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<pre>#!/usr/bin/perl -w # # ===== SOURCECODE FOR liisabotti IRC BOT ===== # # [Copyright of this artwork is owner by Toni Willberg] # This file and it's contents is owned by Toni Willberg, toniw@iki.fi. # This program is not open source, which means it's not yours, it's mine. # I just wanted to give you an opportunity to see how this bot is made. # You may learn, take ideas or routines from it, but you MAY NOT CLAIM # THIS PROGRAM AS YOUR and also you HAVE TO give credits to me if you # use something from this source. # # You don't have to pay anything to view this source. Atleast for now. :) # # Toni Willberg, toniw@iki.fi, http://www.iki.fi/toniw/ # Espoo, Finland, 2001-06-16 # # =====</pre> <pre>\$ =1; use strict; use Net::IRC; use DB_File; use Fcntl; use Term::ANSIColor; # comes with perl 5.6.0 # # ===== CONFIG ===== # my %config; \$config{debug} = 0; # print lot's of debug to STDOUT \$config{realnamecheck} = 0; # check sanity of joiners realname when he joins a channel \$config{talkdelay} = 7; # how slow to write (seconds) \$config{sleepnow} = 1; # sleep at beginning; wait before someone else talks \$config{idlelimit} = 360; # after this many seconds bot changes # channel if it's too empty \$config{peoplelimit} = 1; # bot may leave channel if there are under n active # people left \$config{autoautomonologue} = 50; # how often bot should talk by itself # 0-1000, 0 = off, 999 = very often \$config{onleaveflamefreq} = 300; # sometimes say something funny # about person who just left</pre>		

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<pre>\$config{ontopicflamefreq} = 300; # sometimes say something funny # about topic that was just changed \$config{autojoinfreq} = 2; # how often bot should join randomly to # known channel # 0-1000, 0 = off, 999 = very often \$config{joinoninvite} = 1; # join if someone invited \$config{autodialog} = 8; # how often bot should start a dialog with # someone # 0-1000, 0 = off \$config{nokeyreply} = 100; # how often bot should take part to # conversation without known keyword \$config{autotopic} = 1; # how often bot should change topic \$config{autoinvite} = 6; # how often bot should invite people randomly # # COLOR configurations \$config{color_time} = 'green'; \$config{color_normal} = 'white'; \$config{color_channelname} = 'blue'; \$config{color_nickhighlight} = 'yellow'; # # defaults for flood protection # \$config{floodafter} = 6; # This lets you specify the number of flooding # messages you will see before on_flood is activated. \$config{floodrate} = 6; # floodrate can be set to the number of # messages per second you wish to activate # flooding. If messages from a user outpace # floodrate for floodafter number of messages, # on_flood is activated. If floodrate is # larger then floodafter, then you # will end up seeing at least floodrate messages before # activation (If floodrate is 5 and floodafter is 3 then # receive at least 5 messages before the on_flood rate c # an be 5 # messages per second). \$config{floodrepeat} = 3; # How many equal lines may occur on channel before # on_flood is activated. # # which servers to use my @servers = ('irc stealth.net', 'irc.kolumbus.fi', 'irc.kolumbus.fi', 'irc.cs.hut.fi',</pre>		

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'irc.eunet.fi',
'irc.funet.fi',
'irc.sgic.fi'
);

# which nicks to use (if specified is not available)
my @nicks = (
    'liisa',
    'alisa',
    'lissukka',
    'elisa',
    'elisa'
);

# who can command us
my @masters = (
    [REDACTED],
    'nick1!^username1@hostname',
    'nick2!^username2@hostname',
    [REDACTED]
);

my @dontmsg = (
    [REDACTED],
    'friend1', 'friend2',
    [REDACTED]
);

#
# =====
#
#####



# Last check in      : $Date: 2001/06/19 18:56:42 $
# Revision number   : $Revision: 2.17 $
# State              : $State: Exp $

