/herbstluftwm" 5 killall herbstclient</pre>	pic="\$1" 5 [-n "\$2"] ≪ scale="\$2" scale=250		psg() { ps auxigrep "\$27'igrep -v grep; }	bd fodi tra bin fet.d? ca-conti ficator?)/hadow-)/hadow.pacnew)//api_wech.com/	nakepka.conf nan_db.conf ndadn.conf	pencia/ pkcz11/ pm/	rorett.d/ rortond/ toomf/
doc/ ent/	6 dir='pud' 7 totalPages=\$((\$(lsiwc -1) / \$liwit + 1))		5 name="echo"(\$1")cut -d"." -F1"	6 Source \$KONE/.dmenurc 7 DMENU=\${DMENU-dmenu}	d sleepless="\$KORE/sleepless"	colord.conf colord.conf conf.d/	f atk-2.0/ atk-3.0/ hozt.conf	nine.types nke2fs.conf	polkit-1/	truzted-key.key
net/	a IFS="	d hc() { cmds="\$cmds :#: \$2" ;}	convert -scale \$scale "\$pic" "\$name"-thumb.png	PATH="\$PATH:\$HORE/bin"	10 toggle() { 11 [-4 \$sleepless] %% rm \$sleepless touch \$sleepless	aron.d/ aron.d/	hosts ifeluad/	nkinitepio.conf nkinitepio.confr	profile.d/	vispagerre vispagerre visco
Pic/ SFC/	10 # Function For mavigation tinks	10 nc exit_nook reloid		11 if [-d "\$cachedir"]; then		cron.dony cron.hourly/ cron.wonthly/	iftab InagoRagick/	Hoduloz-load.d.	rc.d/ rc.d/	wied/ wpg_rupplicant/
dotfiles/	13 echo "(br)" >> pics"(page",html 13 echo "(br)" >> pics"(page",html 14 f toppe	13 these=\$(cat //.these) 15 space // these \$2these	bin/Akthumb 10,2 Alli 18 uim- Giletuoesch 10,2	13 else 14 cachestHORE/ deemu cache N if on ade dir. fall back to dotfile	15 [-n "\$(discharge)"] 66 [-z "\$(psg mplayer)"] 66 [! Sudn pa-suspend-hubrid	crypttab cup?	ptable//	Relayer/	re napr.crg.pach	w xdg/ xinetd.d/
alars* aur*	<pre>15 echo " next page > br>" >> pic) 16 }</pre>	15 pad=\${pad=.11 1 1 1} 16 hc set frame_border_active_color_\${frame_border_active_color_\$fg_c	2 H git aliases 3 alias e='eit'	15 fi 16		de fault/ depmed.d/	krb5.coni	Auttra.dist Auttra.gpg.dist	request-key.d/	yanur tra
autosus* backup*		17 hc set Frame_bg_active_color \${Frame_bg_active_color-\$bg_color} 1 16 hc set Frame_bg_normal_color \${Frame_bg_normal_color-#000000} 1	5 push-configs() {	17 cmd=\$(18 (19 low() { 20 while true ; do	drife environment	ld.zm.cache ld.zm.conf	network.d/ nzcd.conf	recurrity?	
bala tions	19 may 20 Bloop that creates pages with \$limit pics plus links at top and bottom	19 hc set Frame_bg_transparent \${Frame_bg_transparent-1} 20 hc set window_border_normal_color \${window_border_normal_color-\$bg}	builtin cd \$DOT	19 IFS: 20 if stest -der -n "Scache" SPATH, then	21 while [\$(level) -gt 5] [] [-z "\$(discharge)"], do 22 sleep 60	/etc) of /usr/share	ait-core/		1	
bst colortestt	<pre>22 Horeates the actual image tags 23 Horeates the actual image tags 23 Horeates "faither" "their" "their"</pre>	<pre>22 hc set window_border_width \${window_border_width-1} 23</pre>	9 git dog // "017" 1 git commit "017" 1 git commit "017"	22 else	24 zenitywarningtext "Battery very low."	alsa/ application-registry	y/ pitk?	0.0 f	reber/	
crap* det	24 ((count++)) 25 Mput nav links and close the pame.	24 hc set default_frame_layout 3 25 hc set focus_follows_shift 1	11)	24 Fi 25)ISDACHU)	26 done	autoconf/ autoconf/ automake=1.13/	plib-2.0/	80-12 81-12	icontrol/	
fet install-grubt	26 test \$count -ge \$limit 60 { 27 naw	26 hc set raise_on_focus 1 27 hc set always_show_Frame 0	13 alias s='sudo' 14		28 29 \$1	awah:/ awk/ bash-completion/	pnome-background- pnome-control-cor pnome-doc-utils/	popperties/ pkga poli	t-1/	
Lid*	2d ((Page+))	20 hc set Focus_Follows_Mouse 1	15 alias zshrc="\$EDITOR \$HOME/.zshrc"	20 EE -d \$cmd && \$cmd != .]] && cd "\$cmd" && cmd="brus"		bibletime/	pobject-introspec	tion-1.0/ 9990	bject/	
skap3*	31 done	31 hc keyunbindall	14 alias al="sEOITOR /home/ninjaaron/.aliases" 14 alias honks" <eoitor .aliases"<br="" home="" ninjaaron="">19 alias honks"<eoitor docs="" heb="" honk="" th="" tst"<="" www.work=""><th>31 case "\$ced" in 32 . 1 H fm makes a list of files in all subdirectors and meens th</th><th>1 H/bin/bash</th><th>ca-certificates-jav.</th><th>a/ graff/ grub/</th><th>rea</th><th>and /</th><th></th></eoitor></eoitor>	31 case "\$ced" in 32 . 1 H fm makes a list of files in all subdirectors and meens th	1 H/bin/bash	ca-certificates-jav.	a/ graff/ grub/	rea	and /	
picpage*	33 may 1	33 Rod=Rod4 34 hc keybind Control_Alt-BackSpace quit	20 alias hla="\$EDITOR +/.config/herbsiluftwm/autostart" 21 alias hlf="\$EDITOR +/.config/herbsiluftwm/func"	133 Én & 1		caler/ color/	21k-3.02	- Kar	od-color-profiles/	
par* these*	35 exit	35 hc keybind \$Mod-Shift-r reload 36 hc keybind \$Mod-Shift-c close	22 alias hts="\$EDITOR +/.config/herbstluftwe/swap" 23	35 these) H changes the color scheme 36 these=\$(ls \$HGRE/.thesesised '/Ad/d ; /+\$/d ; /wres/d*l\	5 SOURCE \$HOME/.dmenurc 6 DMEMU="\${DMEMU-dmenu} -1 60"	common-lisp/ cracklib/	atk-pnginps/ atkhtml-3.14/ atkzpurzeview-3.0	227 zuby 200	version/	
 config-herbstluftwall config-herbstluftwall 	bin/picpage 33.2 All	37 hc keyoino șnoo-x close	e' a packageanagent 25 alias p\$c''soudo pacean -5" 25 alias p\$c''soudo pacean -5"	37 SPRENU -P 'Energy') 38 theme \$themes	d H this is actually the last function called. Customize be	dblatex/ dbuz-1/ dconf-ed;tor/	hrprll/ hrprll/ hudata/	111	d/ tond/	
autostart*	a wa swapi wa wie, twato	40 hc keybind \$Rod-Return spawn urwytc 11 hc keybind \$Rod-apostrophe spawn \$conf/swam stack spawn urwytc	27 alias pigu="sudo pachan -Sgu" 24 alias pRes"sudo pachan -Re"	40 #vicpl"in -s") H helpers for selecting files	10 open() {	desktop-directories devhelp/ dict/	/ ildn/ iana-etc/ icon-naming-utils	tabi ta/ ter	rot/ sinfo/	
restartpanels.sh* swap*	4 # Functions to give herbstluftwm some dynamic tiling behaviors. 5 # by Aaron "ninjaaron" Christianson <ninjaarondymail.com> 1</ninjaarondymail.com>	42 hc keybind Mod4-d spawn \$HOME/bin/dm 43 hc keybind Mod4-comma spawn \$conf/swap waster_spawn \$HOME/bin/dm	29 alias pU="sudo pacman -U" 30 alias y="yaourt"	<pre>H2 EE -z \$sour 1] S& exit H3 dest=\$(Find -L \$HOME - type di\$OMENU -p "\$cwd \$sour DEST:")</pre>	12 *.skul*.soul*.aui*l*.flu*l*.ogul*.sp4*l*.s4ul*.sp31*. splayer "\$sel" &	diogener/ divu/ duc/	iconz icu/ Inagphagick-6.d.i	/ 59%	fedirt/	
 config-zathura/ keyboardz/ 		44 hc keybind Rod4-period spawn \$con6/swap stack_spawn urxvtc 1 45	31 alias yšyva="yaourt -Syva" 32	44 [[-z \$dest]] S& exit 45 \$cmd "\$sour" "\$dest"&	19 15 *.pdf(*.ps(*.djvu_)	dtdr PRACZ	nfo/ nkrcape/	thur	bnailers/	
ncspcpp/	d BRR auto 9 H Swaps client in and out of "master" or "stack." If there is only on 10 H "subd" colice it Evands kending in herbeluGhan's subgraps. 1	Wh is contained shift-F3 spawn \$KONE/bin/light dub	33 alias agle's apt-get purge' 34 alias agge's apt-get purge' 35 alias agge's apt-get purge'	46 (c) R launch interactive programs in a terminal. 47 man)	10 Bathura "SSEL" N 17 14 t Jonit picit ppp 1	enchant/	ack-audio-connec	tion-kit/ trar valo	selssion?	
- vis/ aliases	11 H hc keybind \$Mod-semicolon spamn /PATH/T0/swap auto 1 12 HHH stack.spamn	49 hc keybind XF&BRudioRaisePolume spawn pamixerincrease 5 50 hc keybind XF&BRudioLowerPolume spawn pamixerdecrease 5	36 alias agdu='s apt-get dist-upgrade' 37 alias agac='s apt-get autoclean'	49 ((FS=1) 50 find s(manpath))	19 gqview ssel &	aler!	keyutils/ lantop-medestanl	/	(
daenurc apdconf	13 H Focuses stack and runs command, good wrapper for terminal: 1 14 H hc keybind \$Rod-period spawn /PATH/TO/swap stack_spawn xterm 1	51 hc keybind XFd6AudioRute spawn pamixertoggle-mute 52 hc keybind XFd6AudioPlay spawn mpc toggle	3d alias agar='s apt-get autoremove' 39 alias aar='s add-apt-repository'	51 sed -n 's/.t//(.t/).1.gz//l/p'lsort1 52 \$DMENU -p "wan:")	21 *.xfc) 22 gimp "\$sel" &	pealetool/	Libcaca/ Libguvi-scripts/ Librarian/	web web	totk-1.0/	
Pentadactylrc Pystart.py	15 RMM master_spann 16 M _ moves clients in master to stack and runs command, possible wrapper[53 hc keybind XFd6AudioNext spawn mpc next 54 hc keybind XFd6AudioPrev spawn mpc prev	40 allas acs="apt-cache search"	53 Urxvtc -e \$SHELL -c "Wan Sentry"	23 *.odpl*.odpl*.odgl*.doc)	ocenii/ odb/ odm/	Libtool/	#140 811 x2b		
VIPACC	17 R - GHERU_FUN: 18 H - hc keybind \$Rod-comma spawn /PATH/TU/swap master_spawn dmenu_rui	55 hc keybind XF&bSteep spawn \$HOME/bin/pwr	H2 31135 grub-upbate="Subb grub-AkconFig -D /000t/grub/grub.cFg"	55 you tube-viewerx i corr tube i view i view i view i nanos incepceptice er i 56 wicd-curses i nfot weechat-curses i htop i yaour tti "wan "t)	25 LIDEDFFICE "SSEL" %	gedit/ gesclue-providers/ getopt/	licale/		eensaver/	
Xresources zerofile	20 M If client in master frame is closed, it is replaced by a client from 20 M If client in master frame is closed, it is replaced by a client from 21 M stack. If stack is empty, it's removed, used like himm "close" comm	5d H Lags 51 Tag MARSs((13) e w)	45 alias reboet="sudo shutdown -r now" 46 alias halto"sudo shutdown -h now"	50 (1) 50	24 FireFox "\$sel" &	phortzeript/	san/	100	ty/	
zshenv zshrc		50 TAG_KEVS=(`{13}'q`w`) 51	47 alias sus="sudo pm-suspend"	60 echo "\$cmd"1\${SHELL:-"/bin/sh"} & 61 esac	30 *) H with undefined extentions, open vim. If the dire 31 H somewhere in \$HOME, ask for sudo.	dist Just / shares of bin	sispink/	install-archt 1	labbe maaileet	thoust
<pre>html/ molokai/</pre>	24 # CONFIG # 25 # split_direction = frame split's orientation. "horizontal" or "vertical!	52 hc rename default "s(TAG_NAMESEO3)" 11 true 53 for i in s(TAG_NAMESEO3) ; do	49 H misc command shortcuts 50 alias ls="lscolor=auto -F"	62 63 exit	32 16 EE \$(PWD/A\$USERA/\$USER) != \$USER 1] \$6 33 EE \$(Echo -e "\$\nn"(\$DREAU -p "\$udo?") = \$ 1] ; the	autorurt baraction	t brt det colortertt int	kbcycle:	kep3t plapaget	wiki.zes
· PS/	20 W Spiric Jacio Determines Spiric's totation, value Detween 0.1 and 0.5 27 W Stack_layout = stack's huw layout, "horizontal" "wentical" "wax" "grif 24 W plack Groups - Gram Gor plack Detwolfed labouten/right demailer Graf.	by Reg-Stinu_RCTS[51]} b5 hc add \${TAG_RANES[51]} b5 hc webind \$RANES[51]}	SE alias istantis nen SE alias istantis nen El alias istantin alban	L Variance L	35 exit	de fault	/keyboards/ane	pless seal wid.		
sleepless	29 split_direction="Morizontal" 30 split_ratio="0.6667"	67 hc keybind \$Mod-Shift-\$key wave_index \$i	54 alias dfa"df -h" 55 alias dus"du -h"	3 set nocompatible backspace=indent.eol.start history=50 nowrap moul 4 set ruler showcwd incsearch lbr expandiab tabstop=2 shiftwidth=2	37 urwyto -e sh -c "vim "\$PWD/\$sel"" 38 Fi	partial alphanumori xkb_rymbol; "ane" (c_kogr			
	31 stack_layout="vertical" 32 stack_Frame=1	59 Nhc keybind \$Mod-w chain : add web : use web : spawn FireFox : \ 1 70 N keybind \$Mod-w use web : keybind \$Mod-Shift-w move web I	56 alias grep='grepcolor=auto' 57 alias f='find -L -name'	5 set nu cursorline wildmenu wildmode=list:longest.full 6 let g:SuperTabDefaultCompletionType = "context"	39 Esac 40 }	nake Coroup13: " key:type[group13:	USA _ ADE Tranzeript: "FOUR_LEPEL";	on Characters";		
	33 W Here ends the section for users W 34 W three little functions used over and over.	71 72 H layouting	54 alias who"while" 59 alias ast="autosus toggle"	7 syntax on d filtype plugin indent on	N1 N2 H use 'find' to get the entire contense of \$HOME recursive N2 H use 'find' to get the entire contense of \$HOME recursive N1	key (LSGT) 5 5	rection, plurnings,	rection.	glussious 3 2	•
	36 37 set wars() { NUM some wars need to be set more than once.	74 hc keybind Shod-u split vertical Data Shod-Space Cycle_Lagoot 1 1 1 75 hc keybind Shod-u split vertical Data 1 5	61 62 alias has'taux attach -d' Hopens a window with the last hous seal	10 11 if has("eui cunning") colorscheme molokai	44 44 45 - B ceally long subshell supplies the file list and hides	Kony (ACO1) C C	1 ovelar	trademark.	EuroSign 1	
	3d dump=(\$(hc dump)) H put the content of hc dump into an array 39 H values based directly on the dump	76 H split more precisely 77 For i in (1.,9), do	63 alias w3g='w3m -cookie google.com' 64 alias png="ping google.com"	12 else colorscheme cterm 13 endif	46 H Files. In \$HIME, hide hidden Files by default unless 47 H selects 'unhide.'	KON CHEDS C C	y dollar percent	infinity;	urag2 1 21 //	2: // Si Ligature
	40 Ratio=\${dump[1]#*.} H make the division of primary frame an int 41 drientation=\${dump[1]??:*} H frames split horizontal or vertical	78 hc keybind shod-Alt-și split horizontal 0.și 79 hc keybind shod-Control-și split vertical 0.și	65 alias alsi="alsi -a" 66 alias td="transmission-daemon"	14 " autocad stuff 15 augroup viarcEx	48 MERUE\$(IFS="	koy (1207) C C koy (1200) C C	d astorizi parenteri	enfilledcircbul ordfeminine,	doubledagger 1	
	Hd Framestouwpillenki; = Frame with accave client H3 EmptyDestdump[3] Hml} = empty frames = ')', same for following 2 vars = H EmptyDestdumpfs/Human frameworks.accave.client H EmptyDestdumpfs/H H H EmptyDestdumpfs/Human frameworks.accave.client H EmptyDestdumpfs/H H H H H H H H H H H H H H H H H H H	au cone al he keybind \$Mod-space cycle_layout 1 al he keybind #Modespace cycle_layout 1	br alias ta="transmission-remote -a" 6d alias tl="transmission-remote -l" 50 alias tb="transmission-remote -l"	16 autocad bufRead /tap/pentadactyt.txt	50 1F [[\$[FMD/\/NDMEX/\/NDME] = /NDME]] (Inen 51 52 is II frame = bidden 13, then	kny (4511) C C kny (4511) C C	minus, underscore, equal; plus;	endarh, notequal,	pluzminuz 1 2;	31
	45 EmptyAll=\${dump[1]H*;}:EmptyAll=\${EmptyAll:1:1} 4 How abcolute values from dump to stack/	43 hc keybind SMod-s Floating toggle	70 alias di="diatheke" 71 alias dk="diatheke" + WFT -k"	19 autocmd bufRead /tmp/uzbl_edit* source /home/ninjaaron/.vim/pen autocmd bufRead/pst *	53 Find -L.I sed 'Let'd & /Ubuntu dor/f Hs ds hs t f ps as h'	key (1001) \$ 5	3; 5	: uzzlije	DE 1 doublelowquotemark)	31 // zummation (capitol
	<pre>47 if [[\$stack_frame = "d" "\$split_direction" != "\$drientation"]] 44 then [\${Ratio:0:1} -ge 5] \$\$ stack=1 stack=0 </pre>	d5 hc kegbind \$Mod-p pseudotile toggle d6 hc \$contract	72 alias dh="diatheke -b 05AH6 -k" 73 alias mpp="mplayer -playlist"	<pre>21 \iftine("'\") > 1 Sk line("'\") <= line("\$") exe " 22 autocmd vimenter * if !argc() MEROTree endif</pre>	55 echo "hide" 56 else	KP9 (4003) C C		doad_acute;	U2030	21 // permille
	<pre>49 else stack="\${stack_frame:-1}" 50 fi 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</pre>	87 88 H some keybindings like to change on different hooks.	74 alias nh="sudo nethogs eth1"	23 autocmd bufenter * if (winnr("\$") == 1 && exists("b:MERDTreeTyp 24 augroup END	57 Find -L . 1 58 sed "7/// /d : /ulconF/d : /*\$/d : /Ubuntu dne/{ H: 59 sed: "2// /d : /ulconF/d : /*\$/d : /Ubuntu dne/{ H: 50 sets: sets: sets: find -L . 1	Key (4006) C C	1	dead_diaproziz	diaprosis i	21 // circumflox
	<pre>S1 if [[\$drientation = "horizontation" & stack = "in light then S2 if acknow acterial participation action a</pre>	90 while read line do	77 A B find processes that match a conex	26 "waps and commands and so forth	50 Fi	key (4010) { {		Greek_pi	Copping the second	31 // product (capitol Pi
	54 elif E[s0rientation = "vertical" &% sstack = "1"]]; then 55 stackD=d, masterD=u, emptyStack="SEmptyl", emptyMaster="SEmptyD"	92 B remove the gap 93 nogap) herbstolient chain : set frame_gap -1 : \	79 psg() { ps auxigrep "\$27'igrep -v grep; }	24 command Pa PoomToggle asciidoc 29 noremap <c-n> :NERDTreeToggle<cr></cr></c-n>	62 else 63 Find .lsed '/-\$/d'	key (AD12) C thra	acketleft, braceleft cketright, braceright	: UBERE: Fights	ringlequetemark) }	<pre>c // lost half-ring (ayin) (// right half-ring (alos)</pre>
	56 elif [[SUrientation = "horizontal" SK Stack = "0"]], then 57 stackDel, masterDer, emptyStack="SEmptyD", emptyMaster="SEmptyD"	<pre>94 set window_gap \${window_gap=-1} : keybind \$Rod-0 emit_hook " 95 set frame_border_width \${frame_border_width-1} :\</pre>	d1 =() { d2 [[-n \$0]] \$6 [[-e \$0]] \$6 pwner=\$(ls -1 \$0]cut -d" ' -f3) \$	30 command Diffdrig vert new I set bt=nofile r ++edit H Od_ di 31 \ winced p diffthis	64 F1) 65	key (8581: 5 5	e	· #5128-	ficing 1	3
	59 stackD=u; wasterD=d; emptyStack="\$EmptyD"; emptyRaster="\$Empty1"	97 pad 1 špad 1. 97 pad 1 špad 1.	dia Hecho - n "sudo [V/n]? " 60 read sudo súc [E \$[sudo:-y] = y]] 601 dia Sudo \$[V/n]? " 60 read sudo \$[E \$[sudo:-y] = y]] 601	33 " syntax toggling 34 Euncting! ToggleSuntax()	67 case Ssel in	109 01003 1 1 109 01004 1 1 109 01005 1 1		dead_belowdet	dead hook a	
	61 [\$Frame = \$stack]%% act=\$stack0 %% inact=\$master0 { act=\$master0; inact=\$stack0; }]	<pre>99 gap#) gap=\${line/gap /},aPad=(\$pad) 100</pre>		35 if exists("g:syntax_on") syntax_off 36 else syntax_enable endif	69 exit :: 70 hide)	koy (ACOL) C C koy (ACO7) C C koy (ACO3) C C			ult24) unchalf) k	
	63); set_vars H do all that stuff I just said [] 64 []	101 aPad[\$1]=\$((\${aPad[\$1]} + \$gap - 1)) 102 dome	dd H 'cd' gets you where you're going! d¶ cd() {	37 endfunction 38 "hebrew wode toggle	71 show=normal 72 sparch ()	10 01000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	micolon,1, colon,	usosa .	there 2.25	24
	55 AND FUNCTIONS CALLED BY THE LUSER 11 56 AUTO() { HHM SWAP but of the current frame into the other. 11 57 June 1990 1991 1991 1991 1991 1991 1991 199	103 neroscolor chain : \ 104 set frame ap "-\$ap" :\ 105 cat window over the cat frame border width D .\	<pre>Si [-2 "51"] % Builtin cd > 11 Builtin cd "51" 25 /880/Mull 11 1 Si builtin cd >/"51" 25 /dev/mull 11 { Si builtin cd >/"51" 25</pre>	40 if %1:rightleft == 0 set rightleft keywap=hebrew	74 showshidden	key (4001) 5 5	2. Z.	· Athenes	dead_codilla]	25
	6d chn shift -e Sinact H move client to inact frame. [] 59 ["SemetyInact"]= ')'] 56	106 pad 0 \${aPad[30]}:\ 107 pad 1 \${aPad[30]}:\	93 Found=(\$(Find -L , -type d -name "\$1" 2> /dev/null)) 11 [Found=(\$(Find , -type d -name "\$1" 2> /dev/null))	42 endFunction 43 " create bindings for insert and normal mode together.	76 *) 77 browse "ST"	kmy (8003 C C		ccedilla rquarprost	C200111a 1 U25CA	
	70 cnn cycle -1 , shift -e sact , focus -e sinact , cycle 1 11 71 else H one Frame? split it. move client to new Frame, set stack layout]	104 Keybind SRod-O emit_hook nogap 109 expand) herbitlient Sexpand	15 IF -n "\$found"], then 95 cdlist	44 Function! Dualbind(key.command) 45 Exe "noremap (Leader)", a:key a:command	79 3	key (8605) C C key (8607) C C key (8608) C C	CONRA, 1022	dead_macron	threequarters 1	£
	73 ["Split_direction" = "horizontal" [Starb hanut 74 chn focus - totackh , spl launut fotack hanut	11) esac 11 esac	found=(\$(Find -L + -type d -name "\$1")) cdlist	47 endfunction	ou &1 H browse files one directory at a time, the only way out AP H into browse(). However, when tsel is a file, browse() b	key (Abid) ((rlash; question;	apagerpyon, or	questiondown 3 2	
	75 [\$stack = 0] 80 chn Focus -e \$master0 [] 76 Fi, hcc "\$cmds" []	113 114 W switch to different layouts directly		49 Let mapleader=":" 50 " settings	43 H off to open(). This is a result of how the program orig 44 H I've thought about changing to go directly to open() fr	include "level3(r.	alt_rwitch)"			•
	77 } 74 stack_spawn() { HHH spawn applications in the stack.	115 hc keybind \$Mod-Alt-v set_layout vertical 116 hc keybind \$Mod-Alt-h set_layout horizontal	102 ls 103 }	51 nnoremap (silent) (Leader)sy :call ToggleSyntax()(CR) 52 call Dualbind('1', 'ccall ToggleHebrew()(Cr>')	d5 H but I spent my time writing this sentence instead. d6 browse() {	23 D				
	40 if [-z "\$EmptyAll"], then \$2, auto, else he focus -e \$stackD, \$2, 1	117 HC Keyana Shaamitem set_tayaat max 118 hC Keybind Shad-Alt-g set_tayaat grid 119 hC "Astro Vinday" taan stuff	105 cdlist() {	54 Let settings = [['fi', 'foldwethod=indent'], ['tw', 'tw=72'], ['W	dd cd "Ssel" 49 selas(is -alsonfoul -o "spon-")	1 111		5.2%] Tasks 2.621 Load	: 66, 45 thr. 1 ru	nning 0 16
	<pre>d2 master_spawn() { HHH spawn applications in the waster. [] d3 if ["\$EmptyAll" = ")"]</pre>	20 hc keybind \$Mod-sewicolon spawn \$conf/swap auto 121 hc keybind \$Mod-slash spawn \$conf/swap close	107	56 exe "call Dualbind("".keg."", ":set" setting." <cr>")" endFor 57 " saving and quitting</cr>	90 [[\$sel = .]] 80 break 91 done	3 11		2.0% Upti 2.6%	E: 10:47:05	
	49 then \$2 45 else H moves all the clients in master out and then spawn 11	122 I resizing	109 done 110 ccho -n "which? "	58 For key in [fw1, fg1, fx1] 59 Exe "call Dualbind("".key."1, f:".key."4CR>1)" endfor	92 93 case sel in	NEREIIIIIIIIIII Swp[622/ 0/	165986		
	<pre>d7 while ["semplyRaster" != ')']; do</pre>	125 hc keybind \$Mod-Control-h resize left +\$RESIZESTEP	112 builtin cd "\${found[\$sel]}"	61 For [key, Ft] in [['a', 'asciidoc'], ['p', 'python'], ['s', 'shi be non "moreman (inader)6" key " .set filetunes" ft "(CE)"[endior]	5 search ;;	Playlist (8 items,)	length: 35 minutes, a	(5 seconds)		Volume: 35%
	49 done."\$27	127 hc keybind \$Mod-Control-k resize up +\$RESIZESTEP 128 hc keybind \$Mod-Control-l resize right +\$RESIZESTEP	114 builtin cd "\$found" 115 fi	63 " Window Hundgement 64 For key in ["b", "j", "k", "l", "B", "j", "K", "L"]	97 exit0 98 *)	Time Artist	Title/F	ilename	สบ	NUC
	22 close() { HHH close client. Fill master if empty. remove stack if empty.]]	120 M mouse 1	116 } 117 H remete the rise of the Grasshuffer for the time	1 65 EXE "Call Gualband(".key.", "Guakey.")" endfor 1 66 " get ya some output from shell commands 1 7 monoran (mathematica) 1 (0)(0)	9% OPENNE 00 ESAC	Playing: Christian	Penguir Perni "Lovectroop Ste	luce Edition35 (Lov 2011.) - Propuio	vestiong [veluxe tol(ion]
	99 [\$emptyHaster = ')'] 60 hcc , focus -e \$stackD , shift -e \$masterD6011 99 [\$emptyHaster = ')'] 60 hcc , focus -e \$stackD , renove	132 hc wousebind shod-Auton1 wove	119 Fbg() { 119 Fbg() { 120 F - 2 "537"] 56 Fbget -0 1600 900 1600 900 37 [] Fbget -0 "537" "51	bit whoremap (Leader)sh dwordEsc>p:.lsh(CR>Dd\$'vPjdd'v 11 bit whoremap (Leader)sh dwordEsc>p:.lsh(CR>Dd\$'vPjdd'v 11 bit nonremap (Leader)sh 11 bit nonrem	02 02 03 W the search() is the default behavior, but I also have b	+		ds: Arch Linus xd	16_64	Entrany (trans
	96) 97 \$D;exit H do something and exit	134 hc mousebind \$Mod-Button3 resize	121 3 122	70 vnoremap <leader>py :!python<cr> 1 71 " pasting 1</cr></leader>	09 B allased to 'brws', so when invoced that way, it runs br 05 if [[\$0 = *brws]];	H H	H	Hostname: Folio Uptime: 10:44, 19	sec	
		136 H Focus 137 hc keybind \$Mod-backSpace cycle_monitor	123 H opens a twox session with an optional command 1 124 tm() { twox new-session "52" 1}	78 vnorewap (Leader)c "+y 73 inorewap (Leader)v ^0"+P	06 then sel="\$PW0" && browse 07 else search			Shell: /bin/zsh	IKCH	
		139 hc keybind \$Mod-Shift-Tab cycle_all +1 139 hc keybind \$Mod-Shift-Tab cycle_all -1	126 MM looks up a word using the local dictionaries	176 delfenction Bulbind		+88,8		Window Manager: H GTK2 theme: Dark1	lerbsltuftWA	
		141 hc keybind \$Mod-h Focus left 142 hc keybind \$Mod-j Focus down	128 HH looks up a word using remote dictionaries 129 Hdr() { dict -h dict.org "\$^"!vimpager, clear, }					GTR2 icon theme: GTR2 font name: t	Faenza-Darkest hitocra 10	
		193 hc keybind \$Mod-k focus up 199 hc keybind \$Mod-l focus right 196 hc keybind \$Mod-l inclusion					1888	CPU: Intel(8) Cor Home: 156 / 946	re(TR) 13-23678 CPU (16%) (btrfs)	2 1.406Hz
		196 hc keybind SMod-Shift-h shift left				нинниний.	. НИНИНИИ *	Root: 6.36 / 116	(65%) (ext4)	
		NA he keybind thad-Shift-k shift up				,11111	нння			
		149 hc keybind \$Mod-Shift-1 shift right				_HH.	(HH)			