# $Log: liisabotti,v $
# Revision 2.17 2001/06/19 18:56:42 twillber
# Now saying something after joined to some channel on invite.
#
# Revision 2.16 2001/06/18 23:08:43 twillber
# Changed phrases -> arrays
#
# Revision 2.15 2001/06/18 22:52:25 twillber
# Moved all tie -routines to 4 functions. Removed about 200 lines of code :D
#
# Revision 2.14 2001/06/17 22:32:24 twillber
# Now saying funny things about people who just got kicked out from channel.
#
# Revision 2.13 2001/06/17 19:24:39 twillber
# Fixed filehandle handling code. Now a bit more secure.
#
# Revision 2.12 2001/06/17 18:49:20 twillber
# Now flaming person who just left channel/irc.
#

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# Revision 2.11 2001/06/17 18:13:24 twillber
# Fixed leaveChannel -debugging.
#
# Revision 2.10 2001/06/17 18:01:02 twillber
# Added some kind of support for CTCP ACTION.
#
# Revision 2.9 2001/06/15 21:32:56 twillber
# Added copyright notice before publishing the source.
#
# Revision 2.8 2001/06/13 19:55:11 twillber
# Changed logfile name.
#
# Revision 2.7 2001/06/13 19:18:09 twillber
# - Moved console log from STDOUT to different file.
# - Fixed /invite -code.
#
# Revision 2.6 2001/06/06 22:06:56 twillber
# added untie for phrases_questions ;)
#
# Revision 2.5 2001/06/06 21:36:21 twillber
# added new phrasetype: phrases_channels
#
# Revision 2.4 2001/06/06 20:54:25 twillber
# Fixed autojoinfreq.
# Now does WHOIS when someone joins.
# Stores all channels of nicks we whoised.
# etc...
#
# Revision 2.3 2001/06/06 19:32:47 twillber
# Fixed on_quit -bug. Now recognizes all quits.
#
# Revision 2.2 2001/06/05 18:37:48 twillber
# New version.
#
# Revision 2.1 2001/06/05 18:35:37 twillber
# Initial revision
#
# Revision 1.55 2001/03/12 18:35:26 twillber
# Minor config
#
# Revision 1.54 2001/03/11 15:25:18 twillber
# Minor config.
#
# Revision 1.53 2001/03/11 00:40:05 twillber
# Removed all STDOUT -prints and replaced with &log();
#
# Revision 1.52 2001/03/10 23:12:45 twillber
# Now using configs more wisely.
# Added colors to console log.
#
# Revision 1.51 2001/01/23 23:59:56 twillber
# added conf -command
# fixed places
#
# Revision 1.49 2000/11/04 09:07:08 twillber
# Changed way of changing topic randomly
#
# Revision 1.48 2000/10/31 19:50:21 twillber
# Added option "autojoin"
#
# Revision 1.47 2000/09/10 16:55:33 twillber
# Added couple of new phrases
#
# Revision 1.46 2000/09/10 16:12:48 twillber
# Someone(tm) forgot to commit last changes...
#
# Revision 1.45 2000/08/03 21:39:06 twillber
# Fixed "minor" problems with some stupid things...

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<pre># Revision 1.44 2000/07/30 16:36:53 twillber # Added watch. # # Revision 1.43 2000/07/30 15:59:53 twillber # Added jokes. # # Revision 1.42 2000/05/24 21:12:38 twillber # Fixed bugs. # # Added unban etc... # # Revision 1.41 2000/05/20 22:52:57 twillber # Fixed some things. # Checks if the bot is an op before even trying to do a op's job. # etc... # # Revision 1.40 2000/05/18 22:59:49 twillber # Understands adjectives and numbers. # # Revision 1.39 2000/05/18 21:49:43 twillber # Fixed dead pidfiles. # Added automatic nick change on nick reserved -case. # Added REBOOT -command. # # Revision 1.38 2000/05/16 21:02:14 twillber # Added pid-file, # improved some functions etc. # # Revision 1.37 2000/05/13 01:48:15 twillber # Major changes. # More intelligent joining and leaving. # Handles mode changes correctly. # etc... # # Revision 1.36 2000/05/12 21:58:45 twillber # some changes # # Revision 1.35 2000/05/07 20:22:37 twillber # Learns more phrases. # Fixed filehandling. # etc... # # Revision 1.34 2000/05/07 16:28:38 twillber # Fixed bug in nicklist and channellist handling. # # Revision 1.33 2000/05/07 15:19:37 twillber # On_quit -event works now. # Minor fixes. # # Revision 1.32 2000/05/05 17:45:53 twillber # Fixed flood and ops-kick # # Revision 1.31 2000/05/03 18:32:43 twillber # Random joining works again. # # Revision 1.30 2000/05/02 22:39:51 twillber # Fixed several routines. # Now randomChannel, randomNick etc. work # # Revision 1.29 2000/04/30 22:59:21 twillber # Improved timer. Now allows multiple timers simultaneously without blocking. # # Revision 1.28 2000/04/19 23:18:43 twillber # Improved flood and garbage inspection # # Revision 1.27 2000/04/05 08:47:06 twillber # Bugfixes for last night ;) # # Revision 1.26 2000/04/05 00:59:34 twillber</pre>		