1 2 3 " Press ? fo ... (up a dir /home/ninjaa

2 3 😤 Ø I									5073-05-5	1, 50:31
ess ? for help	H!/bin/bash H wake htwl documents containing all of the pictures in a folder.	1 H//bin/bash	1 H!/bin/bash I 2 H wake a thumbnail for an image I		discharge() { acpilgrep Discharging {}	bash.bash_logout bash.bashrc	proup.pacnew 1	toprotate.d/ parred parred parred parred	- Judopry.te	ap.
e/ninjaaron/	limit=\$1 Hsets how many pictures per page	3 cheod +x +/, conFig/herbsturtum/x +/bin/x +/, themes/kresources-gen 4 conFi"SHORE/.conFig/herbstluFtwm"	pic="\$1"	3 A this script started it's tire as owenu_run	<pre>b tevel() { acpliese 's/.hing, \(.h)2.h(1/. 1) b psg() { ps auxigrep 's2'igrep -v grep, }</pre>	bdseditra binset.d/	orhadow- orhadow-pacnow M	takepkg.conf pcncia tan_db.conf pkcrll	systemd/	<u> </u>
ic/ ic/	dir='pwd' bhillionnad// d/laine -10// diliaine 1))	5 Kittatt Herostlient 6 J Winnehimm haft / Ammerkelient Mettl. 5	s name="echo "\$1"/cut -d"." -F1"	6 source SHORE/.deenurc	<pre>sleepless="\$HOME/sleepless"</pre>	calerd.conf	otk-2.0/	torcurial/ polkit	-1/ tapsilor.d	di egikegi
is/	IFS="	d hc() { cmds="\$cmds :H: \$2" }	convert -scale \$scale "\$pic" "\$name"-thumb.png	d Bathartean there thin"	10 toggle() {	conf.d/ conks/ cron.d/	hosts and	kinitopio.coni profil kinitopio.coni profil	e vdpau_erap vdpau_erap	pper.cfg
	I H function for navigation links	10 hc emit_hook reload	10 exit	10 cachedir=\${X0G_CACHE_HOME:-"\$HOME/.cache"} 11 if F =d "Scachedir" T: then	12 }	cron.deny cron.hourly/	istab ImagoRagick/	adprobe.d/ pulre/ aduler-load.d/ c.d/	wantra Wied/	
bitocra/ 1 dotFiles/ 1	<pre>[\$page -gt 1] 6% echo " br>< previ echo " br>" >> pics"\$page".html</pre>	12 H defaults 13 themes\$(cat +/.theme) 11		12 cache=\$cachedir/dmenu_run 13 else	14 idle() { 15 [-m "\$(discharge)"] 60 [-z "\$(psg mplayer)"] 60 [!	aron, wookly? arypttab	prouto2/ ptable//	pd.conf re_map	r.cfg.pacnew xdg/	Canter
· bin/ 1 alarm* 1	I Espage -eq stotalPages [%% echo " << First page echo " next page >	19 source -/. themes/stheme 15 pad=s(pad:-11 1 1 1)	1 H vim: filetype=sh I 2 H git aliașes I	14cache=\$HOME/.dmenu_cache H iF no xdg dir., Fall back to dotFile 15 Fi	16 sudo pa-suspend-hybrid 17 }	dbuz-1/ default/	java-7-ogenjdk/	uttra reques	t-key.conf xel/ t-key.d/ yapertra	
autosus* 1		Is no set Frame_border_active_color \${Frame_border_active_color-\$Fg_c 17 hc set Frame_bg_active_color \${Frame_bg_active_color-\$bg_color}	a attas gergstr	16 17 cmd=\$(10 low() {	dheped.conf drire	laptop-mode/ n	toteonig rpc totwork.d/ zocure	itty	
baraction*	s Refore the First page 1 nav	id no set Frame_bg_normal_color s(Frame_bg_normal_color-Adduddd) 19 ho set frame_bg_transparent \${frame_bg_transparent-1}	push-conFigs() (10 IFS=:	<pre>20 while [\$(level) -gt 5] [] [-z "\$(discharge)"], do</pre>	ib.modez /otc> cd /usr/share	td.zo.coni.d/	szwitch.conf zervic	(e)	
brest -> /howe/nil	For pic in *(jpg.png.gif.svg).do	<pre>c</pre>	d git add '*'	21 echo -e ".\n\$(stest -Flx \$PATH sort -u)\n\$(ls)" tee "\$cach 22 echo -e ".\n\$(stest -Flx \$PATH sort -u)\n\$(ls)"	23 done 29 tenity severation setext "Mattery yery low "	actocal-1.13/ alre/	a tk	splayer/		
colortest*	<pre>echo "<ing src='\""\$dir"/"\$pic"\"'></ing>" >> pi ((count++))</pre>	P hc set default frame layout 3	10 git push origin master	23 cat "\$cache" 24 fi	25 sleep 10m	applications/ apr-1/	pladpy plib-2.0/	packan/ pavucontrol/		
det Fet	test Scount -me Slimit 60 f	25 hc set focus follows shift 1 26 hc set raise on focus 1	12 j 13 alias s='sudo'	25 JI\$DREMU)		automake-1.13/ avah:/	onemer onemer onemerbackorpund-p	pixmaps/ pixmaps/ pixmaps/		
install-grub* 2 kbcycle* 2	nav ((page++))	27 hc set always_show_frame 0 20 hc set focus_follows_mouse 1		27 H if the user selects a directory, go there and execute brws. 28 echo \$cmd	29 \$ 0	bash-completion/ bdfedit/	anoso-doc-util/	popplor/ pul/paudio/		
lid# 13 light# 13	count="""	29 30 H remove all existing keybindings	16 alias zshrc="SEDITOR SHORE/.zshrc" 17 alias vinrc="SEDITOR SHORE/.vinrc"	29 EE -d \$cmd %% \$cmd != .]] %% cd "\$cmd" %% cmd="brws" 30	bin/autosus 3,0-1 Bot	bizen/ ca-certificater/	prick graphi to2	pygtk)		
skthusb*	Binishes off the last page	II NC Keyündings	10 alias all"storius /home/hinjaaron/.aliases" 19 alias book="SEDITOR -/docs/my-work/heb/book.txt"	31 case "Scho" in 32 .] H FR makes a list of Files in all subdirectors and opens th	1 HI/Din/Bash	cale/ cmake/	arub/ art-pluginz-bare/	redland?		
picpaget 3	mal v mvš b	33 noo-noon 19 ho keybind Control-Alt-BackSpace quit	21 alias his-scoller // config/herbslufter/func"	33 FM 46 34 II channer the color scheme	y Pite ordesing with owend	colord/	atk-3.0	spectrum/		
these*		36 hc keybind \$And-Shift-c close	23 24 Il packannannent	36 theme=\$(1s \$HGME/.themesised '/#d/d ; /*\$/d ; /xres/d'l\ 37 \$DERUH =# 'themesis'	6 DHENU="\${DHENU-dmenu} -1 60"	cracklib/ cup/	tkhtwl-3.14/ tkzourceview-3.0/	zubvorzion/		
 config-herbstluftwalbi xbadxd/ 	1/picpage 33,2 Alli L W/bin/bash I	10 I I I I I I I I I I I I I I I I I I I	25 alias pš="sudo pacman -5" 26 alias pšs="pacman -5s"	3d theme \$themes	d H this is actually the last Function called. Customize be 9 H extntion here.	dbuz-1/ dconf-editor/ dockton-directorior/	hugata/	tilib/		
autostart* panel.sh*	3 HH SWAP! HH vin: tw=80	40 hc keybind \$Mod-Return spawn urxvtc 41 hc keybind \$Mod-apostrophe spawn \$conf/swap stack_spawn urxvtc i i	27 alias pšyu="sudo pacman -Syu" 28 alias pRs="sudo pacman -Rs"	40 mv(cpl"in -s") H helpers for selecting files 41 sour=\$(find -L , I\$DRENU -p "\$cmd SOURCE:")	10 open() { 11 case "\$sel" in	devhelp/ dict/	ana-ota con-naming-util/	terninfo/		
restartpanels.sh*	H H Functions to give herbstluftwa some dynamic tiling behaviors. I F H by Aaron "ninjaaron" Christianson (ninjaaron@pmail.com) I	H2 hc keybind Rod4-d spawn \$H0HE/bin/dm H3 hc keybind Rod4-comma spawn \$conf/swap waster_spawn \$H0HE/bin/dm	29 alias pu="sudo pacman -U" 30 alias ye"yaburt"	<pre>42 [E -z \$sour]] S& exit 43 dest=\$(Find -L \$HOREtype di\$OREMU -p "\$cwd \$sour DEST:") </pre>	12 *.mkv *.mov *.avi* *.flv* *.ogv *.mp4* *.m9+* *.mp3 *. 13 mplayer "\$sel" &	dieu/	InappRapick-6.8.2/	toxef/ toxef-dist/		
 conFig-zathura/ keyboardz/ 	H Usage H	H hc Keybind Mod4-period spawn \$conf/swap stack_spawn urxvtc HS	31 allas ysyua:"yadurt -Syua" 32	<pre>45 \$cmd "\$sour" "\$dest"&</pre>	19 15 *.pdf(*.ps(*.djvu_)	dtdz/	nfo/ nkzcape/	thumbna:lors tlpkg		
ncmpcpp/	HAN AUCO H Swaps client in and out of "master" or "stack." If there is only only	The keybind Shift-F3 spawn \$HOME/bin/light dub	34 alias ages's apt-get purge'	<pre>46 (C # taunch interactive programs in a terminat. 47 man)</pre>	17 A Mara arra and A	enchant?	ack-audio-connect	tion-kit/ transmission		
- Vim/	L H hc keybind \$Mod-semicolon spawn /PATH/TO/swap auto	19 hc keybind XFd6AudioRaisePolume spawn pamixerincrease 5 10 hc keybind XFd6AudioRaisePolume spawn pamixerincrease 5 10 hc keybind XFd6AudioLowerPolume spawn pamixerdecrease 5	36 alias agdu='s apt-get dist-upgrade' 77 alias agace's apt-get dist-upgrade'	49 (IFS=': 50 Find s(manyath))]	19 gqview "\$sel" &	(let)	kde4/ koyutil//			
daenurc 11 aedconf 11	B Focuses stack and runs command, good wrapper For terminal: 1 h hc keybind \$Rod-period spawn /PATH/TU/swap stack spawn xterm 1	hc keybind XFdSAudioAute spawn pakkertoggle-mute lack keybind XFdSAudioAute spawn mpc toggle	3d alias agar='s apt-get autoremove' 39 alias aar='s add-apt-repository'	51 sed -n 's/.*\/\(.*\).1.gz/\1/p'isorti 52 \$00ENU -e "Nan:")	21 *.xfc) 22 sime "tsel" &	fonts/ gcalctool/	Libcaca/ Libquvi-zcriptz/	wpbkitgtk-1. wpbkitgtk-3.	8/	
pentadactylrc 1 pystart.py 1	NHH master_spawn S H moves clients in master to stack and runs command, possible wrapper!	53 hc keybind XF&BAudioNext spawn mpc next 54 hc keybind XF&BAudioPrev spawn mpc prev	40 alias acs="apt-cache search"	53 Uravic -e \$SHELL -c "man sentry" 54	23 11 24 *.odtl*.odgl*.odgl*.doc)	GCon F/	1 bthail	w 20		
Viferc 11 Vierc 11	7 H dwenu_run: 9 H hc keybind \$Mod-comma spawn /PATH/TU/swap master_spawn dwenu_rul	55 hc keybind XF86PowerOFF spawn \$H0ME/bin/pwr 56 hc keybind XF86Sleep spawn \$H0ME/bin/pwr	42 alias grub-update="sudo grub-#kconfig -o /boot/grub/grub.cfg" 43	55 youtube-viewer*Ltorrtux*Lvif#*Lvi#Ltoi*Led*Lnano*Lnc#pcpFlc#atr 56 wicd-cursesLinFo*Lweechat-cursesLhtopLyaourt*L"#an "*)	25 libreoffice "\$sel" & 26 11	podit/ poslup-provider//	lecale/	x phore		
Sinitro Sresources	HHH close 1 H IF client in master Frame is closed, it is replaced by a client From		44 H power 45 alter boot="sudo sharen - now"	57 urxwt -e \$SHELL -c "\$c#d"	FireFox "\$sel" &	phirtraript/	txappearance/	sprity/		
zshenv 2	L R Stack. IF Stack IS EAPTY, 1C'S FERGVED, USED LIKE HIMA "CLOSE" COART F E R hc keybind \$Rod-slash spawn /PATH/TU/swap close	TAG_REVS=({13} q w)	at at a succession shuroown and	60 scho "\$cwd"1\${SHELL:-"/bin/sh"} &	*) H with undefined extentions, open vis. If the dire	Jur / theres of him	simplak/	sangin Fall		
htel/ solokai/	H CONFIG H H solit direction = frame solit's origonation. "borizontal" or "vertical A	2 hc rename default "s(TAG_MAMES[0])" 11 true	49 H misc mmand shorter		12 if EE \${PwD/AsuSERA/suSER} != suSER]] 56 EE \${PvD/AsuSERA/suSER} == "suder"] = 0.11 . the	alaret backupt aurt baractiont autorurt bolt	brez det bzt det colorteztt fet	install-grubs lights kbcycles skep3s ligh skthuebs	pidpaget wiki.zht	
Packages/ 2	5 H split_ratio determines split's location, value between 0.1 and 0.9 F 7 H stack_layout = stack's hlwm layout, "horizontal" "vertical" "max" "grif	<pre>bit key="stTAG_KEVSEsil]" bit hc add stTAG_MARES[sil]</pre>	51 allar (slev - lh"	bin/dm 58,6 will	<pre>35 urswid -e sh -c "sude vim -u SHORE/.vimrc "SPND/S 35 exit</pre>	bing doc/ ant/ aug	(net/ pic/ sleep	stern med widd		
d/ Fa	I M stack Frame = Frame For stack. D=top/left 1=bottom/right d=smaller Fra1 I I split_direction="horizontal"	66 hc keybind \$Mod-\$key üse_index \$i 67 hc keybind \$Mod-\$hift-\$key move_index \$i	53 alias Isla="Is -lha" 54 alias df="df -h"	2 "environment 3 set nocompatible backspace=indent.eol.start history=50_nowrap_mou	36 else 37 juravic -e sh -c "vim "SPMD/Ssel""	default partial alphanumeric_J xkb_rymbolr "ane" f	keyz			
1 3	split_ratio="0.6667" stack_layout="vertical"	64 done 69 Hhc keybind \$Mod-w chain : add web : use web : spawn firefox : \	55 alias grep:'grepcolorsauto'	Set ruler showcwd incsearch lbr expandiab tabstop=2 shiftwidth=2 S set nu cursorline wildwenu wildwode=list:longest.Full	34 F1 39 ESAC	include "ur (baric)" name (Group13: "USA	19 - ANE Tranzcriptio	an Characters";		
13	scick_Frame=1 I H Here ends the section for users N I H Here ends the section for users N I H Here and the section for users N I H Here and the section for users and the section for users N I H Here and the section for users N I H He	ro a keyoino șado-w use weo : keyoino șado-sni+t-w abve weo 71 - 17	Sr alias white while "	s ter gisuperiable-autocomplecionigpe = "context" 7 syntax on	1 40 g 1 41 1 93 W une l'éculà de set des entire contenes of 40000 securic	// wadeya	OUR_LEPEL";			
3	<pre>hc() { herbstclient \$0;}; hcc() { hc chain \$0;}; chn() { cmds="\$cmds , \$</pre>	73 hc keybind \$Mod-r remove , keybind \$Mod-space cycle layout 1	60 alignant='s mount'	set Thun IV, Romey 10 ges	(4) Parch() {	key (LSGT) C C / 200 key (LSET) C C / 1	grave asciitilde	dead grave, dea	id_horn 3 31	
	set vars() { HHH some wars need to be set more than once.	75 hc keybind \$Mod-o split horizontal 0.5	62 alias that thus alla the Hopens a with the last 1 sest	11 if su(" i sunning") (colorscheme molekai	H really long subshell supplies the file list and hides B Files. In SHIME, hide hidden files by default unless	key (AED3) C C key (AED3) C C	number zign	storling	Eurosian 1 2	
	H values based directly on the dump Ratio=\${dump[1]##.} H make the division of primary frame an int I	77 for i in {19}; do 78 hc keybind \$Mod-Alt-\$i split horizontal 0.\$i	th alias ange"ping goog		Hd selects 'unhide.'	key dent t t	aseiidireus	paragraph, doub	102 1 2: // st tigature	CCUP0
	L Orientation=\${dump[1]%%:*} H Frames split horizontal or vertical 1 } Frame=\${dump[1]#H*:} H Frame with active client 1	79 hc keybind \$Mod-Control-\$i split vertical 0.\$i 40 done	66 alles comit inspission-remote -a"	15 augroup vian Ex 16 aug	99 if [[\${PWD/\/home*/\/home} = /home]],then	kpy (4510) C C	arenteft B. garenright	ardfomining, period marculing, ringlelow	icontored 1 2	
	EmptyD=\${dump[3]==1} H empty France = 17, same For Following 2 vars EmptyD=\${dump[\${Homp[3]}-1]HH*:}:EmptyD=\${EmptyD:1:1}	11 hc Keybind \$Rod-space cycle_layout 1 12 hc Keybind \$Rod-space cycle_layout -1	64 alias ti"transmission-remote -1" 69 alias he"herbstellent"	17 autoced be Read /tep/pentadactys.txt 18 source /home/nnjaaron/.vim/pentadactyl.vim	51 52 if [[\$show = hidden]]; then		equal; plus;	notequal; plurmin	17 1 5t	
	Engrant-Stopperspectation for the start of the start o	3 hc keybind Shad-s Flating toggle	71 alias dk="diatheke -b MET -k"	autocad huffeadPost A	54 sed "/-\$/d : /Ubuntu One/{ H; d; }; \$ { P; X; }"	keg (4002) 2 2	81 B1	U2211 doublelow	iquotomarki 52 // summati	ion (capitol
	then [\${Ratio:0:1} -ge 5] & stack=1 stack=0	li he scontract	73 alias mpp="mplayer -playlist" 74 alias np="mplayer -playlist"	22 autocad visenter * if !argc() NEROTree endif 21 autocad bufenter * if (sincr("t") = 1 S6 mists("b-NEROTreeTwe	56 else	key (1004) C C	51 B	Ulter,	dagger 1 2: // permitt	le line below
	fi [\$Frame = "0"] @@ emptyInact=\$Empty1 emptyInact=\$Empty0	ad H some keybindings like to change on different hous. I herbstclient -il	75 ga herbstclient en hook "gap \$2 3	24 augroup EKO	<pre>sed "/\/\./d ; /ulconF/d ; /*\$/d ; /Ubuntu Une/{ H; echa "unhide"</pre>	key (8007) C C	1. I.	dead_diaeroziz; d	UD2CE 1 2: // circumi	FLOX
15	<pre>if [[\$drientation = "horizontal" 60 \$stack = "1"]]; then stackD=r; masterD=l; emptyStack="\$Empty1"; emptyBaster="\$Empty0"</pre>	90 while read line.do	77 78 H Fint Processes that waith a regex	26 " maps and commands and so Forth 27 mapclear mapclear!	a ^{F1}	kay (4011) f f brack	p) p)	Greek_si;	U220F 1 2: // product	t (capitol Pi
	stackOrd, wasterDrus, emptyStack="SEmptyl", emptyMaster="SEmpty0"	nogap) herbstclient chain : set frame_gap -1 :	n psg (ps auxigrep -v grep,)	20 CERMING PJ POEMTOSSIE JSCIICO2	Find .lsed 1/+\$/d1	keý (AD12) C Ebracky key (BKSL) C E backy	cotright, bracoright,	, UO26E, rightsingloqua uillematleft, auillema	itomark 3 2; 22 right hat stright 3 2;	lf-ring Galef
1 5	stack0=1, waster0=r, emptyStack="SEmptyO", emptyMaster="SEmptyD"	set Frame border_width \${Frame_border_width-1}	<pre>12 [[-n s0]] 66 [[-e s0]] 66 owner=5(ls -l s0[cut -d'F3)) 13 [[-n s0]] 66 [[-e s0]] 66 owner=5(ls -l s0[cut -d'F3)] 14 [[-n s0]] 66 [[-e s0]] 66 owner=5(ls -l s0[cut -d'F3)] 15 [[-n s0]] 66 [[-e s0]] 66 owner=5(ls -l s0[cut -d'F3)] 15 [[-n s0]] 66 [[-e s0]] 66 owner=5(ls -l s0[cut -d'F3)] 15 [[-n s0]] 66 [[-e s0]] 66 [[</pre>	31 \ I winced p I diffthis	155 155 selet(echo "terrou") toBENU -o "search toNo.")	key (8001) 6 5	7: 8:	86121:	06126 3 31	
15	stackD=u; masterD=d; emptyStack="\$EmptyD"; emptyMaster="\$Empty1" Fi	97 pad 1 spad I 98 H add the gap I	d4 Hecho -n "sudo [V/n]?" %% read sudo %% [] \${sudo:-y} = y]] %%! d5 sudo \$EDITOR -c "syntax off" \$D \$EDITOR \$D	33 " syntax toggling 34 Function! ToggleSyntax()	67 case \$sel in	key (ACD3) C C key (ACD4) C C key (ACD5) C C		dead_belowdel, d	lead hook 3 2	
	[§Frame = \$stack]66 act=\$stack0 && inact=\$master0 { act=\$master0; inact=\$stack0; } 1	<pre>99 gapt) gapt\$(lime/gap /);aPad=(\$pad) For ((i=0; i < \$(HaPadE0); i++));do </pre>	46 } 1 47	35 if exists("g:syntax_on") syntax_off 36 else syntax enable endif	69 exit 70 hide)	key (8205) C C key (8207) C C key (8208) C C			unchalf 1 2	
	1: set_vars H do all that stuff I gust said [1]	01 aPad[\$1]=\$((\${aPad[\$1]} + \$\$aP - 1)) dome	dd H 'cd' gets you where you're going! d9 cd() {	37 endFunction 38 "hebrew wode toggle	71 show=norwal 72 search \\	kon (4003) E E zonia	colon," colon,"	uzoza, the	THORN 3 21	
	a whe functions dated by the tuper into the other. If it is auto() { WHM swap out of the current frame into the other. If it is and it is a statement if it	<pre>is nerostclient chin : \ ist frame_gap "-\$gap" :\ ist side has a set frame_gap ".\ ist side has a set frame has a set frame has been a set of the has a se</pre>	<pre>90 [-2 "51"] %# Duittin cd / 11 Duittin cd "51" 2> /dev/mult 11 1 91 builtin cd //*51" 2> /dev/mult 11 {</pre>	40 Function: ToggleHebrew() 40 if &lrightleft == 0 set rightleft keywap=hebrew	73 unnice J 79 show=hidden	key (4601) 5 5	2, 2, 2,	, zzharg, dead	Lordille 12;	
16	chn shift -e śinact N nove client to inact frame. [1]	06 pad 0 \${aPad[2]} :	Founds(\$(Find -L, -type d -name "\$1" 2> /dev/null)) [] [Founds(\$(Find -type d -name "\$1" 2> /dev/null))	42 endfunction 43 "endfunction	76 *) 77 *)	kr9 (8003) C L		ccedilla.	Condilla 1 2:	
	1 chn cycle -1 , shift -e sact , focus -e sinact , cycle 1 [1] L else H one frame? split it. move client to new frame, set stack layout11	04 keybind Shod-O emit_hook nogap ;; 09 expand) herbstclient Sexpand ;;	95 if [-m "Sfound"]; then 96 cdlist	44 Function! Dualbind(key.command) 45 exe "noremap <leader>".a:key a:command</leader>	78 esac 79 }	key (4601) ((key (4607) ()	conne.	dead macron.	nad_tilde 1 21 nuarters 1 21	
	hc split split direction split_ratio; set_vars ["split_direction" = "horizontal"]00chn shift -e r II chn shift -11	10 contract) herbstelient scontracti; 1 11 esac 1	97 else (98 Found=(\$(Find -L + -type d -name "\$1"))	46 exe "inorewap <leader>".a:key "^0".a:command 47 endFunction</leader>	1 40 1 41 W browse Files one directory at a time, the only way out	key (8603) C C pi	stash, question,	dead breve, greatertha division, questi	andown 3 71	
		12 dones 13	19 cdlist	40 LEE Rapleader="""	82 H into browse(). However, when \$sel is a file, browse() h 83 H off to open(). This is a result of how the program orig	key (SPCE) C C	pace, space,	nobreakspace, nobrea	ikspace 3 2;	
	 Fit nee "Schoo" Fit nee (17, 200) Fit nee (17, 200)<th>15 hc keybind \$Acd-Alt-v set_layout vertical bc keybind \$Acd-Alt-v net_layout vertical</th><th>102 ls</th><th>51 nnoremap (silent) (Leader)sy :call ToggleSyntax()(CR)</th><th>1 45 W but I spent my time writing this sentence instead.</th><th>8 o</th><th></th><th></th><th></th><th></th>	15 hc keybind \$Acd-Alt-v set_layout vertical bc keybind \$Acd-Alt-v net_layout vertical	102 ls	51 nnoremap (silent) (Leader)sy :call ToggleSyntax()(CR)	1 45 W but I spent my time writing this sentence instead.	8 o				
7	<pre>Stit Span() { New Span Spittations in the statk. ("StaptyAll" = ')] & So II H just span if no other clients exist. []]</pre>	17 hc keybind Shod-Att-A set_layout wax	LOY LOY	53 call Dualbind (fr, 'Auge Togsteneores()(c) /) 53 call Dualbind (fr, 'Auge)(v) 54 let methions = FF(6) / Solderbondsindent/1 Fftw/ (bur20/1 Fft	d7 while [-d "\$sel"], do	1 1111		C 221 Tanke, 66 NG	the 1 cussion	
1 4	Baster spawn() f HHH spawn applications in the waster.	19 H "Haster Window" type stuff 10 hc Keybind SRdd-semicolon seawn Sconf/swap auto	106 if [\${#found} -gt 1];then for ((i=1, i <= \${#foundFDT}, i++));do	55 for [key, setting] in settings 55 for [key, setting] in settings 55 er "call bulbind("", key, "", ";set" setting, "(cr>")" endfor	<pre>39 sel=\$(ls -al\$DRENU -p "\$PWD:") 90 If sel = . 11 % break</pre>	ŝ		2.6% Load average: 2.0% Uptime: 10:47	0.09 0.11 0.16	
1 8	if ["\$EmptyAll" = ')'] then \$D	21 hc keybind \$Rod-slash spawn \$conf/swap close	108 echo "\${i}. \${Found[\$1]}"	57 " saving and quitting 50 For key in ['w', 'q', 'x']	91 done	9 ÊLÎ Mexetina di ji		2.6% 390286		
	s else H moves all the clients in master out and then spawn 11 [-z "\$EmptyAll"] \$6 auto 11	23 H resizing 24 RESIZESTEP=0.01	10 echo -n "which? " 11 read sel	59 exe "call Dualbind("".key."", ":".key." <cr>")" endFor 50 " Filetypes</cr>	93 case sel in	Swp[]	0/1	165986		
	hcc , Focus -e \$master0 , shift -e \$stack0 , Focus -e \$master0;set11	c Keydind SAD-LOATTOL-A FEIZE LEFT *SKESIZESTEP 56 hc keydind SAD-Control-j resize down +SRESIZESTEP 16 hc keydind SAD-Control-j resize down +SRESIZESTEP	113 else	exe "noremap (Leader)F".key " :set filetype=".ft " <cr>"lendfor</cr>	95 search ;;	Time detint	Title/Ci	iseconus;	d) hum	[c]-
19	fi li	I ne keguind snub-Lontrol-k resize op *skisizister Id he keybind \$Mod-Control-l resize right +\$RESIZESTER	LIS Fi	64 for key in ["h", "j", "k", "l", "H", "j", "k", "L"] 55 for Key Call Mulliad (" key " " Cay" key ") to adder	93 #) 99 #)	4:35 Christina Pere	ri Penamin		Lovestrone field	uxe Edition1
	<pre>close() { NHH close client. Fill master if empty. remove stack if empty.[]]</pre>	3 h mouse	17 17 18 B resets the size of the framebuffer for the thu	66 " get ya some output From shell commands 57 operana (leader)sh - 'sh(E)	100 ESAC	Playing: Christina Per	rri "Lovestrong FDel	Luse Edition" (2011) - P	enquin	F0:30/4:361
19	<pre>[semptyMaster = ')'] 60 hcc , Focus -e \$stack0 , shift -e \$masterD60 [] [semptyStack = ')'] 60 hcc , Focus -e \$stack0 , remove</pre>	22 hc mousebind \$Rod-Button1 move	119 fbg() { 120 [-z "\$37"] && fbset -g 1600 900 1600 900 32 fbset -g "\$37" "\$1	54 vnorewap <leader>sh d#ve<esc>p:.tsh<ce>Dds*vPjdd*v 59 nnorewap <leader>pg :.tpgthon<ce></ce></leader></ce></esc></leader>	102 103 W the search() is the default behavior, but I also have t		0	5: Arch Linux xd6_64		
	11 7 Socalt H do something and exit	34 hc wousebind \$Mod-Button3 resize	122	70 vnoremap <leader>pg :!pgthon<cr> 71 " pasting</cr></leader>	1109 H aliased to 'brws', so when invoced that way, it runs br 1105 if EE \$0 = *brws]];	H HH		Ostname: Folio Uptime: 10:44, 19 sec		
		The Reybind \$Mod-backSpace cycle_monitor	<pre>les # opens a twox session with an optional command les two) { twos new-session "\$2" ;} </pre>	re vnorenap (Leader)c "*y 73 inorenap (Leader)v ^0"*P	100 then sel="SPW0" && browse 107 else search			Shell: /bin/zsh Jackapes: 577		
		ne keybind shod-shift-Tab cycle_all +1 19 hc keybind shod-shift-Tab cycle_all -1	126 NN looks up a word using the local dictionaries I 127 Nd C) / dict "Att"luing open class c)	75 inoremap <leader>p ^Op</leader>		+ ## ##################################		indow Manager: Herbsltuf TK2 theme: Darklooks	EWA	
		the keybind Shod-A Cycle 11 hc keybind Shod-A Focus left 12 hc keybind Shod-A Focus dawn	Let HM looks up a word using rewote dictionaries I 128 MM looks up a word using rewote dictionaries I 129 MM c) d dict and dictions "##"University of Part. 1	To determine of 100mb				TK2 icon theme: Faenza-D TK2 font name: bitocra 1	larkest	
		13 hc keybind \$Mod-k Focus up 14 hc keybind \$Mod-L Focus right					(###### 	CAR: 624 M6 / 3902 M6 (15 IPU: Intel(8) Core(TA) i3	2) 1-23678 CPU © 1.40682	
		45 hc keybind \$Mod-i jumpto wrgent 46 hc keybind \$Mod-Shift-h shift left						lome: 156 / 986 (16%) (bt Coot: 6.36 / 116 (65%) (e	sty)	
		47 hc keybind \$Mod-Shift-j shift down 48 hc keybind \$Mod-Shift-k shift we				HHHHH -	HHHH			
		49 hc Reybind \$Rod-Shift-1 shift right				HH.	A.			

c 3 😸 🕺 ng 7 éng hala - I					3	axelec	areve- learstate.d/	earred (udeprive)
s ; for nety	2 H wake html documents containing all of the pictures in a folder.	2 Chard as all condinitionship blocks the stain the all these stress success and	2 H wake a thumbnail for an image	1 2 H this script started iffs life as deeps sup	discharge() { acpilgrep Discharging ;}	bash.bash_logout bash.bashrc	proup.pacnew lv#/ prub.d/ Haching-id	parred- rudopri, tep" parred-DLO reord.com/
/ninjaaron/	<pre>9 limit=\$1 Hsets how wany pictures per page</pre>	<pre>4 conf="\$HORE/.config/herbstluftwa" 5 \$333 herbstluftwa"</pre>	<pre>pic="\$1" F = "#2" 1 S0 conter#2" 11 conter200</pre>	I S N ant year confine	<pre>psg() { ps auxigrep "silligrep -v grep, }</pre>	bd fodi tra bin fet.dz	Schadow- acnew Han bb.conf	pendia/ /gretl.d/ pkcrll/ /grtend/
/ ////////////////////////////////////	<pre>b dir='pad' Z tobleBaserst() t(Trive =10 / t)init + 1))</pre>	6 5 1 Nounching he() (herbeitelign) (2001) 3	6 name='echo "61"icut -d"." -F1	6 Source SHORE/. denurc	<pre>sleepless="\$HORE/sleepless"</pre>	ca-certificates.conf	atk-2.0/ Aprountal/	polk:t-1/ teps:los.d/ power/ trusted-key.key
	IFS="	d hc() { cmds="\$cmds :#: \$2" {}	d convert -scale \$scale "\$pic" "\$name"-thumb.png	Patharteration	10 toggle() {	conky/ cron.d/	hortz Akinitapin con	f profile vdpau wrapper.cfg
	10 H function for navigation links	10 hc emit_hook reload	10 exit	1 10 cachedir=\${X0G_CRCHE_K0RE:-"\$HORE/.cache"}	12)	cron.doily/ cron.dony cron.hourly/	ifplugd skinitopin.d/ iftab sodprobe.d/ IncorRegick/ sodprobe.d/	protocol/ vietc pulro/ wortro V/ rc.d/ wied/
tecra/	12 [spage -gt 1] 60 mcho "Chr>Ca href="pics\$((spage - 1)).html">< previ mcho "Chr>" >> nice"to non" html	12 H defaults		12 cache=\$cachedir/dmenu_run	14 idle() {	aren.weekly?	nputra notd prouto2/ npd.conf	re_koymaps/ upa_rupplicant/ re_maps.cfg %117
bin/	14 [spage -eq stotalPages] S6 echo " << first page 14 [spage -eq stotalPages] S6 echo " ><< first page 15 picht " >> picslight(first) = pics	19 source -/, theses/sthese	1 H vim: Filetypesh Automatic	I 14 cache=\$HORE/.dmenu_cache H if no xdg dir, fall back to dotfile I 1 1 5 61	16 sudo pa-suspend-hybrid	dbuz-1/	rnan.conf stabi rrup Autra Autra	request-key.conf xal/
aur* autosus*		16 hc set Frame_border_active_color \${frame_border_active_color-\$fg_c 17 hc set frame_bg_active_color \${frame_bg_active_color-\$bg_color}	atias gr'git'	1 16 1 17 cmd=\$(18 19 Jaw() f	dopmod.d/ dheped.com/	toptop-mode/ notconfig	t rezely.com? (zh?
backup# baraction#	14 Mistart the First page II 19 may II	16 hc set Frame by normal_color \${Frame_by_normal_color=#0000000} 19 hc set Frame_by_transparent \${Frame_by_transparent=1}	5 push-conFigs() {	1 14 (19 IFS=:	<pre>20 while true ; do 21 while [S(level) -st 5] [] [-z "S(discharge)"]; d</pre>	fb.modez	ld.zo.conf ld.zo.conf.d/ nzzwitch.conf	services
bcl* brus* -> /hoxe/ni	20 Wloop that creates pages with \$limit pics plus links at top and bottom 21 For pic in *{jpg.png.gif.svg}:do	20 hc set window_border_hormal_color \${window_border_hormal_color-\$bg} 21 hc set window_border_active_color \${window_border_active_color-\$fg}	7 builtin od \$007 8 git add "*"	I 20 if stest -dqr -n "\$cache" \$PATH; then I 21 echo -e ".\n\$(stest -Flx \$PATH sort -u)\n\$(ls)" tee "\$cachi	22 steep 60 23 done	aclocal/ aclocal-1.13/	a b-guil	Blayer /
color test*	22 Rereates the actual image lags 23 echo "Ka href=\""\$dir"/"\$pic"\">King src=\""\$dir"/"\$pic"\">K/a>" >> pil	22 hc set window_border_width \${window_border_width-1}	9 git commit "\$77" 10 git push origin master	22 else 23 cat "\$cache"	24 zenitywarningtext "battery very low." 25 sleep 10#	application-registry/	alade P	Aprober /
crap* det	24 ((count++)) 25 Hput nav links and close the page.	24 hc set default_frame_layout 3 25 hc set focus_follows_shift 1	11)	1 24 Fi 1 25)I\$DRENU)	26 dane	autoconf? autoconf? automake=1.13?	anatri pa	eris inder
f#* install-grub*	26 test \$count -ge \$limit 00 { 27 naw	26 hc set raise_on_focus 1 I 27 hc set always_show_frame 0 I	13 alias s='sudo' 14	26 27 H if the user selects a directory, go there and execute brws.	28 29 \$0	avahi/ awk/ bash-completion/	phone-background-properties/ pk phone-control-center/ pi phone-doc-utits/ p	Clint-1
kbcycle* lid*	24 ((page++)) 29 count=	20 hc set focus_follows_mouse 1	15 H vim aliases 16 alias zshrc="\$EDITOR \$HOME/.zshrc"	i 20 echo șend i 29 EE -d șend SG șend != .]] SG ed "șend" SG end="brus" i i		bibletime/	jobject-introspection-1.0/ pr	Altroaudin / spath oct/
light* mkmp3*	30 n2v; }	30 H remove all existing keybindings 31 hc keyunbindall	17 alias vierce"\$EDITOR \$HOME/_vierc" 18 alias al="\$EDITOR /home/ninjaaron/_aliases"	30 31 case "\$c#d" in	1 N!/bin/bash 3,0-1 Bo	ca-certificates/ ca-certificates-java/	graphite2/ gr	E2 Fait Line /
0991F9*	32 PFINISHES OFF THE LAST PAGE	ae a Keyoshoshos 33 And=Rody 11 ba dabbad dabbad dib baakdasaa adb	<pre>is allas book="stollor v/docs/mg-mork/neb/dock.ckt" 20 allas hla="stollor v/.conFig/herbstluftww/autostart"</pre>	I 32 . I A FA WAKES A LIST OF FILES IN ALL SUDDIFECTORS AND OPENS INT I 33 FA &		cmake/ cmake-2.d/ celer/	art-pluginz-bare/ zg	pml/ harod-color-profiles/ rounds/
Par*	35 exit	35 hc keybind \$Nod-Shift-r reload	22 alias hls="SEDITOR +/.config/herbstluftem/swap"	35 theme) H changes the color scheme	Source \$HOME/.dmenurc	common-lizp/	atk-deal at	pod tran /
wiki.sht		37 hc keybind \$Mod-x close	24 H packagnanagnent	1 37 (MERU - 9 (theres: ') 1 37 (MERU - 9 (theres: ')	a breast storeworkens, -t as 7 8 B bir in actually the last function called Curtowing by	dblates/	help/	
 xbrdxd/ autostartt 		39 H apps No be keybind Allad-Return seawn wrxwte	26 alias pis="pacean -is" 27 alias pis="pacean -is"	1 39 11 1 90 mulcul"in -s") H belaers for selection files	9 H extition here.	daan f-oditor/ dosktop-diroctorios/	hudata) ti lidn/	ALL
panel.sht restarteanels.sht	3 HH SHAP! HH vim: tw=40 I 4 H Functions to give herbstluftwm some dynamic tiling behaviors. I	41 hc keybind \$Rod-apostrophe spawn \$conf/swap stack_spawn urxvtc 42 hc keybind Rod9-d spawn \$HORE/bin/dm	20 alias pRs="sudo pacman -Rs" 29 alias pU="sudo pacman -U"	<pre>1 91 sour=\$(Find -L . I\$DMENU -p "\$cmd \$dURCE:") 1 92 FF -z \$sour 11 60 exit</pre>	11 case "\$sel" in 12 *.mku[*.mu[*.aui*]*.flu*]*.ouu[*.mu[*.mu[*.mu]*.mu]*	d at/ d agenez/	con-naming-utils/	frin in fe /
swapt config-zathura/		43 hc keybind Mod9-comma spawn \$conf/swap master_spawn \$HOME/bin/dm 44 hc keybind Mod9-period spawn \$conf/swap stack spawn urxvtc	30 alias y="yaourt" 31 alias y5yua="yaourt -5yua"	1 43 dest=\$(Find -L \$HOME -type dl\$DMENU -p "\$cwd \$sour DEST:") 1 1 44 IF -z \$dest 11 6% exit	13 mplayer "\$sel" @	doc? drtet/	RagoRagick-6.d.2/	per - di / t/
keyboardz/ mutt/	7 H Usage H I a HHH auto		32 alias agi='s apt-get install'	1 45 \$cmd "\$sour" "\$dest"& 1 46 1. W launch interactive programs in a terminal.	15 *.pdfl*.psl*.djvu) 16 zathura "\$sel" &	ender /	nk/capp/	teks/ sus/ constant/ins/
ncmpcpp/ themes/	9.8 Swaps client in and out of "waster" or "stack." If there is only onl 10.8 "auto" splits it. Example keybinding in herbstluftum's autostart: 1	47 hc keybind shift-F3 spawn \$KOME/bin/light dub 46 hc keybind Shift-F2 spawn \$KOME/bin/light half	34 alias agpers apt-get purge" 35 alias aguers apt-get update"	1 93 cotru=\$(14 *.jpgit.gifit.png)	BReader /	iava/ vi kbd/ vi	ala/ ala-0.1d/
aliases	12 BHR stack spawn / I	50 hc keybind XFd6AudioLowerPolume spawn pamixer Acrease 5	37 alias agace's apt-get dist-upgrade'	S0 Find \$(manpath))	20 SHOLES SEEL N	(let	keyulily/ laptop-mode-tooly/	iny Sevente 1 R/
apdconf	14 B hc keybind \$Mod-period spawn /PATH/TO/swap stack_spawn xterm	52 hc. keybind XFd6AudioPlay spann apc toggle-aute	39 alias agr - s apt-get autoremove	I SE SOMENU -P "MAN:")	22 gimp "\$sel" &	gcalctool/	Libouvi-scripts/	pokitotk-3.0/
pentadactytrc pystart.py	15 NAM Master_spann 16 M moves clients in Master to stack and runs command, possible wrapperl 27 M deenu run.	53 nc keydind XFd6AudioPrev spawn Apc prev 54 hc keydind XFd6AudioPrev spawn Apc prev 55 hc keydind XFd6AudioPrev spawn Apd Prev	40 allas acso apt-cache search: 41 31 allas non-undates"cude non-exceptio -e /heet/orub/orub.com"	i 53 Uravic - E SSHELL - C "Aan Sentry" 54 :: 55 :::	23 *.odtl*.odgl*.odgl*.odgl*.doc) 25 *.odtl*.odgl*.odgl*.doc)	adb/	Listenia and	
vierc	18 H hc keybind \$Rod-comma spawn /PATH/TO/swap master_spawn dmenu_rul	56 hc keybind XFd6Sleep spawn \$HdAE/bin/pwr	43 Millioneer	56 wicd-curseslineon/weechat-curseslineoplyaourth//waar///) 57 unveit ac fourth //weechat-curseslineoplyaourth//waar///) 57 unveit ac fourth//weechat-curseslineoplyaourth///waar///)	26 11	penclue-providers/	lincato/	and a second aver /
Xresources zerofile	20 M IF client in master frame is closed, it is replaced by a client from 21 M stack. If stack is much, it's removed, used like blam "close" const	56 H Lags 59 ToG MORESe((13) = M)	45 alias reboot="sudo shutdown -r now" 46 alias halts"sudo shutdown -h now"	54 11	24 FireFox "\$sel" &	shortraript/	Ran/ S	illinary)
zshenv		60 TAG_KEVS=(`{13}`q`w`)	47 alias sus="sudo pm-suspend"	60 echo "\$cwd" \${SHELL:-"/bin/sh"} & 61 esac	30 *) H with undefined extentions, open vim. If the dir: 31 H somewhere in SHOME, ask for sudo.	Just /sharps ad bin	simplek/	and mean
tel/ olokai/	24 W CONFIG W 25 W split_direction = Frame split's orientation. "horizontal" or "vertical!	62 hc rename default "\${TAG_MARES[0]}" true 63 for i in \${!TAG_MARES[0]} ; do	49 H misc command shortcuts 50 alias ls="lscolor=auto -F"	62 63 exit	32 if EE \${PWD/A\$USERA/\$USER} != \$USER]] \$6 33 EE \${echo -e "g\nn"i\$DAENU -p "sudo]"} = g]] ; th	aurt baractiont	olartestt fat lidt	skingds picpaget wiki.sht
ackages/	26 H split_ratio determines split's location. value between 0.1 and 0.9 / 87 H stack_layout = stack's hlwm layout. "horizontal" "vertical" "wax" "grif	54 key="\${TAG_KEYS[\$]] 55 hc add \${TAG_KANES[\$]}	51 alias Isl="Is -lh" 52 alias Isa="Is -a"	lbin/dm 58,6 All 1 "//.viwrc	34 unwetc -e sh -c "sudo vim -u \$HONE/.vimrc "\$PND/: 35 exit	bing doar ant/ au	<pre>// net/ pic/ sleepless sta/ vi keyboards/ame</pre>	
pless	28 H stack_Frame = Frame For stack. O=top/left 1=bottom/right d=smaller Fra 29 split_direction="horizontal"	55 hc keybind \$Mod-\$key use_index \$1 57 hc keybind \$Mod-Shift-\$key wove_index \$1	53 alias Isla="Is -lha" 54 alias df="df -h"	2 environment 3 set nocompatible backspace=indent.eol.start history=50 nowrap would be accessed and a set of the set o	35 else 37 junavic -e sh -c "via "\$PWD/\$sel""	partial alphanumeric. xkb_rymbol/ "ane" (Jorg 2	
	30 split_ratio"0.bbs7" 31 stack_layout="vertical"	69 Hhc Keybind \$Mod-w chain : add web : use web : spawn FireFox : \	55 alias guerge grepcolorauto'	1 Set ruler showchd incsearch for expandiad ladstopie shirtwidth=e 5 set nu cursorline wildnenu wildnod=list:longest.full	34 Esac	include "ur(baric)" name[Group11: "US	58 _ ANE Transcription Characters"	
	33 W Here ends the section for users W	71 / Keydino Shoo-a dae aco : Keydino Shoo-shirt-a kove aco / / ///////////////////////////////	Statias pering to mane"	7 Syntax on 1 4 Size loss of a loss	nu F 41 M2 H ups 76ind? In mat the entire contents of 49085 recursi	// wadeya	BUR_CEPEC.	
	35 hc() { herbstclient \$8;}; hcc() { hc chain \$8;}; chn() { c#ds="\$c#ds , \$	73 hc keybind \$Mod-r remove , keybind \$Mod-space cycle_layout	60 alias ent='s wount'	9 Set gfn=Ubundo, Kono\ 10 go=	Ha while faith to get the entire contense of shoke recorso	key (LSGT) C C // //	prave arciitide dead_prave	dead horn 3 2
	37 set_vars() { HHH some wars need to be set more than once. I 36 dump=[Sinc dump]) H put the content of hc dump into an array		rallakac ot	nanac in t	The subsh of a second second bide	key debas t t	3 numbersion storling	
	39 H values based directly on the dump 40 Ratio=\${dump[1]##.} H make the division of primary frame an int 1	77 for i in (19) 76 hc keybind stade 11 6: 11; hot zon 11 0.5i			H7 H 11 TE Unhide.	KPY (MEDA) C C C	arciidircun, rection,	doubledagger 12;
	41 Orientation=\${dump[1]28:*} H Frames split horizontal or vertical 42 Frame=\${dump[1]#H*:} H Frame with active client	79 hc keybind \$Moo-Control-\$1 Split vertical 0.\$1 40 done	66 alias da"transmission-remote -a"	a Jugrdup wikrett	50 if [[\${PWD/\/home*/\/home} = /home]];then	key delos c c	B parentight, marculin	e periodontered 12: e ringlelawquatemark12:
	43 EmptyD=5(dumpE3]==1) H empty Frames = 7/1, same For Following 2 vars 1 44 Emptyl=5(dumpE5(HdumpE3]=1]HH*:3;Emptyl=5(Emptyl=1:1:1)	dl hc Keybind SRod-space cycle_layout 1 d2 hc Keybind SRod-space cycle_layout -1	64 alias tle"transmission-remote -l" 69 alias he="herbstclient"	1 17 autocnd buffead /tmp/pentadactys.txt 1 18 Source /home/ninjaaron/.vim/pentadactyl.vim	52 if [[\$show = hidden]]; then	kog sittig: t t	equal, plus, notequal,	plushinus 1 2;
	46 H use absolute values from dump to determine values relative to stack/I	di ha Keybind Shod-S Floating toggle di ha Keybind Shod-F Fullscreen toggle	70 allas di="diatheke"-b WET -k"	119 autocké burkead /tkp/uzol_editk source /noke/ninjaaron/.vik/peni 120 autocké buřkeadPost *	53 Find -C 11 54 sed 7/4\$/d 1 /Ubuntu dne/{ H1 d1 }1 \$ { P1 H2 }7	kpy (ADD2) C L	1; 1; uzzli	Aldoublelowquotewarki 51 // summation (capite
	<pre>H then [\${Ratio:0:1} -g 5] & stack=1 ii stack=0 H then [\${Ratio:0:1} -g 5] </pre>	d6 hc \$contract	73 alias pp="wplayer -playlist" 74 alias ph="wplayer -playlist"	1 22 autocad visenter * if large() NERDTree endity NERDTreeTwol 23 autocad visenter * if large() NERDTree endity ("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h.NERDTreeTwol 23 autocad visenter * if (winner("h") is a loss winter("h) is a loss winter	56 else	key (8005) C C		dagger 12: // permille dagger 12: // 1 with line belo