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<pre># MAJOR rearranging of code; # - changed way of logging # - supports multiple simultaneous channels # - disabled some features (auto-join-on-bored) for now # - bugfixes # # Revision 1.25 2000/04/04 19:26:36 twillber # Advanced parser a bit # # Revision 1.24 2000/04/04 17:57:16 twillber # Better floodprotector # # Revision 1.23 2000/04/03 22:09:53 twillber # Disabled Away for now.... # Disable auto-messaging # # Revision 1.22 2000/04/03 21:39:08 twillber # Automatically sets Away messages. # Better question handling. # # Revision 1.21 2000/04/03 19:12:51 twillber # now changes topics... # # Revision 1.20 2000/04/02 14:57:04 twillber # Bugfix to previous. # Changed frequency of random messages. # # Revision 1.19 2000/04/02 14:50:25 twillber # Now learns all questions and curses... # # Revision 1.18 2000/04/01 21:02:38 twillber # Added more phrases and repetition detection. # # Revision 1.17 2000/03/31 16:21:38 twillber # Added some handlers for errors. # # Revision 1.16 2000/03/31 11:07:58 twillber # minor bugfixes # # Revision 1.15 2000/03/30 19:43:25 twillber # Separated log files for messages and channels. # Using same log file per channel/user per day. # # Revision 1.14 2000/03/26 22:52:24 twillber # Automatically messages people... # # Revision 1.13 2000/03/22 15:34:15 twillber # DONTGOCHANNEL -list # # Revision 1.12 2000/03/21 07:04:21 twillber # Now gathers names on channel only when joining and when someone joins. # # Revision 1.11 2000/03/21 06:39:43 twillber # Minor fixes. # # Revision 1.10 2000/03/20 19:24:12 twillber # Added leave-commands etc. # # Revision 1.9 2000/03/20 17:03:12 twillber # Fixed bugs. ;) # # Revision 1.8 2000/03/19 22:00:22 twillber # Works ok. # # Revision 1.7 2000/03/19 19:50:22 twillber # Better behaviour, does not talk so much if not talked to. # # Revision 1.6 2000/03/19 19:08:24 twillber # Changed lot's of things.</pre>		

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<pre> # # Revision 1.5 2000/03/19 17:00:01 twillber # Now handles private conversations. # # Revision 1.4 2000/03/19 15:56:49 twillber # Works nice at this point. # Moves around channels if bored or kicked. # # Revision 1.3 2000/03/19 02:03:29 twillber # Lots of changes ; # # Revision 1.2 2000/03/18 20:58:44 twillber # - # # Revision 1.1 2000/03/18 19:27:15 twillber # Initial revision # ##### # # OPEN CONSOLE LOG my (\$sec,\$min,\$hour,\$dd, \$mm, \$yyyy) = localtime(time()); \$mm++; \$yyyy += 1900; \$mm = "0\$mm" if (\$mm < 10); \$dd = "0\$dd" if (\$mm < 10); my \$consolelogfile = "logs/console/current.log"; open (CONSOLELOG, ">\$consolelogfile") die ("*** Cannot open consolelog '\$consolelogfile'. Quitting.\n\n"); select CONSOLELOG; \$ = 1; # unbuffer print CONSOLELOG "#pid \$\$ started...\n"; # ## # on signal, quit (1) use sigtrap 'handler', '\&quitter', 'normal-signals'; # check out pid file # this is used as a pid file my \$pidfile = "liisabotti.pid"; if (-e \$pidfile) { my \$opid; &log("Pid-file found. Checking content... "); open (PF, "\$pidfile") die ("Can't open PIDFILE \$pidfile: \$!\n"); \$opid = <PF>; if (\$opid ne \$\$) { &log("PID found from pid-file does not match, checking if pid \$opid is running... "); my @pidlist = `ps \$opid`; if (\$pidlist[1]) { &log("The bot is running with pid \$opid. We will not start."); exit; } } else { &log("Process \$opid has died. Removing file and starting new bot."); open (PF, ">\$pidfile") die ("Can't open PIDFILE \$pidfile: \$!\n"); } } </pre>	<pre> Jun 19, 01 21:56 liisabotti Page 8/58 print PF " \$\$"; close PF; } else { &log ("Pid matched, the bot is dead, overwriting"); open (PF, ">\$pidfile") die ("Can't open PIDFILE \$pidfile: \$!\n"); print PF " \$\$"; close PF; } else { &log ("Pid-file not found. Creating new..."); open (PF, ">\$pidfile") die ("Can't open PIDFILE \$pidfile: \$!\n"); print PF " \$\$"; close PF; } my \$irc; # global object for irc sockets etc. my \$KEEPRUNNING; ##### # my \$channelwonder = 0; # pointer to a channel bot should join next my \$nicklistsize = 10; # how many nicks to remember my \$publicbuffersize = 8; # How many lines per channel bot must keep in # buffer. This effects also to flood protection, # so try to keep this at least over 10. my %msghash; my %inmsghash; my %publicbuffer; my \$time_msg = time(); my \$time_start = time(); # when the bot was started my \$lastmsg = time(); my \$botlastmsg = (); # bot's last line my \$time_say = time(); # last time bot said something my \$lasttalked = time(); # where the phrase files are my \$arrayspath = "arrays/"; # where the word files are my \$wordspath = "words/"; </pre>	

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<pre> # some private information my \$version = 'Liisabotti. http://liisa.on.peelo.com/'; my \$finger = 'Liisabotti. http://liisa.on.peelo.com/'; my \$userinfo = 'Liisabotti. http://liisa.on.peelo.com/'; # take command line args my \$bot_server = \$ARGV[0]; my \$bot_nick = \$ARGV[1]; my \$bot_chan = \$ARGV[2]; my \$bot_realname = \$ARGV[3]; my \$bot_username = \$ARGV[4]; my \$AUTJOIN = \$ARGV[5]; # remove later! \$bot_chan = lc(\$bot_chan); \$bot_nick = lc(\$bot_nick); my \$AUTOTOPICCHANGE = 0; # if bot should change topic of channels randomly my \$conn = ""; # active users on channels that bot is in my %channelnicks = (); # who was last to talk on channel? my %chantalk = (); # where to log my \$PUBLOGPATH = "logs/channels/"; my \$MSGLOGPATH = "logs/messages/"; my \$LOGFILE = ""; my \$time_public = time(); # last time someone said something # the channels that bot is an op my %opchannels = (); # the channels that bot is in my %onchannels = (); # all phrases all stored in this hash my %arrays = (); # tie some files # # TIE all arrays # # LIST of arrayfiles to be tied my @tieablearrays = ('ignores', 'known_channels', 'dontgochannels', 'phrases_answers', 'phrases_onleaves', 'phrases_ontopics', 'phrases_unknown', 'phrases_channels', 'phrases_deny', 'phrases_goodnight', 'phrases_greet', 'phrases_smileys', 'phrases_bored', 'phrases_ignorance', 'phrases_wonders', 'phrases_agrees', 'phrases_myrmusic', 'phrases_whoami', 'phrases_myage', 'phrases_curse', 'phrases_nosex', 'phrases_whatis', 'phrases_quiet', 'phrases_questions', 'phrases_joke', 'phrases_oninvite', 'words_adjectives', 'words_numbers'); # tie all given arrays sub tieAllArrays { foreach my \$cat (@tieablearrays) { &log("Trying to tie array '\$cat'..."); \$arrays{"\$cat"} = []; &tieArray(\$arrays{"\$cat"}, "\$cat"); } } # untie all listed arrays sub untieAllArrays { foreach my \$cat (@tieablearrays) { &log("Trying to untie array '\$cat'..."); \$arrays{"\$cat"} = []; &untieArray(\$arrays{"\$cat"}, "\$cat"); } } # go &tieAllArrays(); # # # my \$lastline = "";</pre>	liisabotti	Page 10/58