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	52 if [[\$0rientation = "horizontal" & \$stack = "1"]]; then 53 stackDers masterDels emptyStack="SEmptyN"s emptyMaster="SEmpty0"	90 while read line,do	77 74 H find processes that match a remex	26 " maps and commands and so forth		key (AD10) t t	P; P; Grook_p	12 U220F 3 51 // product (capitol
	54 elif EE Surientation = "vertical" & Stack = "1" 33, then 1 55 stack0=d; master0=u; emptyStack="SEmpty1"; emptyMaster="SEmpty0" 1	92 H remove the gap 93 nonap) herbstclient chain : set frame gap -1 : \	75 psg() { ps auxigrep "\$2"igrep -v grep; }	28 command Pa PoomToggle asciidoc 29 noremap <c-w> :NERDTreeToggle<cr> </cr></c-w>	62 else 63 Find Jsed 1/+\$/d1	kpy (AD12) C Chrack	Ketright; braceright; UD26E; right	httinglequetewark 32; // right half-ring (ag
	56 elif Ef dorientation = "horizontal" && dstack = "0"]], then 57 stackO=1, masterD=r, emptyStack="dEmptyD", emptyMaster="dEmptyD"	94 set window_gap \${window_gap-1} : keybind \$Rod-0 ewit_hook "1 95 set frame_border_width \${frame_border_width-1} :\	42 [[-n \$0]] 66 [[-e \$0]] 66 owner=\$(ls -l \$0(cut -d' ' -F3) 6	1 30 command Diffdrig vert new I set bt=nofile I r ++edit H I Od_ I di 31 \ I winced p I diffthis	64 fi) 65	key (ACD1) 5 5	e, A, arin	Ring 125
	54 elim [[Surientation = "Vertical" im Stack = "0"]], then 59 stackDou; masterDod; emptyStack="SEmptyD"; emptyBaster="SEmptyD"	97 pad 1 Spad 14	Al E Sowner != SUSER]] II EE S(PWO/SHORE/) = SPWO]] SA A4 Hecho -n "sudo EV/n]? " SA read sudo SA EE S(sudo:-y) = y]] SA	1 32 " syntax toggling 1	65 sels(echo "\$menu"(\$DMENU -p "search \$PWD:") 67 case \$sel in	key ACON C C	d Ultor dead_belowdo	eth 121
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ome/ninjaaron/	<pre>1 limit=\$1 Hsets how many pictures per page 5 page=1</pre>	<pre>conf="SHORE/.config/herbstluftwm" kiall herbstluftwm" kiall herbstluftwm"</pre>	pic="\$1" F == "\$2" 1 S0 scales"\$2" [] scales250	A bet user confins	5 PSS() { ps auxigrep "\$2"(grep -v grep,)	bdfeditre	grhadow- grhadow-pacnew m	akepkg.con/ pcncia/ an_db.con/ pkczll/	ryrctl.d/ ryrtowd/
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pic/ src/	10 # function for navigation links	10 hc emit_hook reload	10 exit	10 cachedir=5{X06_CACHE_HOME:-"SHOME/.cache"} 11 if [-d "Scachedir"]; then		cron.deny	Ftab InagoRagick/ N	odprobe.d/ pulse/ odulor-load.d/ rc.d/	wantra wiad/
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baraction*	19 nav 20 Blong that creates pages with thisit pics plus links at the and bottom	19 hc set frame_bg_transparent \${frame_bg_transparent-1} 20 hc set window horder normal color \${window horder normal color-\$hel	f (huiltin ed \$DOT	19 IFS=: 20 if stest der -n "trache" tROTH, then	<pre>21 while [\$(level) -gt 5] [] [-z "\$(discharge)"], d 22 33 34 35 35 35 35 3 3 3 3 3 3 3 3 3 3 3</pre>	th modes /use/share	ld.zo.conf.d/ n.	zzwitch.conf zervicez	
brest -> /home/nil	21 For pic in *{jpg.png.gif.svg};do 22 Horeates the actual image tags	21 hc set window border_active_color \${window_border_active_color-\$Fg 22 hc set window border_width \${window_border_width=1}	d git add '*' 9 git commit "57'	<pre>21 echo -e ".\n\$(stest -Flx \$PATH sort -u)\n\$(ls)" tee "\$cach) 22 else</pre>	23 done 24 genitywarningtext "battery very low."	aliza/ aliza/	2 5-2017 3 5k?	aplayer/	
color test* crap*	23 echo "Ka href=\""\$dir"/"\$pic"\">Kiwg src=\""\$dir"/"\$pic"\">K/a>" >> pi(24 ((count++))	23 24 hc set default_frame_layout 3	10 git push origin waster 11)	23 cat "\$cache" 1 24 Fi 1	25 sleep 10x 26 done	applications/ apr-1/ autoconf/	plade/ plib-2.0/	packan/ pavucontrol/	
det Fet	25 Hput nav links and close the page. 26 test \$count -ge \$limit && {	25 hc set focus_follows_shift 1 26 hc set raise_on_focus 1	13 alias s='sudo'	25)I\$DAENU) 26	27 28	automake-1.137 avah:7 awk7	anone-background-pi anone-control-cent	reportion/ pkgconfig/ pr/ oplkit-1/	
kbcycle*	2d ((page++))	cr nc set always_snow_Frame u 2d hc set focus_follows_mouse 1	15 H vim aliases	er a 14 the user selects a birectory, go there and execute orws.	24 511	bd/edit/ bibletime/	anne-doc-utits/	inn-1.0/ propher/	
light*	30 nav; }	and a remove all existing keybindings	17 alias vance"septor shore/vance" 17 alias vance"septor shore/vance" 14 alias al="fortune"	20 Case "food" in	bin/autosus 3.0-1 60	t ca-centificates/ ca-centificates/	araphito2/	pigtk? gt? readline/	
skthusb*	32 HFinishes off the last page I	32 H Keybindings 33 Add=Add4	19 alias book="SEDITOR */docs/my-work/heb/book.txt" 20 alias hla="SEDITOR */.config/herbsluftwm/autostart"	32 .) A FM wakes a list of files in all subdirectors and opens the	3 H file browsing with dmenu	calc/ cmake/ cmake-2.d/	grub/ grt-plugins-base/ gtk-2.07	redland/ zgml/ zhared-color-profi	
picpage* pur*	34 I 35 exit	34 hc keybind Control-Alt-BackSpace quit 35 hc keybind \$Mod-Shift-r reload	21 alias http://config/herbstluften/func" 22 alias hts://function.config/herbstluften/swap"	34 theme) H changes the color scheme	5 source \$HOME/.dmenurc	colord/ colord/ common-lisp/	atk-3.0/ atk-dec/ atk-engines/	spectrum/	
theme* wiki.sh*		36 hc keybind \$Mod-Shift-c close 37 hc keybind \$Mod-x close	23 I packagnanagnent I	36 theme=\$(ls \$HOME/.themesised '/Ad/d ; /+\$/d ; /wres/d'i\ 37 \$OMENU -p 'themes:')	5 DRENU="\${DRENU-dmenu} -1 60"	dblates/	ptk/tml-3.14/ ptk/purceview-3.0/ help/	zubverzion/ zwig/ zword/	
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panel.sht	3 HH SWAP! HH vin: tw=80	11 hc keybind Shod-apostrophe spawn Sconf/swap stack_spawn urwyte	24 alias pRs="sudo packan -Rs" 29 alias pRs="sudo packan -Rs"	<pre>41 sour=\$(Find -L . I\$DMENU -p "\$cmd SOURCE:") 42 EF -2 Sour 11 SG pail 44 Final Source 11 SG pail 45 Final Source 11 Final Source 11 SG pail 45 Final Source 11 Final Source</pre>	11 case "\$sel" in 12 case "\$sel" in 13 eVult enult quitit flutit neult envit envit envit	dicti	con-naming-util//	torninfo/ toxinfo/	
swap* • config-zathura/	5 W by Aaron "ninjaaron" Christianson (ninjaaronDywail.com) 6	43 hc keybind Mod4-comma spawn \$conf/swap waster_spawn \$HOME/bin/dm 44 hc keybind Mod4-period spawn \$conf/swap stack spawn urxvtc	30 alias y="yaourt" 31 alias ySyua="yaourt -Syua"	43 dest=\$(Find -L_\$HORE -type di\$DRENU -p "\$cwd \$sour DEST:") 44 EF -z \$dest 11 \$% exit	13 mplayer "\$sel" &	dua/ dztat/	Theophagick-6.8.2/	toxe i-dist/ thomos	
<pre>keyboardz/ wutt/</pre>	7 H Usage H I a HHH auto	45 46 A commands	32 alias agi='s apt-get install'	45 Scwd "Ssour" "Sdest"& 1 46	15 *.pdFi*.psi*.djvu) 16 zathura "šsel" &	CROSPRO	ntitool	tlpkg/ tmux/	
 ncmpcpp/ themes/ 	9 8 Swaps client in and out of "waster" or "stack." If there is only onl 10 8 "auto" splits it. Example keybinding in herbstluftwm's autostart: 1	47 hc keybind Shift-F3 spawn SHOME/bin/light dub 48 hc keybind Shift-F2 spawn SHOME/bin/light half	34 alias agpe's apt-get purge' 35 alias ague's apt-get update'	47 man) 98 entry=\$6	17 *.jpgi*.gifi*.png)	bReader /	ava/ kbd/	vala/ vala-0.16/	
aliases	11 B D C KEYDING \$MOD-SEMICOION SPAWN /MIH/10/SWAP Auto I 12 HHH stack_spawn I 13 HHH stack_spawn I	44 nc keybind XFdBRudioLowerPolume spawn pamikerincrease 5 50 hc keybind XFdBRudioLowerPolume spawn pamikerdecrease 5	36 alias agos"s apt-get dist-upgrade" 37 alias agase"s apt-get autoclean"	50 find \$(wanpath))	10 BOVIEW "SSEL" &	alet.	laptop-mode-tool//	win/ win/ wink:hatk-1 0/	
apdconf apptadactulec	14 H hc keybind \$Mod-period spawn /PATH/TU/swap stack_spawn xterw 15 MMW waster pawn	52 hc keybind XF86AudioPlay spann wpc toggle 52 hc keybind XF86AudioPlay spann wpc toggle	39 alias aar='s abt-get alto ENOVE 39 alias aar='s abt-apt-repository'	52 SOMENU -p "Main"	22 giap "\$sel" &	acc-4,7.2/	Librarian/	webk: totk-3.07 weetparter	
Pystart.py Vifarc	16 H moves clients in master to stack and runs command, possible wrapper 17 H dmenu_run;	54 hc keybind XF&BAudiaPrev spann mpc prev 55 hc keybind XF&BAudiaPrev spann SHORE/bin/pwr	41 42 alias grub-update="sudo grub-wkconfig -o /boot/grub/grub.cfg"	59 ji 55 youtube-viewerk!torrtusk!vifkt!vik!edk!nanok!ncwpcpp!cwatr!	24 *.odtl*.odgl*.odgl*.odsl*.doc) 25 libreoffice "\$sel" &	odb/ odm/ ordit/	Libtool/ Liconzoz/	xcb/ xcb/	
vinrc ximitrc	18 H hc keybind \$Rod-comma spawn /PATH/TO/swap master_spawn dmenu_rul 19 HHH close	56 hc keybind XF&bSleep spawn \$HOME/bin/pwr 57		56 wicd-curseslinFoAlweechat-curseslhtoplyaourtAl"wan "*) 57 urwet -e \$SHELL -c "\$cwd"	26 z. t.html/t.htm))esclus-providers/)etopt/)ettext/	locale/ Lzhw/ Lzeppearence/	xel/ xscreensaver/ xsessions/	
2profile	20 B IF client in waster Frame is closed, it is replaced by a client From 21 B stack. IF stack is empty, it's removed, used like hlwm "close" commi-	54 H Lags 59 TAG_MARES=({13} 9 W)	45 alias reboot="sudo shutdown -r now" 46 alias halt="sudo shutdown -h now"	50 *)	24 FireFox "\$sel" & 29 44	pinp/ pinp/ pir-1.0/	nimp/ nimp/ nimp/info/	slibrary/ sensinfe/	
zshre	22 R NC KEYDIND SHOD-SLASN SPAWN /PHIH/IU/SWAP CLOSE I 23 H H CONTRO H	50 INU_KEV5=({13} 9 #) 51 52 bs company default 200700 MARCERDAN 11 brow	allas sus= suoo pw-suspeno.	61 esac	30 *J R with underined extentions, open vim. IF the dir 31 H somewhere in \$HOME, ask for sudd. 33 A somewhere in \$HOME, ask for sudd.	Juse / shares of bin alares backups	breza crept	install-prubt lightt mggin	fut thenet
- molokai/ - Packages/	25 H split_direction = frame split's orientation. "horizontal" or "vertical) 26 H split ratio determines split's location, value between 0.1 and 0.9	53 for i in \${!TAG MARES[3]} ; do	50 alias 1s="1scolor=auto -F" 51 alias 1s1="1s -th"	63 exit	33 EE \$(echo -e "y\nn"i\$0MENU -p "sudo?") = y 33 th uravic -e sh -c "sudo via -u \$MONE/ vianc "\$PUD/	autorurt balt	colortestt int	lidt skthumbt purt	ages withinges
- Py/ vid/	27 H stack_layout = stack's hlwm layout. "horizontal" "vertical" "max" "grif 28 H stack_frame = frame for stack. O=top/left l=bottom/right d=smaller fraf	65 hc add \${TAG_NARES[\$1]} 66 hc keybind \$Rod-\$key use_index \$i	52 alias Isa="Is -a" 53 alias Isla="Is -lha"	2 "environment	35 exit 36 else	default	/keyboards /ane	(0)))/L/ (III)	
classiers i	29 split_direction="horizontal" 30 split_ratio="0.6667"	67 hc keybind \$Mod-Shift-\$key move_index \$i 60 done	54 alias df="df -h" 55 alias du="du -h"	3 set nocompatible backspace=indent.eol.start history=50 nowrap woul 9 set ruler showcwd incsearch lbr expandiab tabstop=2 shiftwidth=2	37 unwetc -e sh -c "vim "SPWD/Ssel"" 34 Fi	<pre>xkb_rymbols "ane" { include "ur Charie)</pre>			
atter teas	and the second se	and the structure of the state						 Observations and a second s	
	31 stack_layout="vertical" 32 stack_Frame=1 33 w Mere ands the section for users #	69 Nhc keybind \$Mod-w chain : add web : use web : spawn FireFox : \ I 70 H keybind \$Mod-w use web : keybind \$Mod-Shift-w wove web I 71	56 alias grep="grepcolor=auto" 57 alias f='find -L -name"	5 set nu cursoriane wildmenu wildmodelist:longest.full 6 let g:SuperTabDeFaultCompletionType = "context"		key.typetgroup11:	"FOUR_LEPEL";		
	31 stack_lageut="wertical" 32 stack_frame1 33 W Here ends the section for users N 34 W Here 13tthe functions used over and over 35 hc) (furfacturant Sol; hcc) (hc chain (b); chn() { cmds="\$cmds , \$i	69 Nhc Keybind \$Mod-w chain : add web : use web : spawn FireFox : \ 70 N keybind \$Mod-w use web : keybind \$Mod-Shift-w wove web 17 N layouting 73 hc leybind \$Mod-r regree , keybind \$Mod-space cycle_layout 1	56 alias greps'arepcolorsauto' 57 alias Frind -L -name' 58 alias wha"while" 59 alias att="autosus toggla" 60 alias mate"amount'	5 set nu cursoriane waldwenu wildwodelist:longest.full 6 let g:superlabbefaultCompletionType = "context" 7 syntax on 2 citetype plugin indent on 6 et geneubuntuy Aonoy 10 b=	40 } 41 42 H use 'find' to get the entire contense of \$HOME recursi 43 search() {	<pre></pre>	Prove arciitilde;	dead_grave; glusminus	- 1 <u>1</u>
	<pre>31 stack_jugust"verticit" 23 stack_frage for users in 34 https://www.stacline.org/stack_frage for users in 35 https://www.stacline.org/stack_frage for users in 36 https://stack.gov/stack_frage for users 36 https://stack_frage for users 36</pre>	56 NRC.keybind Shdow chain : add web ; use web : spann FireFor () 10 K keybind Shdow use Web : keybind Shdow-Shirke web 17 Nr Shuoning 17 Nr Shuoning Shdow refer , keybind Shdow-Space cycle_lagout 1 19 Nr Shuoning Shdow reflex 10.5 19 Nr Shuoning Shdow reflex 10.5	Si Allas group group	5 set nu cursorlane wildenu wildendelizilonget.full 1 te gisperiaboraultagettionigne = "context" 1 sphines 5 te gisebunik, Roos, 10 Dat 1 forstunik, Roos, 10 Dat	an and a second a se	hane Coroupils " key. type (oroupils) // wadewa key (1501) key (1501) key (1501) key (1501) key (1501) key (1501)	APPEND AND TRANSCRIPTION	dead grave, section, exclandam, tradenar, Eurosi	
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			<pre>bill generation for the second s</pre>	A second	<pre>int int int int int int int int int int</pre>				<pre>4 1 2 1</pre>
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			<pre>bill a growth a statistical and a statistic</pre>		<pre>/*** *********************************</pre>		AND		<pre>4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</pre>
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			<pre>Add the set of th</pre>		<pre>ret ''''''''''''''''''''''''''''''''''''</pre>				<pre>% # 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0</pre>

15



What is the largest city in Europe by population?



What is the largest city in Europe by population?

semantic parsing

Cities



What is the largest city in Europe by population?





What is the largest city in Europe by population?

semantic parsing

Cities ContainedBy(Europe)



What is the largest city in Europe by population?

semantic parsing

 $\mathsf{Cities} \cap \mathsf{ContainedBy}(\mathsf{Europe})$



What is the largest city in Europe by population?



 $\mathsf{Cities} \cap \mathsf{ContainedBy}(\mathsf{Europe}) \qquad \mathsf{Population}$



What is the largest city in Europe by population?

semantic parsing

 $\mathsf{argmax}(\mathsf{Cities} \cap \mathsf{ContainedBy}(\mathsf{Europe}),\mathsf{Population})$



What is the largest city in Europe by population?

semantic parsing

 $\mathsf{argmax}(\mathsf{Cities} \cap \mathsf{ContainedBy}(\mathsf{Europe}),\mathsf{Population})$

execute

Istanbul



Remind me to buy milk after my last meeting on Monday.



Remind me to buy milk after my last meeting on Monday.

semantic parsing

 $\mathsf{Add}(\mathsf{Buy}(\mathsf{Milk}), \mathsf{argmax}(\mathsf{Meetings} \cap \mathsf{HasDate}(\mathsf{2016-07-18}), \mathsf{EndTime}))$


Language to programs





Language to programs



A brief history of semantic parsing

GeoQuery [Zelle & Mooney 1996] Inductive logic programming [Tang & Mooney 2001] CCG [Zettlemoyer & Collins 2005] String kernels [Kate & Mooney 2006] Synchronous grammars [Wong & Mooney 2007] Relaxed CCG [Zettlemoyer & Collins 2007] Learning from world [Clarke et al. 2010] Higher-order unification [Kwiatkowski et al. 2011] Learning from answers [Liang et al. 2011] Language + vision [Matsusek et al. 2012] Regular expressions [Kushman et al. 2013] Large-scale KBs [Berant et al.; Kwiatkowski et al. 2013] Instruction following [Artzi & Zettlemoyer 2013] Reduction to paraphrasing [Berant & Liang 2014] Compositionality on tables [Pasupat & Liang, 2015] Dataset from logical forms [Wang et al. 2015]

<

QA on Freebase

100M entities (nodes) 1B assertions (edges)





Barack Obama

44th U.S. President

Barack Hussein Obama II is the 44th and current President of the United States. He is the first African American to hold the office, as well as the first president born outside of the continental United States. Wikipedia

Born: August 4, 1961 (age 54), Kapiolani Medical Center for Women and Children, Honolulu, HI

Height: 6' 1"

Spouse: Michelle Obama (m. 1992)

Parents: Ann Dunham, Barack Obama Sr.

Children: Malia Ann Obama, Natasha Obama

Siblings: Maya Soetoro-Ng, Auma Obama, More

WebQuestions [Berant et al., 2013]

QA on semi-structured data

154 million tables on the web [Cafarella et al. 2008]

ACCEPTED LONG PAPERS	Most Popular Action Feature Films Thursday 12 June	
ACL 2014	1. Codzilla (2014)	. 17:00 CROATIA 🔽
 A Bayestan Mixed Effects Model of Literary Character Devid Bernman, Ted Underwood end Noah A. Smith 	The work's most famous monster is proved against manywhere dreatures who, o hear anyly soenalis canagence, threaten our very existence. Dir: Gareth Edwards With: Aaron Taylor Johnson, Erzabeth Olsen, Bryan Crans	
 A characterized measure of inter-enholator agreement for syntax Ame Skjærholt 	Action Soft Inner	🛛 Change la pase Serie
 A Decision Theoretic Approach to Natural Language Generation Institum Matching and Sources May 	2. X-Ment: Dai ya of F ************************************	O 13:00 CAMEROON 🚺
 A Decommentation Cospti-Recent Proven for the Atolicad Meeting Repri- Joffrey Flanigan, Sam Thomson Jatime Carbone, Carls Deer and No. 	Inc. X Hen sort Waven event but read to mide Image: Second s	16:00 NETHERLANDS
A Generalized Language Model Reno Plokhandt, Thomas Gotto 54 people	ACUT ADVENUE I I I I I I I I I I I I I I I I I I I	18:00 AUSTRALIA 🏧
A Joint Graph Model for Playts Zhongye Jie and Plai Zheo Name Also Album	the second secon	
A Lagrangian Relaxation Algori Alexander M. Rush, Michael Co. Seratin Batzogiou	Vitar signation of the second	
A Linear-Time Bottom-Up Disc. Gil Bejerano Vanessa Wei Feng and Grawm Michael Research.	Active Adventary	4BIA 13:00 GREECE
A practical but inguistically-mo Dan Bonah	Transformers: Ar An automobile median and	
A Provably Correct Learning All David Cheriton	Deceptions - and a part Dir: Michael Bay Within URUGU	JAY 16:00 COSTA RICA 🗮
Shay B. Cohen and Michael Co. Steve Cooper	Action Adventure 1	April 20, 2022 -
David Dill	5-3642 GATES 3 A	retary of State Elbridge
Ron Dror	497-8586 Gates 20 Contes 2	DIGI-1000 GATY
Dawson Engler	3-0702 GATES 3	Viscand ⁽ⁿ⁾
Ron Fedkiw	GATES 21	November 23, 1894 - Manului, 1827

Year +	Competition \$	Venue 💠	Position +	Event 🕈	Notes +				
	Representing Poland \$								
	World Youth Championshins	Debresen Hungany	2nd	400 m	47.12				
2001	world fourn championships	Debrecen, Hungary	1st	Medley relay	1:50.46				
	European Junior Championships	Grosseto, Italy	1st	4x400 m relay	3:06.12				
2002	World Junior Championships	Kingston, Jamaica	4th	4×400m relay	3:06.25				
2003	European Junior Championshins	Tamporo, Finland	3rd	400 m	46.69				
2005	European junior championsnips	lampere, ritianu	3rd 40 2nd 4x400 11th (sf) 40 1st 4x400		3:08.62				
2005 -	European U22 Championships	Erfut Cormony	11th (sf)		46.62				
	European 025 Championships	Enurt, Germany	1st	4x400 m relay	3:04.41				
	Universiade	Izmir, Turkov	7th	400 m	46.89				
		izinii, iurkey	1st	4x400 m relay	3:02.57				
2006	World Indoor Championships	Moscow, Russia	2nd (h)	4x400 m relay	3:06.10				
2000	European Championships	Gothenburg, Sweden	3rd	4x400 m relay	3:01.73				
	European Indoor Championships	Birmingham, United Kingdom	3rd	4x400 m relay	3:08.14				
2007	Universiade		7th	400 m	46.85				
	Universiade	Bangkok, Mananu	1st	4x400 m relay	3:02.05				
2008	World Indoor Championships	Valencia, Spain	4th	4x400 m relay	3:08.76				
2008	Olympic Games	Beijing, China	7th	4x400 m relay	3:00.32				
2009	Universiade	Belgrade, Serbia	2nd	4x400 m relay	3:05.69				

In what city did Piotr's last 1st place finish occur?

WikiTableQuestions dataset

Statistics:

- 22000 question/answers
- 2100 tables
- 6.3 columns and 27.5 rows per table

WikiTableQuestions dataset

Statistics:

- 22000 question/answers
- 2100 tables
- 6.3 columns and 27.5 rows per table

Challenges:

- High logical complexity (conjunction, disjunction, superlatives, comparatives, aggregation, arithmetic)
- Tables are unnormalized
- Train and test tables are distinct; need to generalize!

Model framework

Year	City	Country	Nations	In	dex 0	
1896	Athens	Greece	14		Vor	or City
1900	Paris	France	24	Next		
1904	St. Louis	USA	12	Ļ	1896	Atnens
				Ţ	Yea	ar City
2004	Athens	Greece	201	Next	1900	Paris
2008	Beijing	China	204	* 		
2012	London	UK	204	Nur	mber	Date
					1900.0	1900-XX-XX

Greece held its last Summer Olympics in which year?

Model framework

Year	City	Country	Nations	Inc	dex 0	
1896	Athens	Greece	14		Vor	
1900	Paris	France	24	Next		
1904	St. Louis	USA	12		1896	Athens
				T	Yea	ar Cit
2004	Athens	Greece	201	Next	1900	Paris
2008	Beijing	China	204	*		
2012	London	UK	204	Nur	nber	Date
					1900.0	1900-XX-

Greece held its last Summer Olympics in which year?

Generate programs recursively of increasing size:

Greece City Country Nations

Year

Generate programs recursively of increasing size:

Greece Country.Greece City Country Nations

Year

Generate programs recursively of increasing size:

Greece Country.Greece

- City **R**[City].Country.Greece
- $Country \ \mathbf{R}[Nations]. Country. Greece$
- Nations \mathbf{R} [Year].Country.Greece

Year

Generate programs recursively of increasing size:

GreeceCountry.Greeceargmax(Country.Greece, Index)City \mathbf{R} [City].Country.Greeceargmax(Country.Greece, Nations)Country \mathbf{R} [Nations].Country.Greeceargmax(Country.Greece, Year)Nations \mathbf{R} [Year].Country.Greece...Year...

 $\mathbf{R}[\mathsf{Date}].\mathbf{R}[\mathsf{Year}].\mathsf{argmax}(\mathsf{Country}.\mathsf{Greece},\mathsf{Index})$

Generate programs recursively of increasing size:

GreeceCountry.Greeceargmax(Country.Greece, Index)CityR[City].Country.Greeceargmax(Country.Greece, Nations)CountryR[Nations].Country.Greeceargmax(Country.Greece, Year)NationsR[Year].Country.Greece...YearVearVear

 $\mathbf{R}[\mathsf{Date}].\mathbf{R}[\mathsf{Year}].\mathsf{argmax}(\mathsf{Country}.\mathsf{Greece},\mathsf{Index})$

Training:

$$\max_{\theta} \log \sum_{\mathsf{Exec}(\mathsf{program})=\mathsf{answer}} p_{\theta}(\mathsf{program} \mid \mathsf{question})$$

Results on WikiTableQuestions



Error analysis

Unhandled operations:

- Was there more gold medals won than silver?
- Which movies were number 1 for at least two **consecutive** weeks?
- How many titles had the **same** author listed as the illustrator?

Error analysis

Unhandled operations:

- Was there more gold medals won than silver?
- Which movies were number 1 for at least two **consecutive** weeks?
- How many titles had the **same** author listed as the illustrator?

Table normalization:

- In what city did Piotr's last 1st place finish occur? ...[Bangkok, Thailand]...
- How long does the show defcon 3 last? ...[2pm-3pm]...

Modularity (model)

Moduarity (search)

Natural language specifications







Final remarks

Greece held its last Summer Olympics in which year?

Year	City	Country	Nations
1896	Athens	Greece	14
1900	Paris	France	24
1904	904 St. Louis USA		12
2004	Athens	Greece	201
2008	Beijing	China	204
2012	London	UK	204

Greece held its last Summer Olympics in which year?

\mathbf{R} [Index].Country.Greece

Year	City	Country	Nations
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Greece held its last Summer Olympics in which year?

$\mathbf{R}[\mathsf{Nations}].\mathsf{Country}.\mathsf{Greece}$

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Greece held its last Summer Olympics in which year?

argmax(Country.Greece, Nations)

Year	City	Country	Nations
1896	Athens	Greece	14
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Greece held its last Summer Olympics in which year?

argmax(Country.Greece, Index)

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Greece held its last Summer Olympics in which year?

... (thousands of logical forms later) ...

Year	City	Country	Nations
1896	Athens	Greece	14
1900	Paris	France	24
1904	St. Louis	USA	12
2004	Athens	Greece	201
2008	Beijing	China	204
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Greece held its last Summer Olympics in which year?

 $\mathbf{R}[\mathsf{Date}].\mathbf{R}[\mathsf{Year}].\mathsf{argmax}(\mathsf{Country}.\mathsf{Greece},\mathsf{Index})$

Year	City	Country	Nations
1896	Athens	Greece	14
1900	Paris	France	24
1904	St. Louis	USA	12
2004	Athens	Greece	201
2008	Beijing	China	204
2012	London	UK	204



Oracle accuracy

How many times did Greece hold the Summer Olympics?

Year	City	Country	Nations	In	dex 0	
1896	Athens	Greece	14		Vor	City
1900	Paris	France	24	Next		
1904	St. Louis	USA	12	Ļ	1896	Athens
				T	Yea	r City
2004	Athens	Greece	201	Next	1900	Paris
2008	Beijing	Chi na	204	÷	. /	
2012	London	UK	204	Nu	mber /	Date
					1900.0	1900-XX-XX

Oracle accuracy

How many times did Greece hold the Summer Olympics?



2

How often can the system even generate a set of 200 candidate programs containing the right answer?

Oracle accuracy

How many times did Greece hold the Summer Olympics?



2

How often can the system even generate a set of 200 candidate programs containing the right answer?

76.6%

How many times did Greece hold the Summer Olympics?

 $\mathsf{count}(\mathsf{Country}.\mathsf{Greece})$

How many times did Greece hold the Summer Olympics?

 $\mathsf{count}(\mathsf{Country}.\mathsf{Greece}) - \mathsf{count}(\mathsf{Country}.\mathsf{Norway})$

How many times did Greece hold the Summer Olympics?

 $\mathbf{R}[\mathsf{Index}].\mathbf{R}[\mathsf{Next}].\mathbf{R}[\mathsf{Next}].\mathsf{argmin}(\mathsf{Country}.\mathsf{Greece},\mathsf{Index})$

How many times did Greece hold the Summer Olympics?

 $\mathbf{R}[\mathsf{Index}].\mathbf{R}[\mathsf{Next}].\mathbf{R}[\mathsf{Next}].\mathsf{argmin}(\mathsf{Country}.\mathsf{Greece},\mathsf{Index})$

2

System generates list of 200 candidate programs

Any gets correct answer: 76.6%

Any gets correct program: 53.5%

How many times did Greece hold the Summer Olympics?

 $\mathbf{R}[\mathsf{Index}].\mathbf{R}[\mathsf{Next}].\mathbf{R}[\mathsf{Next}].\mathsf{argmin}(\mathsf{Country}.\mathsf{Greece},\mathsf{Index})$

2

System generates list of 200 candidate programs

Any gets correct answer: 76.6%

Any gets correct program: 53.5%

Recovering program is unsupervised problem

Challenge

How many times did Greece hold the Summer Olympics?

2

Can we efficiently generate **all** programs (up to some size) that produce the correct answer?
Intuition: dynamic programming

PopulationOf.Denver

Dynamic programming on denotations

Step 1: compute all reachable denotations

Colorado Denver United States ... 649,495

Dynamic programming on denotations

Step 1: compute all reachable denotations

Colorado Denver United States ... 649,495

Step 2: discard denotations that don't reach the correct answer

(in practice: 99% reduction)

Dynamic programming on denotations

Step 1: compute all reachable denotations

Colorado Denver United States ... 649,495

Step 2: discard denotations that don't reach the correct answer

(in practice: 99% reduction)

Step 3: enumerate all programs on remaining denotations

PopulationOf.CapitalOf.Colorado PopulationOf.argmax(Type.City □ ContainedBy.Colorado, Population)

Results: number of items explored



Results: oracle accuracy



- ★ Dynamic programming on denotations
 - Uninitialized beam search
 - Initialized beam search

Results: oracle accuracy



Initialized beam search

Learning macros

the same number of #0 !=.cell1 AND R[col2].col0.R[col0].col2.cell1

how many more #0 R[Number].R[col0].col2.cell1 - R[Number].R[col0].col2.cell3

at least NUM #0 NUM ¿= @num #col:0

when was the last max(R[Date].___)

after #0

R[col1].R[Next].col1.cell0

Ongoing work: use these in learning the semantic parser

Summary so far





- Semantic parsing converts language to programs
- When we have learned the language, search is easy!
- Until then, search is hard, use dynamic programming

Modularity (model)

Natural language specifications

Moduarity (search)

Final remarks









Where's the neural stuff?