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```

my @nicklist; # nicks at channel
my %stats = ();

#
#
#
#
# write to consolelog
# %STATUS: OK
sub log {
    my ($msg) = @_;
    my ($sec, $min, $hour, $day, $month, $year) = &getTime( localtime(time()) );
    my $color_time = color($config{color_time});
    my $color_normal = color($config{color_normal});
    my $color_channelname = color($config{color_channelname});
    my $color_nickhighlight = color($config{color_nickhighlight});

    # my $clog = ($color_time."[$hour:$min:$sec]".$color_channelname ." (CONSOLE) ".
    # $color_normal."$msg");
    my $clog = "[${hour}:${min}:${sec}] ${CONSOLE} $msg";
    print CONSOLELOG "$clog\n";
}

#
# write something to log file
# %STATUS: OK
sub logChannel {
    my ($channel, $msg) = @_;
    if (!$channel || !$msg) {
        &log("!!! Not enough parameters for &logChannel ($channel, $msg)");
        return;
    }

    # this is necessary for using scalar as filehandle!!!
    no strict "refs";

    $channel =~ s/^\#/!/g; # remove # from channel
    $channel =~ s/^\//g; # remove / from channel
    $channel = lc($channel);

    my ($sec, $min, $hour, $day, $month, $year) = &getTime( localtime(time()) );
    my $color_time = color($config{color_time});
    my $color_normal = color($config{color_normal});
    my $color_channelname = color($config{color_channelname});
    my $color_nickhighlight = color($config{color_nickhighlight});

    # file log
    # my $flog = ($color_time."[$hour:$min:$sec]".$color_channelname ." (#$channel)
}

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```

"$.color_normal."$msg");
# no color
my $flog = ("[$hour:$min:$sec] . "#$channel} ." ".$msg") ;

# hilight nick
if ($msg =~ /$bot_nick/i) {
    $msg = $color_nickhighlight.$msg.$color_normal;
}

# console log
my $clog = ($color_time."[$hour:$min:$sec]".$color_channelname ." (#$channel} ".$color_normal."$msg");

# print on monitor
# print CONSOLELOG "$clog\n";
print CONSOLELOG "$flog\n";

# write to channel filehandle
# my $chfh = "logfile-$channel";
my $chfh = &getFileHandle($channel);
print $chfh "$flog\n"
}

#
# append messages from same nick to same logfile
#
sub logMessage {
    my ($nick, $msg) = @_;
    my ($sec, $min, $hour, $day, $month, $year) = &getTime( localtime(time()) );
    my $fnick = lc($nick);
    if ($fnick =~ /^\./) {
        &log("!!! ILLEGAL NICK '$fnick'");
        return;
    }
    my $mgfile = "$fnick.$year\_$_month\_$_day.txt";
    open (MLOG, ">>$MSGLOGPATH/$mgfile") || die ("Can't open MLOG: $mgfile: $!");
    my $ll = "[${hour}:${min}:${sec}] ${nick} $msg\n";
    # print on monitor
    print CONSOLELOG "$ll";
    # write to file
    print MLOG $ll;
    close MLOG || &log("Can't close MLOG: $mgfile: $!");
}

#
# TIE a array
#
sub tieArray {
    my ($ptr, $name) = @_;
    tie @$ptr, "DB_File", "$arrayspath$name", O_RDWR|O_CREAT, 0640, $DB_RECNO || die "Cannot open '$name': $!\n";
    return $ptr;
}

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```

#
# UNTIE a array
#
sub untieArray {
    my ($ptr) = @_;
    untie @$ptr;
}

#
# kick user from channel
#
sub kickUser {
    my ($self, $channel, $nick, $reason) = @_;
    if (!$self || !$channel || !$nick || !$reason) {
        &log("*** ERROR: not enough parameters for &kickUser()");
    }

    if ($opchannels{$channel}) {
        $self->kick("\#$channel", $nick, $reason);
    }
    else {
        &log("* Not an op on $channel! Can't do kick \#$channel $nick: $reason");
    }
}

#
# ignore user
#
sub ignoreUser {
    my ($nick) = @_;
    # push @ignores, $1;
    my $ptr = $arrays{'ignores'};
    push @$ptr, $1;
}