• Learn semantic composition without predefined grammar





- Learn semantic composition without predefined grammar
- Encode compositionality through **data recombination**

what's the capital of Germany?CapitalOf(Germany)what countries border France?Borders(France)





- Learn semantic composition without predefined grammar
- Encode compositionality through **data recombination**

what's the capital of Germany?CapitalOf(Germany)what countries border France?Borders(France)what's the capital of France?CapitalOf(France)what countries border Germany?Borders(Germany)



Dataset: US Geography dataset (Zelle & Mooney, 1996)

What is the highest point in Florida?



question answering

knowing



understanding



What is the largest city in Missouri?







Point 2/2: discrete execution

What does differentiable execution buy you?

- Soft reasoning, perhaps (happens in language)
- Avoid combinatorial search

Point 2/2: discrete execution

What does differentiable execution buy you?

- Soft reasoning, perhaps (happens in language)
- Avoid combinatorial search

But get nasty non-convex optimization problem instead!



Point 2/2: discrete execution

- Real gains might be **overprovisioning** (many hidden units)
- Happens in discrete search too (many registers) [Schkufza+, 2013]

.LO			.LO		
movq	rsi,	r9	shlq	32,	rcx
mov	ecx,	ecx	mov	edx,	edx
shrq	32,	rsi	xorq	rdx,	rcx
andl	c1,	r9d	movq	rcx,	rax
movq	rcx,	rax	mulq	rsi	
mov	edx,	edx	addq	r8,	rdi
imulq	r9,	rax	adcq	Ο,	rdx
imulq	rdx,	r9	addq	rdi,	rax
imulq	rsi,	rdx	adcq	Ο,	rdx
imulq	rsi,	rcx	movq	rdx,	r 8
addq	rdx,	rax	movq	rax,	rdi
jae	.L2				
movabsq	c1,	rdx			
addq	rdx,	rcx			
.L2					
movq	rax,	rsi			
movq	rax,	rdx			
shrq	32,	rsi			
salq	32,	rdx			
addq	rsi,	rcx			
addq	r9,	rdx			
adcq	Ο,	rcx			
addq	r8,	rdx			
adcq	Ο,	rcx			
addq	rdi,	rdx			
adcq	Ο,	rcx			
movq	rcx,	r8			
movq	rdx,	rdi			

E 3 🎇 🛞					3	expire	areve-	loarstate.d/	per red	15:35, 15-50-E185
(up a dir)	2 H wake html documents containing all of the pictures in a folder.	2 Dispond +x .config/herbstluftws/t </bin/t </.theses/aresources-gen</th <th>2 H wake a thumbnail for an image</th> <th>2 H this script started it's life as deenu run</th> <th><pre>9 discharge() { acpilgrep Discharging ;} 5 lovel() { acpilgrep Discharging ;}</pre></th> <th>bash.bash_logout bash.bashrc bash_completion.d/</th> <th>proup.pacnew prub.d/ prhadow</th> <th>machine-id</th> <th>parred.DLD parred.DLD</th> <th>sword.conf sword.conf</th>	2 H wake a thumbnail for an image	2 H this script started it's life as deenu run	<pre>9 discharge() { acpilgrep Discharging ;} 5 lovel() { acpilgrep Discharging ;}</pre>	bash.bash_logout bash.bashrc bash_completion.d/	proup.pacnew prub.d/ prhadow	machine-id	parred.DLD parred.DLD	sword.conf sword.conf
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doc/ ent/	6 dir='pud' 7 totalPages=\$((\$(lsiwc -1) / \$limit + 1))	6 7 HFunction hc() { herbstclient "\$27', }	6 name="echo"\$1"(cut -d", " -F1"	6 source \$HORE/.deenurc 7 DRENU=\${DRENU-deenu}	d sleepless="\$HORE/sleepless"	colord.conf colord.conf conf.d/	f atk-3.0/	nime.types nke2fs.conf	polkit-1/ power/ ppp/	trusted-key.key
not/	d IFS="	hc() { cmds="\$cmds :#: \$2" {}	d convert -scale \$scale "\$pic" "\$name"-thumb.png	PATH="\$PATH:SHONE/bin"	10 toggle() { 11 [-3 \$sleepless] &k rm \$sleepless touch \$sleepless	aron.d/ aron.daily/	hortr ifplugd/	ak nitopio.coni ak nitopio.coni ak nitopio.d/	profile.d/	vispagerre vispagerre visca
src/	11 nav() {	11 12 H defaults	10 5011	11 if [-d scachedir]; then		cron.hourly/	InappRagick/	nodulor-load.d/	re.d/ re_kosmaps/	wied/ wpg_rupplicant/
<pre>dotFiles/ . bin/</pre>	<pre>13 echo "(br>" >> pics"Spage".html 14 E Spage -eq StotalPages 1 S6 echo " (a href="pics1.html"><< First page</pre>	13 theme=\$(cat +/.theme) 19 source =/.themes/Stheme	in/#kthumb 10,2 All 1 H Vim: filetype=sh	13 else 14 cache=SHOME/.dmenu cache H if no xdg dir. fall back to dotfile	15 [-n "\$(discharge)"] \$6 [-z "\$(psg mplayer)"] \$6 [! 15 sudo pm-suspend-hybrid	crypttab cupz	ptablez/	staba	re_naps.cfg.pacn	ew Xdg Xinetd.d
alar## aur#	<pre>15 echo " next page > br>" >> pic) 16 }</pre>	<pre>15 pad=\${pad:-11 1 1 1} 16 hc set frame_border_active_color_\${frame_border_active_color-\$fg_c </pre>	2 H git aliases 3 alias g='git'	15 Fi 16	17 }	do Fault/ dopmod.d/ dbcocd.com/	krb5.conf	Ruttra.gpg.dizt	request-key.d?	Sagur tra
autosus* backup*	17 18 Histart the First page	17 hc set frame_bg_active_color \${frame_bg_active_color-\$bg_color} 18 hc set frame_bg_normal_color \${frame_bg_normal_color-#0000000}	push-configs() {	17 cmd=\$(14 (19 low() { 20 while true ; do	drife environment (h.moder	ld.ze.conf	notwork.d/ n/cd_conf n/cd_conf	secure the	
bolt	19 May 20 Wloop that creates pages with \$limit pics plus links at top and bottom I 21 for min in frien one mid runt do.	19 hc set Franc_og_(ransparent stranc_og_(ransparent-1) 20 hc set window_border_norwal_color \${window_border_norwal_color-\$bg} 21 hc set window_border_norwal_color \${window_border_norwal_color-\$bg}	7 builtin cd \$00T	20 if stest -der -n "\$cache" \$PATH; then 20 if stest -der -n "\$cache" \$PATH; then 21 methoda " hotistast -fly \$PATH sort -ullet(ls)" the "teach	22 steep 60 23 steep 60	/etc) cd /usr/share aclocal/ aclocal-1.13/	ait-core/	ai.	aver /	
bst color test*	<pre>22 Horeates the actual image rays 23 echo "Ka href=\""dpir"/"dpic"\">Kimg src=\""ddir"/"dpic"\">K/a>" >> pi</pre>	22 hc set window_border_width \${window_border_width-1}	9 git commit "\$17" 10 git commit "\$17"	22 else 23 cat "Scache"	24 zenitywarningtext "battery very low." 25 steep 10m	alsa/ application-registr applications/	9/ 2 twoh/ 21ade/	87- 27-	prober/	
crap* det	24 ((count++)) I 25 Nput nav links and close the page.	24 hc set default_frame_layout 3 25 hc set focus_follows_shift 1	11	24 Fi 25) \$0AENU)	26 done	autoconf/ autoconf/ automake-1.13/	phatz/		-15/ (maps/	
fet install-grubt	26 test scount -ge slimit 00 (27 nav	26 hc set raise_on_focus 1 27 hc set always_show_Frame 0	13 alias s='sudo' 14	26 27 H if the user selects a directory, go there and execute brws.	24 29 \$0	awah:/ bash_completion/	pnomp-backgroun pnomp-control-c pnomp-doc-utilr	nter/ pol	Lk:t-17	
lid#	29 count=****	20 N campus 11 aviting Kaubindings	15 alias zshrc="\$EDITOR \$HORE/.zshrc"	29 EE -d \$cmd %& \$cmd != .]] && cd "\$cmd" %& cmd="brus"		bibletime/ bizon/	opbject-introsp	ction-1.07 pys	object/	
akap3* akthuab*	31 done 32 Hfinishes off the last page	31 hc keyunlindall 32 H keybindings	14 alias al="SEDITOR /home/ninjaaron/.aliases" 19 alias book="SEDITOR -/docs/my-work/heb/book.txt"	31 case "Scwd" in 32 . 1 H Fm makes a list of files in all subdirectors and opens th	1 H!/bin/bash	calci	a/ profil prub/		iland/	
oggify* picpage*	33 nav	33 Rod=Rod4 34 hc keybind Control-Alt-backSpace quit	20 alias hla="SEDITOR +/.config/herbstluftwn/autostart" 21 alias hlf="SEDITOR +/.config/herbstluftwn/func"	33 ÊN & 1	3 # File browsing with dwenu	calar/ calar/	atk-3.02	76	nd//	
per*	35 exit	35 hc keybind \$Mod-Shift-r reload 36 hc keybind \$Mod-Shift-c close	22 alias hls="\$EDITOR */.config/herbstluftww/swap" 23	35 these) H changes the color scheme 36 themes(ls \$HARE/.themesised '/Ad/d ; /4\$/d ; /wres/d'i)	5 SOURCE \$HOME/.dmenurc 6 DMEMU="\${DMEMU-dmenu} -1 60"	common-lisp/ cracklib/	atk-pnginps/ atkhtml-3.14/		version/	
 config-herbstluftwalb; 	in/picpage 33.2 Alli	30 H anno	25 allas p5="sudo packan -5"	37 SOULAU -P CHEMEST) 34 theme \$themes	d H this is actually the last function called. Customize be	dblatex/ dbuz-1/ dconf-ed;ton/	help/ hzpell/ hudata/	1	rtend/ Lib/	
autostart*	2 HH SWAP! HH Vin: tw=d0	40 hc keybind \$Mod-Return spawn urxvtc 41 hc keybind \$Mod-apostrophe spawn \$conf/swap stack spawn urxvtc	27 alias pSyu="sudo packan -Syu" 28 alias pRs="sudo packan -Rs"	<pre>40 #vicpl"in -s") H helpers for selecting files 41 sour=s(find -L , isDMENU -p "scwd SdURCE;") </pre>	10 open() { 11 case "sel" in	devktop-directories devkelp/ dict/	ana-eta/ iana-eta/ ian-naming-uti		minfe/	
restartpanels.sh* swap*	4 H Functions to give herbstluftwm some dynamic tiling behaviors. I 5 H by Maron "minjaaron" Christianson	42 hc keybind Rod4-d spawn \$HORE/bin/dm 43 hc keybind Rod4-comma spawn \$conf/swap waster_spawn \$HORE/bin/dm	29 alias pU="sudo packan -U" 30 alias y="yaourt"	H2 EE -z \$sour 11 S& exit 43 dest=\$(Find -L \$HOME - type di\$DMENU -p "\$cwd \$sour DEST:") i	12 *.akvit.acvit.avit.flutit.cgvit.ap4tit.a4vit.ap3it. aplayer "\$sel" &	dieu/	InappRaglak-6.6	.2/ 100	cn F/ cn F/	
 config-zathura/ keyboardz/ 	6 I Usage H I	44 hc keybind Rod4-period spawn \$con6/swap stack_spawn urxvtc 45 45 45 45 45 45 45 45 45 45 45 45 45	31 alias ySyva="yaount -Syva" 32	44 [[-z \$dest]] && exit 45 \$cmd "\$sour" "\$dest"&	19 15 *.pdF[*.ps[*.djvu_)	dtdz/	nfo/ nk/cape/		abnailers/	
· ncspcpp/	9.8. Swaps client in and out of "master" or "stack." If there is only only 10.8. "auto" solits it Example keubinding in beristluftwafe subortart.	47 hc keybind Shift-F3 spawn SHORE/bin/light dub	34 alias apps's apt-get punge' 35 alias apps's apt-get punge'	47 man) 48 potrues(17 17 14 t joelt pjelt one j	enchant/ et/ FbReader/	ack-audio-conn ava/ kbd/	Ation-kit/ tra	10/0.10/	
- vim/ aliases	11 H hc keybind \$Mod-sewicolon spawn /PATH/TO/swap auto 1 12 HHH stack_spawn	49 hc keybind XF46AudioRaisePolume spawn pamikerincrease 5 50 hc keybind XF46AudioLawerPolume spawn pamikerdecrease 5	36 alias agdu='s apt-get dist-upgrade' 37 alias agac='s apt-get autoclean'	49 (IFS=''' 50 Find \$(wanpath))	19 gqview "ssel" &	(Inter	kde47 kosutilz/ laptop-mode-toe		31	
dmenurc mpdconf	13 R – Focuses stack and runs command, good wrapper For terminal: 1 14 R — hc keybind \$Mod-period spawn /PATH/TO/swap stack_spawn xterm - 1	51 hc keybind XFd6AudioRute spawn panixertoggle-mute 52 hc keybind XFd6AudioPlay spawn mpc toggle	36 alias agar='s apt-get autoremove' 39 alias aar='s add-apt-repository'	51 sed -n 's/.*\/\(.*\).1.gz/\1/p'isorti 52 \$DMENU -p "Nan:")	21 *.xfc) 22 gi#p "\$sel" &	postctool/	Libeaca/ Libeavi-zeriptz Libearian/	/ #P	t totk - 1 . 0/	
pentadactytrc pystart.py	15 RHH waster_spawn 16 H — moves clients in waster to stack and runs command, possible wrapper1	53 hc Keybind XFd6AudioRext spann apc next 54 hc Keybind XFd6AudioPrev spann apc prev 55 hc Keybind XFd6AudioPrev spann apc prev	40 allas acs="apt-cache search" 41 41 allas acs="apt-cache search" 42 allas acs="apt-cache search"	53 urwete -e SSHELL -e "man Sentry" 59 59 unitation - units and the stational control of the sentence of the stational control of the sentence of the stational control of the sentence of the	23 *.odpl*.odpl*.odgl*.doc) 24 *.odpl*.odpl*.odgl*.doc)	ocens/	L btool/	815 X25	/ · · ·	
vinc	18 H hc keybind \$Rod-comma spawn /PATH/TO/swap master_spawn dmenu_rul 18 HH close	56 hc keybind XFdbSleep spawn \$HdME/bin/pwr 57	43 49 49 H power	sid-curseslinfoAlweechat-curseslhtoplyaourtAl"man "A)	26 11 27 *.html/*.html	genelue-providers/	iscale/	100	reenzaver/	
Xresources zprofile	20 M IF client in master frame is closed, it is replaced by a client from 21 M stack. If stack is empty, it's removed, used like hlwm "close" comm!	50 H Lags 59 TAG_NAMES=({13} 9 W)	45 alias reboot="sudo shutdown -r now" 46 alias halt="sudo shutdown -h now"	50 59 *)	24 FireFox "\$sel" & 29 11	phost/cript/	nimp/ nimp/		brars/	
zshenv zshrc	22 H hc keybind \$Rod-slash spawn /PATH/TO/swap close 23 H m covers H	60 THG_KEYS=({13} 9 m) 61	47 alias sus="sudo px-suspend" 44	60 echo "\$c#d" \${SHELL:="/bim/sh"} % 61 esac	30 *) H with undefined extentions, open vim. If the dire 31 H somewhere in SHOME, ask for sudo. 33 H somewhere in SHOME, ask for sudo.	dit/ Just/sharps od bin ataret backupt	breza crep	install-prubt	lighit aggifyt.	thenes.
- Rolokai/	25 H split_direction = Frame split's orientation. "horizontal" or "vertical 26 H split_ratio determines split's incation, value between 0 1 and 0 9	63 for i in \${!TAG_MARES[3]} ; do	50 alias is="iscolor=auto -F" 1 alias isl="is -ib"	63 exit	33 Ef \$(echo -e "g\nn")\$04ENU -p "sudo?") = g]]; the unsubc -e "g\nn" \$04ENU -p "sudo?") = g]]; the	autozurt batt	colorterts int	tidt	Akthunts purt	wiki.zht
· Py/ vid/	27 H stack_layout = stack's hlwm layout. "horizontal" "vertical" "max" "gril 28 H stack_frame = frame for stack. 0=top/left l=bottom/right d=smaller frail	65 hc add \${TAG_MAREs[\$1]} 65 hc keybind \$Rod-\$key use_index \$i	52 alias Isae"Is -a" 53 alias Islae"Is -lha"	2 " environment	35 exit 36 else	de fault	/keyboards/ane	Septers 127 410		
sleepless	29 split_direction="horizontal" 30 split_ratio="0.6667"	67 hc keybind \$Rod-Shift-\$key wove_index \$i 60 done	54 alias df="df -h" 55 alias du="du -h"	3 set nocompatible backspace=indent.eol.start history=50 nowrap woul 4 set ruler showcwd incsearch lbr expandiab tabstop=2 shiftwidth=2 !	37 uravic -e sh -c "via "\$PWD/\$sel"" 38 Fi	xkb_rymbol/ "ano" (2_K893			
	31 Stack_Lagout="Vertical" 32 stack_Frame=1	59 ARC Keybind \$Mod-w use web : keybind \$Mod-Shift-w wove web 1 70 H keybind \$Mod-w use web : keybind \$Mod-Shift-w wove web 1	56 allas grep='grepcolor=auto' 57 allas Fe'find -L -name'	<pre>6 Set nu cursorline witcheou witchcoelist longest witt 6 let g:SuperTabDefaultCompletionType = "context"</pre>	40 }	key type (group1):	USA - AND Transerip	tion Characters";		
	34 H three little Functions used over and over. 35 hcl) f herbstelient SL:: hcc) f hc chain SL:: chn() f cmds="Scmds . 5]	72 H layouting 73 hc keybind \$Mod-r remove , keybind \$Mod-space cycle layout 1	59 alias asterautosus toggle" 60 alias moters mount'	d filetype plugin indent on 9 set efn=Ubuntu\ Mono\ 10 gp=	74 H use 'find' to get the entire contense of \$HORE recursiv V3 search() f	key (LSGT) C C key (LSGT) C C	prove, arciitilde	dead_grave;	plurminur 1 2 dead_horn 1 2	
	36 37 set_vars() { HHH some vars need to be set more than once.	7% hc keybind \$Mod-u split vertical 0.5 75 hc keybind \$Mod-o split horizontal 0.5	61 62 alias twa="twux attach -d" Hopens a window with the last twux ses!	10 11 if has("gui_running") colorscheme molokai		key (8501) C C key (8502) C C	a, numbers;	st, trademark, st, trademark, sterling,	Eurosian 3	
	38 dump=(\$(hc dump)) H put the content of hc dump into an array I 39 H values based directly on the dump I 10 bits of dump into a second	76 B split wore precisely 77 for i in (1. 9), do	53 alias wage wam -cookie google.com 54 alias poge ping google.com	12 else colorscheme cterm 13 endif	46 A Files. In \$HIME, hide hidden files by default unless 47 A selects 'unhide.'	KP9 (AEOL) C L	E, areildireun	reation,	urag2 1 21	at ligature
	<pre>41 Orientation=\${dump[1]%:x} # Frames split horizontal or vertical 41 Pramesfdump[1]%:x} # Frames split horizontal or vertical 42 Framesfdump[1]00:x</pre>	79 hc keybind \$Mod-Control-\$i split vertical 0.\$i	66 alias td="transmission-darmon" 7 alias ta="transmission-remote -a"	15 augroup viercEx 16 au	10 if [[s(PMD/\/home*/\/home] = /home]].then	key AEDA C L	arter: parente	t enfilledcirch	periodcentered	
	H3 EmptyDis(dump[3]]=1) H empty frames =')', same for following 2 vars H4 Emptyl=s(dump[5(Hdump[3])-1]HH+:},Emptyl=s(Emptyl:1:1)	d) hc keybind \$Mod-space cycle_layout 1 d2 hc keybind \$Mod-space cycle_layout -1	64 alias tl="transmission-remote -l" 69 alias hç="herbstclient"	17 autocmd bufRead /tmp/pentadacty%.txt 18 \ source /home/ninjaaron/.vim/pentadactyl.vim	51 52 if [[\$show = hidden]]; then		equal, underscore	notequal;	pluzminuz 1 2:	
	<pre>45 EmptyAll=\${dump[]]#*;}:EmptyAll=\${EmptyAll:1:1} 46 H use absolute values from dump to determine values relative to stack/!</pre>	d3 hc keybind \$Mod-s floating toggle d4 hc keybind \$Mod-f fullscreen toggle	70 alias di="diatheke" 71 alias dk="diatheke -b WET -k"	19 autocmd buffead /tmp/uzbl_edit* source /home/ninjaaron/.vim/peni 20 autocmd buffeadPost *	53 Find -L .1 54 sed "//\$/d : /Ubuntu dne/{ H; d; }; \$ { p; x; }"	key (4001) C C key (4002) C C	3:	. uzzîî	doublelowquotewark)	2: // summation (capitol
	<pre>Hatter [State frame = 0 11 Spitz[direction := Solientation]] + Hatter [State for the state</pre>	d6 hc \$contract	73 alias app="aplayer -playlist" 74 alias app="aplayer -playlist"	autocad vianter * if large() MEROTree endit	56 else 57 élant -	key (1005) C L		regiztered	dagger 3	21 // Pornille ine below
	51 [\$Frame = "O"] & emptyInact=\$Empty1 emptyInact=\$Empty0	88 H some keybindings like to change on different hooks. 89 herbstclient -il	75 76 gap() { herbstclient emit_hook "gap \$2";}	24 augroup ENO	Sd sed "/\/\./d \./ulconF/d \./~\$/d \./Ubuntu dne/{ H. so echa "unhide"	key (ADDA) C C	1 H	dead_diaprofiz	diaprosis U0226	2 // circumflox
	SE if [[ddrientation = "horizontal" 30 \$stack = "1"]], then SE stackOrr, masterDel, emptyStack="SEmpty1", emptyMaster="SEmptyD"	90 while read line.do	77 78 H Find processes that match a regex	26 " waps and commands and so forth 27 wapelear wapelear	60 fi 51	key (ADID) E E br	p; acketleft, bracele	P. Greek_pli	U220F i	52 // product (capitol Pi ; // loft half-ring (avin)
	Si etik II Surientation = "Vertical" %% Stack = "1" JJ, then Si stackDed, masterDeu, emptyStack="SEmptyl", emptySter="SEmptyD" StackDed = StackDed = "Vertical" SEmptyL', emptyStack = "1" JJ, then StackDed = StackDed =	32 a reave the gap 133 nogap) herbstclient chain : set frame_gap -1 : \ 134 ret window name (findow name)) , keebind (findo) emit book 21	74 psg() (ps auxigrep "surigrep -v grep,) 40	<pre>24 COMMING P3 PODMIDGELE 35C1100C 29 noremap (C-W) :NEROTreeToggle(CR) 20 command Differin wert new Loop throngile Lin aantit B L D4 L dill</pre>	63 Find .lsed '/-\$/d'	keý (AD12) C Ebra key (BKSL) C E ba	ckotright, bracorig ckrtarh, bar	it; UO262; riĝhi guillemotleft,	guillemetright 3 2	(22 right half-ring Kalef 5
	<pre>ST stack0=1; wasterD=r; emptyStack="SEmptyD"; emptyMaster="SEmpty1" if elif [[sdrientation = "wertical" Sd sstack = "0"]]; then</pre>	<pre>95 set frame_border_width \${frame_border_width-1} :\ 96 pad 0 \$pad :\</pre>	<pre>42 [[-n \$0]] \$6 [[-e \$0]] \$6 owner=\$(\s -\ \$0]cut -d' ' -F3) \$ 43 [[\$owner != \$U\$[E]] [] [[\$CPWD/\$HORE/} = \$PWD]] \$6</pre>	31 \ I winced p I diffthis	55 56 sel=5(echo "Smenu"ISDRENU -p "search SPND:")	key (4001) 5 5	23	S: 05129:	Goice :	23
	59 stackD=u; masterD=d; emptyStack="\$EmptyD"; emptyBaster="\$Empty1" 60 fi	97 pad 1 Spad 1 98 H add the gap	44 Hecho -n "sudo [Y/n]?" 66 read sudo 66 [[\${sudo:-y} = y]] 66 45 sudo \$EDITOR -c "syntax off" \$D \$EDITOR \$D	33 " syntax toggling 34 Function! ToggleSyntax()	67 case \$sel in	key ACOS C C		dead_belowdoi.	dead hook 1	
	b) Strane = \$Stack 100 act=\$stack0 60 inact=\$master0 { act=\$master0; inact=\$stack0; }]	<pre>99 gap#) gap#s(line/gap /);aFad0(\$pad) 100</pre>	db } d7 4 M 2nd2 onto you where you're print!	35 1F EXISTS("g:Syntax_on") Syntax OFF 36 else syntax enable endif 27 endimention	61 EX1E 44 70 hide)	100 HEB2: E E			enchali	
	64 65 MHH Functions called by the luser 11	102 done 103 herbstclient chain :	49 cd() { 90 E -z "91"] S& builtin cd - builtin cd "91" ≥> /dev/null	34 " hebrew mode toggle 39 Function! ToggleHebrew()	72 search () 73 unbide)	key (ACID) t t /e key (ACID) t t /e key (ACID) t tapo	ricolon, colon rtrophe, quotedbi	u2026	thern 3 21 at 1 21	N
	66 auto() { HHH swap out of the current frame into the other. 167 if [-n "SCAPLyAll"], then H ExplyAll is null if 1 frame with clients]	104 Set Frame_gap "-\$gap" :\ 105 Set Window_gap \$gap : set Frame_border_width 0 :\ I	91 builtin (d //*\$1" 2> /dev/null { 92 EE \$P40 != '/']] 66	40 if %l:rightleft == 0 set rightleft keywap=hebrew 41 else set morightleft keywap= endif	74 show=hidden 75 search 44	key (8601) C C		2. Johang. U2248	dead_cedilla 1 dead_ogenek 1	
	59 ["SceptyInact" != ')'] 59 ["SceptyInact" != ')'] 70 chn cycle -], shift -e Sact , focus -e Sinact , cycle)	100 pad 1 \${aPad[10]}: 107 pad 1 \${aPad[20]}: 108 kewbind \$fod-0 exit hook nogae	Found=(S(Find -L, -type d -name "S1" 2> /dev/null)) Found=(S(Find , -type d -name "S1" 2> /dev/null)) Si if [-n "found"] it then	H2 "create bindings For insert and norwal wode together. H4 Function! Dualbind(key.command)	77 browse "\$2" 74 esac	koy (8604) () koy (8605) ()	1745	A squareroot	idottorr 1 dead_tilde	
	71 else # One Frame? split it. move client to new Frame, set stack tayoutil 72 hc split split girection \$split_ratio, set_vars	109 expand) herbstclient Sexpand ;; 110 contract) herbstclient \$contract;;	96 cdlist 97 else	45 exe "noremap (Leader)", a:key a:command 46 exe "inoremap (Leader)", a:key "^0", a:command	79 3	Key (4607) C L Key (4606) C L Key (4605) C L	poriod. proator	dead macron dead breve	threequarters 1 lessthanequal 1 2	2.
	73 ["split_direction" = "horizontal"]&&chn shift -e r II chn shift -I 74 chn Focus -e \$slackD, set_layout \$slack_layout	III esac II2 dones	98 Found=(\$(Find -L + -type d -name "\$1")) 99 cdlist	47 endfunction 48 " keynaps	d1 H browse files one directory at a time, the only way out d2 H into browse(). However, when \$sel is a file, browse() h	key (SPCE) C C	space, space,	nobreakspace,	nobreakzpace 1 2	5 5
	76 Fi, hcc "Scwds"	114 H switch to different layouts directly 115 hc keybind sMod-Alt-v set_layout vertical		50 " settings 51 norreap (silent) (Leader)sy :call ToggleSyntax()(CB)	44 H I've thought about changing to go directly to open() Fr 45 H but I spent my time writing this sentence instead.	include "level3(r	alt_reitch)"			
	78 stack_spann() { HHH spawn applications in the stack. 11 79 【 "StaptyAll" = ')'】 60 \$0 [] H just spawn if no other clients exist.]	116 hc keybind \$Mod-Alt-h set_layout horizontal 117 hc keybind \$Mod-Alt-m set_layout max		52 call Dualbind('i', 'scall ToggleHebrew() <cr>') 53 call Dualbind('r', 'wygg)'v')</cr>	46 browse() { 47 while [-d "\$sel"]; do					
	AD 1F [-2 "SEMPTYALL"], then SD, auto; else he focus -e SstackD, SD; [] AL } AL Parties convert for MMM conversions in the exchange []	110 hc keybind \$Mod-Alt-g set_layout grid 119 H "Master Window" type stuff 120 hs keybind find-remining rown foneficuum with	US cdist() { US if [\${[\$chend}]-gt 1];then If (\$chend) = the total states of total states of the total states of	59 let settings = [['Fi', 'Foldmethod=indent'], ['tw', 'tw=72'], ['W 55 For [key, setting] in settings 55 June Boll multipation for the setting and the setting	dd cd "psel" dd seled(ls -algonewu -p "spwb:")	2 1		5.28 Task 2.68 Load	(s: 66, 95 thr. 1 ru d average: 0.09 0.11	0.16
	d3 if ["\$EmptyAll" = ')'] d4 then \$0	121 hc keybind \$Mod-slash spawn \$conf/swap close	08 ccho "\$(i). \$(Found[\$1])"	57 " saving and quitting 56 For Key in Fly', 'g', 's'l	91 done	4 Ei Mentiiliiliiliilii	62	2.62		
	dS else A moves all the clients in master out and then spawn [] d6 [-z "\$EmptyAll"] \$6 auto []	123 # resizing 124 RESIZESTEP=0.01	10 echo -n "which? " 11 read sel	59 exe "call Dualbind("".key."", ":".key."(CR>")" endfor 50 " filetypes	93 case sel in	Swp		1/1659M6		
	<pre>dd hcc , Focus -e \$master0 , shift -e \$stack0 , Focus -e \$master0;set11 dd hcc , Focus -e \$master0 , shift -e \$stack0 , Focus -e \$master0;set11</pre>	Ico nc Keyoino Shob-Lontrol-n resize tere +SKESIZESTEP 126 hc keybind \$Mod-Control-j resize down +\$KESIZESTEP 137 hc keybind \$Mod-Control-s resize down +\$KESIZESTEP	13 else	exe "norewap (Leader)F", key " :set Filetypes", ft "(CR)"TendFor	95 SEARCH 11 95 (***)	Time detiet	Title	(ilename	01	[c]-
	90 Fi	12d hc keybind \$Mod-Control-1 resize right +\$RESIZESTEP	15 fi 16 }	64 For key in ["h", "j", "k", "l", "#", "j", "g", "L"] 65 exe "call Dualbind("".key."", """.key."")" l_endFor	93 *3 99 DPERS	4:36 Christina P	erri Pengu	in	Lo	vestrong [Deluxe Edition]
	92 close() { HHH close client. Fill master if empty. remove stack if empty.[] 93 hc close(set_vars) 13	130 H mouse 131 hc mouseunbindall	17 18 H resets the size of the framebuffer for the tty	66 get ya some output from shell commands 11 67 nmoremap Kleaderish : IshCR> 11	00 6526	Playing: Christina	Perri "Lovestrong E	eluxe Edition]" ((2011) - Penguin	[0:30/4:36]
	Sempignaster = []] & mcc , Pocus -e \$stack0 , shift -e \$masterD&d [\$empigStack = ']'] & hcc , Pocus -e \$stack0 , remove]]	13 ha musebind \$And-button2 room 13 ha musebind \$And-button2 room	20 [-2 "\$17] 66 Fbset -9 1600 900 1600 900 38 Fbset -9 "\$17" "\$	as what every subsections and associate state of the subsection	ue 03 W the search() is the default behavior, but I also have t 04 W aliased to "brus" so when invoced that asso it come be	:		05: Arch Linux a Hostname: Folio	(46_64	
	97 SDiexit H do something and exit	135 136 H Focus	22 23 H opens a two session with an optional command	71 " pasting 11 72 wheremap (Leader)c "+N	OS 16 EE 40 = Abrus 11; OS 16 EE 40 = Abrus 11; OS the selu-seven s downe	HH		Uptime: 10:44, 1 Kernel: 3,7.9-1-	l9 sec ARCH	
		137 hc keybind \$Mod-BackSpace cycle_monitor 138 hc keybind \$Mod-Tab cycle_all +1	29 tm() { tmux new-session "\$27 t) 25	73 inoremap <leader>v ^0"+P [] 74 call Dualbind('P', "'*P') []</leader>	07 else search 04 fi	11H 3_HH		Shell: /bin/zsh Packages: 677	Nucley 1 to 5 bits	
		is no keydind Shad-Shirt-IAB cycle_All -1 140 ho keydind Shad-o cycle 111 ho keydind Shad-b facus left	en an tooks up a Moro using the local dictionaries (27 Hol() { dict "\$*"lvinpager, clear ; 28 HB locks up a word using remote dictionaries	To delfunction Dualbind	10 exit	+#####		GTK2 theme: Dark	Looks Faenza-Darkest	
		142 hc keybind \$Mod-j Focus down 143 hc keybind \$Mod-k Focus up	29 Hdr() { dict -h dict.org "\$*" vimpager, clear, }					GTK2 Font name: RAM: 624 M6 / 35	bitocra 10 02 MB (15%)	
		199 hc keybind \$Mod-l focus right 195 hc keybind \$Mod-i jumpto urgent						Home: 156 / 986	(16%) (btrfs) (16%) (btrfs)	a 1,406Hz
		ine keydind Smod-Shift-h Shift Left 197 ha keydind Smod-Shift-j shift down 194 ha keydind Smod-Shift-k Shift um						1001: 0.30 / III		
		149 hc keybind \$Mod-Shift-1 shift right 150 hc keybind \$Mod-# toggle focus_follows_mouse				HH.	1			
	rc/dotfiles/conFig-herbstluftww/swap 92,38 All s	src/dotfiles/config-herbstluftwm/autostart 2,0-1 Top				→ Π				

L 2 3 Press ? Fr (up a di /home/ninja

2 3 🎇 🛞 s 7 for hele 🛛 🗎					3	axelrc group- logrolate.d/ pazzwd zwdeerz.d/
a dir)	H wake html documents containing all of the pictures in a folder.	2 0 3 cheed +x -/.config/herbstluftwm/t -/bin/t -/.themes/kresources-gen	l Hiyuanydaan 2 H make a thumbnail for an image 3		<pre>discharge() { acpilgrep Discharging ;} 5 lovel() { acpilgrep // ting, \(/\)// */\// ;}</pre>	barh,barh,logout (roug),gacmeu tek/ garrud D.C. rudner, kmg* barh,barh da yrub d' nach no-id garrud D.C. rudner, kmg* barh, som betinn, d'yrhadau nail,rc garrud pacneu rystt, dan i da yrub de garrud pacneu rystt, dan i
-> /home/ninjaaron	ipage=1 dar='page' dar='page'	<pre>% compersump, comply/recostupter" % kilall herbstclient %</pre>	<pre>> plc="51" 5 [-n "52"] & scale="52" scale=250 [name="echo "51" cut -d", " -F1"</pre>	5 H get user configs 5 source \$HORE/ deenurc	<pre>stopless="sk0#E/sleepless" </pre>	binistia? Sihadau pacnew wan dbicani picrili riytend? ca-certificater: Sragi mech cani wadan cani pr/ toxaf? ag-aertificater.aani gti-gil noch cani pr/ toxaf?
	totalPages=\$((\$(lsiwc -1) / \$limit + 1)) IFS="""	7 Hfunction hc() { herbstclient "517", } d hc() { cmds="\$cmds :H: \$17" ;}	<pre>convert -scale \$scale "\$pic" "\$name"-thumb.png</pre>	7 DMENU=\${DNENU-dmenu}	10 toggle() (consid) hort.cons mkinicpis.cons profile d/ vipager.cog consy/ hort.none mkinicpis.cons profile vipager.cog consy/ hort.none mkinicpis.coms profile.d/ vipager.cog
	H Function For navigation links	0 hc emit_hook reload	10 exit	10 cachedir=5(X00_CACHE_HOME:-"\$HOME/.cache"} 11 iF = -d "\$cachedir"]; then	12 3 13 3 13 13	arman dalty/ ifglugd/ mkinikajin d/ protocalt/ vinta' arman dang istab nadprabla d/ pultr/ yotra arman hourty/ InageRagick/ madultz-load.d/ rc.d/ widd/ arman hourty/ inageRagick/ madultz-load.d/ rc.d/ widd/
tora/ 11 tfiles/ 11	[\$page -gt 1] %% echo "Kbr>Ka href="pics\$((\$page - 1)).html">K previ echo "Kbr>" >> pics"\$page".html f toppe -em \$thollPaper 1 \$6 refm "Ka href="pics1 html">KK first pape	12 H defaults 13 themes(cat //.theme) 14 source // themes(ctheme	 bin/mkthumb 10,2 All H vim filmtupmach 10,2 All	12 cache=\$cachedir/dwenu_run 13 else 14 cache=\$MARF/ dwenu cache N if on sdu dir. Fall back to dotfile 1	14 idle() { 15 [-m "\$(discharge)"] 60 [-z "\$(psg mplayer)"] 60 [! 16 sudm am-suspend-bubrid	cran.worksy prauto/ pad.con/ rc_napr.cis.pacnew xdg/ crypitab ptabler/ nplayer/ rc_napr.cis.pacnew xdg/ cypit/ rean.con/ tabl
alaret 11 aurt 11	<pre>echo " mext page > br>" >> pic</pre>	15 pad=\${pad=11 1 1 } 16 hc set frame_border_active_color \${frame_border_active_color-\$fg_c	2 H git aliases I 3 alias gr'git'	15 Fi	17) 14	dbuz-1/ / //wp Ruthrc. regus-1-key.con/ xml/ default/ java-7-apenjak/ Ruthrc.di/t regus-1-key.d/ yaaurtrc depmed.d/ krbi.con/ Ruthrc.gp.di/t re/siv.con/ t/h/ defauld/ post-2-key.d/ yaaurtrc
backupt 1 baractiont 1	Histart the First page	17 ho set Frame_bg_active_color \${Frame_bg_active_color-\$bg_color} 16 ho set Frame_bg_normal_color \${Frame_bg_normal_color-M0000000} 19 ho set Frame_bg_transparent \${Frame_bg_transparent=1}	s push-configs() {	17 cmd=\$(14 (19 TFSE,	19 lox() { 20 while true ; do 21 while f t(level) -ot 5 1 () f -z "t(discharge)"]; do	drife 10.so.cacho notwork.d/ socurety onvironment 10.so.cani nsed.cani socurity/ ta.mado, socurity/ ta.mado, socurity/
brust -> /home/nil 2	Bloop that creates pages with \$limit pics plus links at top and bottom For pic in *[apg.png.gif.svg].do	20 hc set window_border_normal_color \${window_border_normal_color-\$bg 21 hc set window_border_active_color \${window_border_active_color-\$fg	builtin od \$00T d git add "*"	<pre>if stest -dgr -n "\$cache" \$PATH; then</pre>	22 sleep 60 23 dong	actuaci (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
colortest* 2 crap* 2	<pre>echo "<a \"="" href='\""\$dir"/"\$pi'><imy "\"="" arc='\""\$dir"/"\$pi'></imy>" > pi ((count++))</pre>	23 24 hc set defauht_frame_layout 3	1 git commit "pu" 10 git push origin waster 11)	ec else 23 sat "\$c.the" 24 F	25 sleep low 26 done	application-registry/)itweb/ ss-preder/ applications/)ide/ packan/ applications/)ib-2.0/ pavgentrol/ apiters/
fat 12 fat 12 install-prubt 12	tert scount -ge timit 66 4	akitan suhn	rograme VII	a di largari d	search on	aratake
kbcycle* 2			IVELALIIS VI			
light# 3 mkmp3# 3 mkthumb# 3	i done i Bénnishes néé the last page i i	30 H renove all existing keybindings 31 hc keyunbindal-	17 alias vik sevas trok skoks/ vikre" 10 alias ale"sevridk /home/nigaron/.aliases" 19 alias book="SECTION & /decs/me-work/beb/book_tst"	30 31 case "\$cwd" in 37 18 fm makes a list of files in all subdirectors and mens thi	bin/autosus 3,0-1 6ot 1 H//bin/bash	ca-certificate/ jraphite2/ 11 ca-certificate/jraf/ prof/ redlams/ grub/ redlams/
picpaget 3		33 Rod=Rod4 34 hc keybind Control-Alt-BackSpace quit	20 alias hla="SEDITOR +/.config/herbstluftwm/autostart" 21 alias hla="SEDITOR +/.config/herbstluftwm/func"	33 Én &	3 # File browsing with dwenu	calari, bi-doiny data for a second calaria and calari starod calari
these*		35 hc keybind Shod-Shift- close 37 hc keybind Shod-Shift-close 37 hc keybind Shod-X close	23 24 H packagnanagnent	<pre>35 theme={\L_states} the total schemes/d , /*\$/d , /*res/d'1\ 1 37 \$DMENU -p 'themes:')</pre>	6 DMENU="\${DMENU-dmenu} -1 60"	common-spr (to-eng.mpr) cracktb/ (to-eng.mpr) cupr/ (to-eng.mpr) dblates/ http:// / ///////////////////////////////
<pre>config-herbstluftwm/bit wbmdxd/ autostart#</pre>	/picpage 33,2 All H!/bin/bash	38 39 K apps 90 be keebind thed-Return seave wexete	25 alias p5="sudo pacman -5" 26 alias p5s="pacman -5s" 27 alias p5us="pacman -5s"	34 theme \$theme& 1 39 theme \$themes for selection files 1	d H this is actually the last function called. Customize be 9 H extnlion here. 10 need 16	dbuz-1/ hrpbl/ rystond/ dcani-oditor/ hudala/ 111b/ derking-directories/ ilan/ babret/ derking-directories/ ilan/
panel.sh* restartpanels.sh*	HH SWAP! HH vin: tw=80 H Functions to give herbstluftwm some dynamic tiling behaviors.	41 hc keybind \$Mod-apostrophe spawn \$conf/swap stack_spawn urxvtc 42 hc keybind Mod9-d spawn \$MOME/bin/dm	24 alias pRs="sudo pacman -Rs" 29 alias pl="sudo pacman -U"	<pre>41 sour=\$(Find -L . 1\$DRENU -p "\$cmd SdURCE:") 42 IE -2 \$sour 1] % exit 44 EF = 2 \$sour 1] % exit 45 EF = 2 \$sour 1] % exit</pre>	11 case "\$sel" in 12 *.mkvl*.movi*.avi*.k.flv*l*.ogvl*.mp%l*.m4vl*.mp3l*.	diti/ idam-naming-util// Barnin/a/ diagonor/ can/ baxin/a/ diwu/ bax
config-zathura/ keyboardz/	H by Haron "minjaaron" Enristianson (ninjaaromagkait.com/	43 hc keydind hdoffcoma spawn Sconf/swap waster_spawn Smont/osn/ow 1 99 hc keydind Rod9-period spawn Sconf/swap stack_spawn urxvtc 45	31 alias ySyua="yaountSyua" 32	HY [[-z Sdest]] 6% exit HS Scad "Scar" "Sdest"%	11 April 11 11 11 15 *.pdfl*.psl*.djvu)	dtat/ intb2/ theno/ dtat/ intal thumbalors/ omac// intrago/ thumbalors/
nutt/ ncmpcpp/	HKH auto #	46 H convands 47 hc keybind Shift-F3 spawn SHOME/bin/light dub 44 hc keybind Shift-F3 spawn SHOME/bin/light half	33 alias agi='s apt-get install' 34 alias agp='s apt-get purge' 25 alias agn='s apt-get purge'	46 (W launch interactive programs in a terminal. 47 47 man) 44 matrix-fr	16 zathura "\$sel" & 17 iii t inplt picit ppp)	omorono/ intitoni/ taux/ onchant/ jack-audio-commetion-kit/ transmizzion/ ot/ vala/ Thomator/ (bd/
vim/ 11 aliases 11	H hc keybind \$Mod-semicolon spawn /PATH/TO/swap auto	49 hc keybind XF46AudioRisePolume spann panixerincrease 5 50 hc keybind XF46AudioLowerPolume spann panixerdecrease 5	36 alias agdu='s apt-get dist-upgrade' 37 alias agac='s apt-get autoclean'	19 (IFS=1) 50 Find \$(manpath))	19 Squiew "ssel" &	fingen/ Kde%/ vin/ salet/ kowilis/ vin/ ter laptop-mode-test/ win/
Apdconf 11 Pentadactulec 11	FR FOCUSES STACK AND FUNS COMMAND, godd wrapper For terminal: FR hc keybind \$Mod-period spawn /PATH/TO/swap stack_spawn xterm F HHN master_spawn	SI NC Keydind XrabudioNUTE spann parixertoggte-mute S2 NC Keydind XrabudioPlay spann mpc toggte S3 Nc Keydind XrabudioNext spann mpc next	38 alias agar='s apt-get autoremove' 39 alias agar='s add-apt-repository' 40 alias acs='apt-cache search'	52 \$0AEKU -p "Man:") 53 UNAVE - \$58EEL -c "Man Sentry"	22 gimp "\$sel" & 23 11	politoni/ libuv/-scripts/ web/ijgk-j.d/ ga_4,7.2/ librarian/ wep/paste/ Com// libtai/ wide/
Pystart.py 11 vifarc 11	H moves clients in master to stack and runs command, possible mapper H dmenu_run;	54 hc keybind XFd6AudioPrev spawn apc prev 55 hc keybind XFd6PowerOFF spawn SMORF/bin/Pwr	91 92 alias grub-update="sude grub-#kconfig -e /beet/grub/grub.cfg"	54 55 youtube-viewert torr tust vif#t vif edt nanot ncmpcpp cmatri	24 *.odtl*.odgl*.odgl*.doc) 25 libreoffice "\$sel" &	gdar Libtonlr 211/ gdar Liconzer xebr gedit Liconzer xebr gedit Liconzer xebr
sinitrc 11 Kresources 2	I HANA close I HANA close I H IF client in waster frame is closed, it is replaced by a client fro	ST H Lags	14 H power 15 alias rebool="sudo shutdown -r now"	57 Urwet -= \$SHELL -c "\$cad"	27 *.himli*.him) 24 FireFox "\$sel" &	getapi/ (7hu/ xzcromraver/ gettoxi/ ivagporance/ xzer/ionz/ phartzcript/ nan/ zenity/
zshenv 12 zshenv 12 zshrc 12	# stack. IF stack is empty, it's removed, used like hlwm "close" commi- # hc keybind \$Rod-slash spawn /PATH/TU/swap close	59 TAG_MEMESE({13} q w) 50 TAG_KEVS=({13} q w) 51	46 alias halt="sudo shuldown -h now" 47 alias sus="sudo px-suspend"	50 echo "\$c#d"1\${SHELL:-"/bin/sh"} % 51 esec	 a) # with undefined extentions, open vis. If the dire B somewhere in \$HOME, ask for sudo. 	iri.0/ einclinfe/ ii/ einclinfe/ ii/ wrigharey of bin
nl/ 2 lokai/ 2	H CONFIG H H split_direction = Frame split's orientation. "horizontal" or "vertical H split_direction determiner split's location value between D 1 and D	62 hc rename default "\${TAG_MARES[0]}" true 63 for i in \${[TAG_MARES[0]]; do	49 H mise command shortcuts 50 alias ls="lsellorauto -F"	68 53 54 5 54 5 53 5	32 if EE \$(PwD/A\$U\$ERA/\$U\$ER}) != \$U\$ER]] 60 33 EE \$(echo =e "y\nn")\$0RENU =p "sudor") = y 33 ; the 34 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 35 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 36 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 37 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 38 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 38 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 39 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 39 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 39 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 39 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 39 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 39 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\nn" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the 30 echo =e "y\n" \$0RENU =p "sudor") = y 33 ; the \$0RENU =p \$0R	alarn backupt Drugi craph in/toli-prubn ljnik opjisni knonon aurs baraklink bri dni kbuçuler nekpös picasjon wiki.jht aubzrurt balt calartorit fni lidi nekhunbi purt
	" # stack_layout = stack's hlwm layout. "horizontal" "vertical" "max" "grif ! # stack_Frame = Frame for stack. D=top/left 1=bottom/right d=smaller Fraf	55 hc add \$(TAG_KARES[\$1]) 55 hc keybind \$Rod-\$key use_index \$i	58 alias Isan"Is -a" 53 alias Islan"Is -tha"	2" environment	35 exit 36 else	bing db2/ Whi? Wu?/ No?/ bi2/ stoptor/ sr2/ via/ // cat re/dbis/loc/negboardv/ame de/auto gatial abhanumeric keyz
PLESS 1 21 1 31 1 32	split_sinectson="morizontal" split_ratio="0.6667" stack_tayout="wertical"	b/ mc keyoino \$Moo-shi+t-\$key Move_index \$1 6d dome 59 Nhc keybind \$Mod-w chain : add web : use web : spawn FireFox :	SS alias de="de -n" SS alias du="du -h" S6 alias grep="grepcolor=auto"	3 set nucesparate ackspacesnment,eei,start nistory=5u newsp woul 9 set ruler showcad incsearch lbr expandiab tabstop=8 shiftwidth=2 5 set nu cursorline wildmenu wildmode=list:tongest,full	37 Unswitz He shi Ho Main SpecyStell" 34 Fi 39 esac	<pre>xkb_rysbal/ "amp" { include "Wr(baric)" aparticlement = 407 Transcription Charactery"; aparticlement = 407 Transcription Charactery"; </pre>
3	stack_frame=1	70 H keybind \$Mod-w use web : Keybind \$Mod-Shift-w wove web 71 72 H lawnubing	57 alias F='Find -L -name' 54 alias who'while" 55 alias who''while"	<pre>6 let g:SuperTabDefaultCompletionType = "context" 7 syntax on 4 Silena alumin indent on </pre>	HD } H1 W2 H ups "Gind" in met ibs antics contacts of #WARC recursiu	key.type(proupl):"TOUS_EFFE."; // wadgeg
	hc() { herbstclient \$3;}; hcc() { hc chain \$3;}; chn() { cmds="\$cmds , \$	73 hc keybind \$Mod-r remove , keybind \$Mod-space cycle_layout 1 74 hc keybind \$Mod-u split vertical 0.5	60 alias whte's wount'	set gfn=Ubuntu, Mono, 10 go=	<pre>43 search() { 44 44 44 44 44 44 44 44 44 44 44 44 44</pre>	key (HEG) (t jeve, architide, dod grave, dod harn 1); key (HEG) (t jeve, architide, dod grave, dod harn 1); key (HEG) (t j, vician, exclandown, 1); key (HEG) (t j, j, t, tradepart, tradepart, 1);
	<pre>facture() = APA some vars meet to be set more than once. dump=(\$(hc dump)) H put the content of hc dump into an array H values based directly on the dump</pre>	76 H split wore precisely 77 For in (1.9), do	be alias that thus attach -or hopens a sindow with the last thus set 63 alias w3g="w3m -cookie google.com" 64 alias png="wim google.com"	11 prins("gut_running") colorscheme molokal 12 else colorscheme cierm 13 endif	Hs A really long subshell supplies the File list and hides H6 A Files. In \$HIRE, hide hidden files by default unless 47 A selects "unhide."	key (HEB3) E 3, numberign, sterling, 3 12; key (HEB3) E 9, dollar, cont, 4 101332// (iligature key (HEB3) E 5, percent, infinity, 47602321// (iligature)