#
# ban user on channel (for $length seconds [optional])
#
sub banUser {
    my ($self, $channel, $nick, $length) = @_;
    if (!$self || !$channel || !$nick) {
        &log("*** ERROR: not enough parameters for &banUser()");
    }

    if ($opchannels{$channel}) {
        $self->mode("\#$channel", "+b", $nick);
    }
    else {
        &log("* Not an op on $channel! Can't do ban \#$channel $nick");
    }

    $length = 60 if (!$length);

    # if length was give, create timer to unban the user
    $self->parent->queue(time + $length,
        sub{
            &unbanUser($self, $channel, $nick);
        }, $self);
}

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```

}

#
# unban user on channel
#
sub unbanUser {
    my ($self, $channel, $nick) = @_;
    if (!$self || !$channel || !$nick) {
        &log("*** ERROR: not enough parameters for &unbanUser()");
    }

    if ($opchannels{$channel}) {
        $self->mode("\#$channel", "-b", $nick);
    }
    else {
        &log("* not an op on $channel! Can't unban $nick");
    }
}

#
# deop user from channel
#
sub deopUser {
    my ($self, $channel, $nick) = @_;
    if (!$self || !$channel || !$nick) {
        &log("*** ERROR: not enough parameters for &deopUser()");
    }

    if ($opchannels{$channel}) {
        $self->mode("\#$channel", "-o", $nick);
    }
    else {
        &log("* not an op on $channel! Can't deop $nick");
    }
}

#
# op user on channel
#
sub opUser {
    my ($self, $channel, $nick) = @_;
    if (!$self || !$channel || !$nick) {
        &log("*** ERROR: not enough parameters for &opUser()");
    }

    if ($opchannels{$channel}) {
        $self->mode("\#$channel", "+o", $nick);
    }
    else {
        &log("* not an op on $channel! Can't op $nick");
    }
}

#
# invite user to channel
#

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```

sub inviteUser {
    my ($self, $channel, $nick) = @_;
    if (!$self || !$channel || !$nick) {
        &log("!!! ERROR: not enough parameters for &inviteUser()");
    }
    if (!$onchannels{$channel}) {
        &log("!!! Duh! I'm not on #$channel. Can't invite anyone there!");
        return;
    }
    &logChannel($channel, "!!! Going to invite $nick to #$channel");
    $self->invite($nick, "#$channel");
}

# add $nick to nicklist of $channel
#
sub addNick {
    my ($channel, $nick) = @_;
    if (!$channel || !$nick) {
        &log("!!! Not enough parameters on &addNick($channel,$nick)");
    }
    $nick = lc($nick);

    if ($nick =~ /bot|away/i) {
        # dont add people who are away or bots
        return;
    }
    my $nbn = lc($bot_nick);
    if ($nick eq $nbn) {
        &log("&addNick: not adding own nick") if ($config{debug} > 3);
        return;
    }
    &log("Adding '$nick' to #$channel list") if ($config{debug} > 3);

    # check that nick is not on the list already
    my $snck;
    foreach $snck (@{$channelnicks{$channel}}) {
        if ($nick eq $snck) {
            # nick was already on list, don't add again
            &log("'$nick was already on $channel nicklist") if ($config{debug} > 3);
            return;
        }
    }
    # add nick to channel list
    $nick = lc($nick);
    push @{$channelnicks{$channel}}, $nick;
    &log("Added '$nick' to #$channel nicklist. Now ". $#{$channelnicks{$channel}} ." people on channel") if ($config{debug});
}

# remove $nick from nicklist of $channel
#
sub removeNick {
}

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```

my ($channel, $nick) = @_;
# we user lower case nicks internally
$nick = lc($nick);
&log("Removing '$nick' from #$channel list") if ($config{debug});

my ($nc, @newchn);
for ($nc=0; $nc <= $#{$channelnicks{$channel}}; $nc++) {
    if (@{$channelnicks{$channel}}[$nc] eq $nick) {
        splice @{$channelnicks{$channel}}, $nc, 1; # remove this nick
        my $pcount = $#{$channelnicks{$channel}};
        &log("Removed '$nick' from '#$channel'. $pcount people still on channel.");
        &log("list is now:@{$channelnicks{$channel}}") if ($config{debug});
    }
    if ($pcount < $config{peoplelimit} && ($channel ne $bot_chan) ) {
        &log("Leaving channel '#$channel' because it has under $config{peoplelimit} people left");
        &leaveChannel($conn, $channel);
    }
    last; # no need to continue
}
}

# return random nick from specified channel
#
sub randomNick {
    my ($channel) = shift;;
    if (!$channel) {
        &log("Not enough parameters for &randomNick($channel)") if ($config{debug});
        return;
    }
    my $max = $#{$channelnicks{$channel}};

    my $nr = int(rand($max+1));
    my $nick = @{$channelnicks{$channel}}[$nr];
    $nick = lc($nick);

    &log("randomnick: '#$channel', nick: '$nick") if ($config{debug});
    &log("list: '@{$channelnicks{$channel}}')") if ($config{debug});
    return $nick;
}

# return random nick from our %onchannels
#
sub randomChannel {
    my $channel = "";
    my ($chc, $count) = 0;
    my $chs = scalar keys %onchannels;
    my $retch = int(rand($chs));
    foreach $channel ( keys %onchannels) {

```

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```

if ($chc == $retch) {
    &log ("randomchannel($retch) = '$channel'") if ($config{debug} > 2);
    return $channel;
}

$chc++;

}

# return last; for some reason we did not get any channel - this is not
# supposed to happen, only on when bot is not on any channel
return $channel;
}

# return random channel from known channels
#
sub randomKnownChannel {
    my $channel;

    my $pptr = $arrays{'known_channels'};
    my $max = $#$pptr;
    my $chnr = int(rand($max)+1);
    $channel = @{$pptr[$chnr]};

    &log ("**** returning randomKnownChannel: $channel") if ($config{debug});

    return $channel;
}

#
# return next known channel
#
sub nextKnownChannel {
    my $channel;

    $channelwonder++; # add pointer

    my $pptr = $arrays{'known_channels'};

    # check if needed to loop over
    if (!@$pptr[$channelwonder]) {
        $channelwonder = 0;
    }

    $channel = @{$pptr[$channelwonder]};

    &log ("nextKnownChannel: $channel") if ($config{debug});

    return $channel;
}

#
# return random phrase from given \@list
#
sub randomPhrase {
    my ($nick, $list) = @_;
    my $max = $$list + 1;
    my ($nr, $msg) = "";
}

```

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```

if (!$list) {
    &log ("NO LIST '$list' &randomPhrase");
    return;
}

$nr = int(rand($max)+1);
$msg = @{$list[$nr]};

if (!$msg || $msg eq '') {
    # this is ok
    return;
}

# local

if ($msg =~ /\%randsomething/) {
    my $nmsg = @phrases_unknown[int(rand($#phrases_unknown)+1)];
    my $pptr = $arrays{'phrases_unknown'};
    my $nmmsg = @{$pptr[int(rand($#$pptr)+1)]};
    $msg =~ s/\%randsomething/$nmmsg/ge;
}

if ($nick) {
    # to $nick
    $msg =~ s/\%nick/$nick/g;
} # if

# convert any leftover stuff...
$msg =~ s/\%nick,\|\%nick:\|\%nick\|\%nick//g; # get rid of %nick: and %nick,

if (!$msg) {
    &log ("INTERNAL ERROR: NULL MESSAGE &randomPhrase");
    return;
}

return $msg; # return the message
}

#
# says phrase from given list
# input: $self, @list
#
sub sayPhrase {
    my ($self, $channel, $nick, $list) = @_;
    my $max = $$list+1;
    my ($nr, $msg) = "";

    if (!$list) {
        &log ("NO LIST '$list' &sayPhrase");
        return;
    }

    # get random message from given list
    $nr = int(rand($max));
    $msg = @{$list[$nr]};

    &log ("MSG($nick): '$msg'") if ($config{debug});