1 4	Ratio=\${dump[1]#*.} H make the division of primary frame an int Orientation=\${dump[1]?::*} H frames split horizontal or vertical Framesformed[1]#*:> H frame with active rolent	76 hc Keybind \$Rod-Alt-\$i split horizontal 0.\$i 79 hc Keybind \$Rod-Control-\$i split vertical 0.\$i 70 dome	65 alias alsi"alsi -a" 66 alias Ma"transmission-daemon" 67 alias ba"transmission-remote -a"	14 " autocnd stuff 15 augroup vincEx 1 16 aut	14 REAU-5(IFS=" 19 50 if EF 5(PHD)/domest//domest = /boxe 33.then	key (#E07) [7, ampérand, parajraph, doubledagari); key (#E08) [d arterik, enfilediricullet, degree] ; key (#E08) [7, parentef, enfilediriente, institutionaria
	EmptyD=5(dump[3]:=1) H empty frames =')', same for following 2 vars Emptyl=5(dump[5[Hdump[3]]-1]HH::}Emptyl=5(Emptyl:1:1)	dl hc keybind \$Mod-space cycle_layout 1 d2 hc keybind \$Mod-space cycle_layout -1	64 alias tl="transmission-remote -1" 69 alias hc="herbstclient"	17 autocmd buffktad /tmp/pentadacty%.txt 1 18 Source /home/ninjaaron/.vim/pentadacty].vim	51 52 if [[\$show = hidden]]; then	key (AEII) i minus under /core, endarh puskinus } } key (AEII) i equal plus, nalequal pluskinus } }
	Instantis(dumpiim:)(impointis(impointis)) H use absolute values from dump to determine values relative to stack/I if [[\$stack_frame = "d" II "split_direction" != "\$drientation"]]	da no keyolno snoo-s Flailng toggle d4 ho keybind snoo-f fullscreen toggle d5 ho keybind snoo-p pseudotile toggle	TO alias dk="diatheke" NET -k" Ti alias dk="diatheke -b NET -k" T2 alias dh="diatheke -b DSMHB -k"	<pre>14 autocwo burkead replace_epitk source /nome/minjaaron/.wim/peni 20 autocwo burkeadPost # 21 \if line("\"") > 1 Sk line("\"") <= line("\$") exe " </pre>	53 Pind -L .1 54 sed "//4/d i /Ubuntu dne/{ Hi di }i \$ { Pi Hi }" 55 echo "hide"	kong (Hool) (UNI) (UZ211 double lawque temperis) // summation (capital signal (ADD3) (C) , C, dead_acute, schwa 3 2;
1 4	then [\${Ratio:0:1} -ge 5] 60 stack=1 stack=0 else stack="\${stack_frame:-1}"	d6 he scontract 87 34 - K come kaubiodione like to chonne on different books	73 alias mpp="mplayer -playlist" 74 alias nh="sudo nethogs ethl" 75	<pre>22 autocsd vimenter * if !argc() MEROTree endif 23 autocsd bufenter * if (winnr("\$") == 1 5% exists("b:MEROTreeTyp) 24 autocsd bufenter * if (winnr("\$") == 1 5% exists("b:MEROTreeTyp)</pre>	56 else 57 Find -L. I 54 end -2017 de . Automotid . Actid . Albumbu dem 27 H.	key (ADD4) { } r, E, registered, U2D30 } ; // permilte key (ADD5) { } t ; t, T, Key (ADD5) { } i / t with line below key (ADD5) { } t ; t, T, with line below key (ADD5) { } t ; t, H dead diamonic i diamonic ; t, t
	[SFrame = "O"] 00 emptyInact=SEmpty1 emptyInact=SEmpty0 if [[SOrientation = "horizontal" 00 Sstack = "1"]], then	49 herbstellent -11 90 while read line.do	76 gap() { herbstclient emit_hook "gap \$37;} 77	25 " maps and commands and so forth	59 echo "unhide" 50 Fi	kong (HDDA) C I I I doad_Circumiton, UD2CC I B // circumitox kong (HDD3) C B D Da/h Kong (HDD3) C B D D Lamor I I U2207 I J // product (capital Pi
	<pre>stackor: Asteroru; Emproylack="Startgl"; Emproylacter="startgl" elif [[strientation = "vertical" & stack = "1"]]; then stackord; Asteroru; emptyStack="Startgl"; emptyMaster="Startg0"</pre>	91 Case sine in 92 H remove the gap 93 nogap).herbstclient_chain : set frame_gap -1 : \	79 psg() { ps auxigrep "\$2"igrep -v grep; }	er Mapolear i Mapolear: 24 command Va Voomtoggle asciidoc 29 noremap (C-W) (MERDTreeToggle <ccr)< th=""><th>62 else 63find .ised "/~\$/d"</th><th><pre>key (8011) { [bracketteft, braceleft, UD207, rightdoublequetemark] }; // left half-ring (dyin) key (8012) { [thracketright, braceright, UD202, rightringtemustemark] }; // right half-ring (dus)</pre></th></ccr)<>	62 else 63find .ised "/~\$/d"	<pre>key (8011) { [bracketteft, braceleft, UD207, rightdoublequetemark] }; // left half-ring (dyin) key (8012) { [thracketright, braceright, UD202, rightringtemustemark] }; // right half-ring (dus)</pre>
5	elif E[dorientation = "horizontal" && dstack = "0"]]; then stackD=1; masterD=r; maptyStack="SEmptyD"; maptyBaster="SEmptyD" elif E dorientation = "wertical" && dstack = "0"]]; then	Set window_gap \${window_gap=-1} : keybind \$Rod=0 emit_hook " Set Frame_border_width \${Frame_border_width=1} :\ gad 0 tead of an	d1 =() { d2 = [[-n \$0]] & [[-e \$0]] & owner=\$(\s -\ \$0]cut -d' ' -f3) & d1 = [[\$0wner 's \$0466]] [[\$(\$(PM0/\$)/0467)]] \$F00]] \$6	30 command Diffdrig vert new set bt=nofile r ++edit H Od_ di 31	54 Fi) 55 55 selat(echo "terno"ithECNU -e "search tPND:")	key (ACD1) { t a, A, aring, United triant J;
	stackD=u; masterD=d; emptyStack="\$EmptyD"; emptyMaster="\$Empty1" Fi	97 pad 1 Spad 1 98 H add the gap	d4 Recho -n "sudo [V/n]?" GC read sudo GC [[\${sudo:-9} = y]] GC as sudo \$EDITOR -c "syntax off" \$D \$EDITOR \$D	33 " syntax toggling 34 Function! ToggleSyntax()	67 case ssel in	key (ACD3) 5 6 6 7 dead_bolandi, dead_hook 3 2; key (ACD3) 5 6 7 dead_bolandi, dead_hook 3 2; key (ACD3) 5 6 9 6 0 ULC23, ULC23, ULC23 3 2;
1 61 1 61	act=\$stack0 && imact=\$stack0; } [] { act=\$stack0 && imact=\$stack0; } [] }; set_vars 0 do all that stuff I just said	99 gaps (sine(gap //sraon(gap)) 60 for ((i=0; i < \$[aPad[51]; i+1));do 10 aPad[51]=\$((\$(aPad[\$1]; \$ \$gap - 1))	an } a7 då ∺ 'cd' gets you where you're going!	35 al chisto("gisyntax_por") syntax pr 36 alse syntax enable endif 37 endfunction	70 hide) 71 show=normal	kny (ACD) C C 3 UIESS k 3 UIESS k 3 1
1 6 1 6	HAN Functions called by the luser [] auto() { HAN swap out of the current frame into the other. []	02 dome 03 herbstclient chain : \ 04 set Frame map "-Smap" :\	49 cd() { 90 E -z "\$1"] 66 builtin cd → builtin cd "\$1" ≥> /dev/null 91 builtin cd →/"\$1" ≥> /dev/null {	30 "hebrew mode toggle 39 Function! ToggleHebrew() 40 if Strightleft == 0 set rightleft Kewmap=hebrew	72 starch () 73 unhide) 74 show=hidden	kog (ACIO) f remicalan, colan, and there is a second secon
16	if [-n "SEmptyall"], then H Emptyall is null if 1 Frame with clientsil chm shift -s Singet H move client to inact Frame.	05 set window gap ggap : set Frame_border_width 0 :\ 06 pad 0 \${aPad[3]}:	92 EE \$PMD != '/']] 60 93 Found=(\$(Find -L , -type d -name "\$1" 8> /dev/null)) [] [94 Found=(\$(Find -L , -type d -name "\$1" 8> /dev/null)) []	41 else / set norightleft keywap= / endif 42 endfunction 23 sende biologne Sec incert and porcel and too be	75 starch () 76 *) 22 brown 1957	ken (dedi) (t) (Ultra dougle genek)) ken (dedi) (t) (Constant)) ken (dedi) (t) (Constant))
	chn cycle -1, shift -e Sact , focus -e Sinact , cycle 1 else H one Frame? split it. move client to new Frame, set stack layout1	00 ksybind Shod-0 emit_hook mogap 09 expand) herbstclient Sexpand	95 if [-n "\$found"], then 96 cdlist	44 Function: Dualband(key.command) 45 exe "morewap <leader>".a:key a:command</leader>	78 Esac	key (ABGUS) t b, b, UICO7, idollor/ 15; key (ABGUS) t n, n, n, ntido, drau[iido 15; key (ABGUS) t n, n, n, http://torgustbr//sci. key (ABGUS) t conna, lorr, drau nacron, lorrhangusi 13;
	Inc split split_direction split_ratio, set_vars ["split_direction" = "horizontal"]&Achin shift = r chn shift = 1 chn focus = dstack0, set_layout sstack_layout	ll esac l esac	94 Found=(\$(Find -Ltype d -name "\$1")) 99 cdlist	He exe "indremap (Leader>".a:key ""d".a:command H? endfunction H "keymaps	du dl H browse files one directory at a time, the only way out d2 H into browse(). However, when \$sel is a file, browse() h	key (ABAY) C C period, groater, drag preve, groaterthampigal); key (ABAD) C C slach, question, division, questiondown)); key (SPCE) C C space, space, nebreakspace, mebreakspace));
	E \$stack = 0] %% chn Focus -e \$master0 Fi, hoc "\$cmds"	13 14 H switch to different layouts directly 15 hc krubind thed-Olt-y ort layout vertical	100 Fi 101 }	49 let mapleader="" 50 " settangs 51 nonerman (silent) (trader)sy (call TopoleSyntax()//P)	43 H off to open(). This is a result of how the program orig 44 H I've thought about changing to go directly to open() fr 45 H but I seen an time writing this sentres intramed.	include "lovel3(rult_rultch)"
7	Stack_spawn() { HHH spawn applications in the stack. ["SEmptyAll" = ")"] && \$0 H just spawn if no other clients exist.]	16 hc keybind \$Mod-Alt-h setlayout horizontal 17 hc keybind \$Mod-Alt-m setlayout max	103 } 104	5P call Dualbind('i', 'scall ToggleHebrew()(cr>') 53 call Dualbind('r', 'wygg)'v')	d6 browse() { while [-d "\$sel"], do	
	IF [-2 "stmptyAll"]; then \$2, auto; else hc Pocus -e \$stack0; \$2, 1] haster_spawn() { HHH spawn applications in the master.	ile ne keyolmo snod-hiteg setjayout grid 19 H "Haster Window" type stoff 20 he keybind shod-semicolon spawn Sconf/swap auto	105 201351() [106 if [\${Hfound} -gt 1];then 107 for (i=1, 1 <= \${Hfound[3]}; i++));do	<pre>by tet settings = [['fa', 'faldwethod=indent'], ['tw', 'tw=72'], ['w' 55 For [key, setting] in settings 56 ext "call builsind(''.key,'', ';set" setting."(cr>')" endfor</pre>	00 c0 (ssel" 09 sel=\$(ls -al\$DRENU -p "\$PWD:") 90 [[\$sel = ,]] % break	L LIII 5.6%] Tasks: 66, 45 thr, 1 running 2 [] 2.6%] Load average: 0.09 011 0.16 3 [] 2.0%] Uptimer 10.4% ros
d	i if ["\$EmptyAll" = ")"] then \$0 ill unversall the clients in master out and then space []	21 hc keybind \$Mod-slash spawn \$conf/swap close 22 23 H cresizing	108 Echo "\$(i). \$(found[\$i])" 109 dane 110 dane	57 " saving and quitting 56 For key in ["w", "q", "s"] 59 est "call mailling("s" key "f", "s" key "s(B)()" and(ar	91 done	4 [1] 2.6/3 Res[1111111111111111 622/390286] 0/1628861
1 d 1 d	E -z "GEMPtyMl1"] 66 auto while E "SemptyMaster" != ')]; do	24 RESIZESTEF=0.01 25 hc keybind \$Mod-Control-h resize left +\$RESIZESTEP	111 read set 112 builtin cd "\${found[\$set]}"	60 " Filetypes 51 For E key, ft] in EFra", "asciidac"], Efr", "python"], Efr", "shi	94 ".") 95 search ;;	Playlist (8 items, length: 35 minutes, 25 seconds) Volume: 35%
1 d 1 d 1 9	done,"\$2" fi	le ne keybind shad-control-j resize down +SRESIZESTEP 127 hc keybind shad-control-k resize up +SRESIZESTEP 28 hc keybind shad-control-l resize right +SRESIZESTEP	114 builtin cd "\$found" 115 fi	<pre>construction construction of the second con</pre>	97 exit D 98 *3	Time Artist Title/Filename Album LCJ-
9	Close() { HHH close client. Fill master if empty. remove stack if empty. he closeset wars	29 H Mouse 30 H Mouse 31 hc Mousewnbindall	116) 117 I 114 H resets the size of the framebuffer for the tty	65 exe "call Gualbind("".key."", "G".key."")" endFor 66 " get ya sone output From shell commands 67 nonerae (Leadersh : 158 <cb) th="" ="" <=""><th>99 open& 100 esje 101 t</th><th>4:36 LARISTA PERTI Penguin Lovestrong [Oeluxe Edition] Plaging: Christina Perri "Lovestrong [Oeluxe Edition]" (2011) - Penguin F0:30/4:361</th></cb)>	99 open& 100 esje 101 t	4:36 LARISTA PERTI Penguin Lovestrong [Oeluxe Edition] Plaging: Christina Perri "Lovestrong [Oeluxe Edition]" (2011) - Penguin F0:30/4:361
9	[\$emptyMaster = ')'] S‰ hcc , Focus -e \$stackD , shift -e \$masterD‱1 [\$emptyStack = ')'] S‰ hcc , Focus -e \$stackD , remove	132 hc wousebind Smod-Button1 wove 133 hc wousebind Smod-Button2 zoom 24 hc mousebind Smod-Button2 zoom	119 Fbg() { 120 [-z "\$37"] & Fbset -g 1600 900 1600 900 32 Fbset -g "\$37" "\$	bid vnoremap <leader>sh dwo<esc>p:.tsh<er>0d\$*vPjdd*v 1 big nnoremap (Leader>py :.tpython<er> 0 vnoremap (Leader>py :.tpython<er></er></er></er></esc></leader>	102 103 H the search() is the default behavior, but I also have t	+ 05: Arch Linux xd6_6N H Hostname: folio
1 1	\$D;exit H do something and exit	135 136 H Focus	122 123 H opens a twox session with an optional command	11 "pasting 12 ynoreaap (Leader)c "ty	105 if [[\$0 = thrus]]; 105 if [[\$0 = thrus]]; 106 then sel="\$PWO" 60 browse	HHN Uptime: 10:44, 19 sec HHNNH Kernel: 37, 9-1-ARCN
		ar ne keybind shdd-backspace cycle_nonior 38 he keybind shdd-Tab cycle_all +1 39 he keybind shdd-shift-Tab cycle_all -1	iles (ALL 1 (AUX ATA-session "\$2" 1) 125 HU looks up a word using the local dictionaries	<pre>is indicease s(caberow "0"+P // 74 call bualbind("P', ""#p") 75 indicease (keaderop "0p</pre>	107 File Statem 108 Fi 109	, Hiddel, Packages, 677 •HI.HHERH Mindow Manager: HerbsltuftWM
		40 hc keybind \$Aod-c cycle 41 hc keybind \$Aod-h facus left 47 hc keybind \$Aod-h facus left	127 HOL() { dict "\$*" vimpager, clear ;} 128 HB looks up a word using remote dictionaries 129 Hol() { dict - h dict.org "#*" vimpager, clear; }	76 delfunction Gualbind	llo exit	•############# ############# ##########
		43 hc keybind (Mad-k facus up 194 hc keybind (Mad-) facus right				ининин ининини RAR: 624 Ab / 3902 Ab (15%) .нининин
		16 hc keybind \$Mod-Shift-h shift left 19 hc keybind \$Mod-Shift-h shift left 19 hc keybind \$Mod-Shift-j shift down				HHERHHHERE, "HUHERHHEN" Root: 6.36//116(65%)(ext4) HERENHY "HHEREN
		44 hc keybind \$Mod-Shift-K shift we 49 hc keybind \$Mod-Shift-1 shift right				





Collaborators



Ice Pasupat



Robin Jia



Michael Jordan



Dan Klein

Code, data, experiments



worksheets.codalab.org

Funding

Google

Microsoft

DARPA

Collaborators



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Thank you!