    # null message, dont say it
    if (!$msg || $msg eq '') {
        &log ("*** No message on &sayPhrase()");
        return;
    }
}

```

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```

# convert %randsomething -tag to something
if ($msg =~ '/%randsomething/) {
    my $ptr = $arrays{'known_unknown'};

    my $nmsg = @$ptr[int(rand($#$ptr)+1)];
    $msg =~ s/^\%randsomething/$nmsg/ge;
    &log("/** Replaced %randsomething tag with '$nmsg' at &sayPhrase()");
}

# convert %adjectives
if ($msg =~ '/%\adjective/) {
    my $ptr = $arrays{'words_adjectives'};
    my $nmsg = @$ptr[int(rand($#$ptr)+1)];
    $msg =~ s/^\%\adjective/$nmsg/ge;
    &log("/** Replaced %adjective tag with word '$nmsg' at &sayPhrase()");
}

# convert %number
if ($msg =~ '/%\number/) {
    my $ptr = $arrays{'words_numbers'};
    my $nmsg = @$ptr[int(rand($#$ptr)+1)];
    $msg =~ s/^\%\number/$nmsg/ge;
    &log("/** Replaced %number tag with word '$nmsg' at &sayPhrase()");
}

if ($nick) {
    # to $nick

    # insert %nick in front of message if it is missing for some reason...
    if ($msg !~ /%\nick/g) {
        $msg = "%$nick: $msg";
    }

    $msg =~ s/^\%\nick/$nick/g;

} # if
else {
    # to channel perhaps? :)
    $msg =~ s/^\%\nick,|\%\nick|^\%\nick\ //g; # get rid of %nick: and %nick,
}

if (!$msg) {
    &log("INTERNAL ERROR: NULL MESSAGE &sayPhrase");
    return;
}

&say($self, $channel, $msg); # say it you lame bot ;

}
## 

# say something on channel
#
sub say {
    my ($self, $channel, $msg) = @_;

    $msg = substr($msg, 0, 200); # cut from 200 chars to avoid excess flood :
    $channel = lc($channel);

    if (!$msg) {
        &log("/** NULL MESSAGE &say()");
        return;
    }
}

```

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```

}

if (!$onchannels{$channel}) {
    &log("/** '$channel' - I'm not on that channel!");
    return;
}

# we talked last on this channel
$chtalk{$channel} = $bot_nick;

# check that bot does not repeat
if ($lastline eq $msg) {
    &log("{msg loop '$msg', skipping}") if ($config{debug});
} else {
    $time_say = time();
    $stats{$bot_nick}++;

    # convert random something
    if ($msg =~ '/%\randsomething/gi) {
        $msg =~ s/^\%\randsomething/&randomPhrase(undef, $arrays{'phrases_unknown'})/ge;
    }

    # convert random nicks
    if ($msg =~ '/%\randnick/gi) {
        $msg =~ s/^\%\randnick/&randomNick($channel)/ge;
    }

    # convert random nicks
    if ($msg =~ '/%\randomchannel/gi) {
        my $rchan = &randomKnownChannel();
        $rchan = "#$rchan";
        $msg =~ s/^\%\randomchannel/$rchan/ge;
    }

    # convert adjectives
    if ($msg =~ '/%\adjective/gi) {
        $msg =~ s/^\%\adjective/&randomPhrase(undef, $arrays{'words_adjectives'})/ge;
    }

    $msg =~ s/^\%\bot_nick/$bot_nick/g;
    $msg =~ s/^\%\nick|\%\randnick//g;

    $msg =~ s/^\%\ //g;
    $msg =~ s/^\%\ //g;
    $msg =~ s/^\%\ //g;
    $msg =~ s/^\%\ \%\ \%\ \%\ //g;
    $msg =~ s/^\%\ ^\%\ //g;
    $msg =~ s/^\%\ a\//g;
    $msg =~ s/^\%\ a\://g;

    # correct some errors on phrases
    $msg =~ s/^\%\ lla\ /\ ".&randomNick($channel)."\\lla "/ge;
    $msg =~ s/^\%\ lle\ /\ ".&randomNick($channel)."\\lle "/ge;
    $msg =~ s/^\%\ n\ /\ ".&randomNick($channel)."\\n "/ge;
    $msg =~ s/^\%\ a\ /\ ".&randomNick($channel)."\\a "/ge;

    # what exactly is this? :)
    if ( $config{automonologue} && &ifrand($config{automonologue}, 'automonologue') ) {
        $msg = "$msg ".&randomPhrase(undef, $arrays{'phrases_smileys'});
    }

    # this code put's 'sub' code into queue, and it will be executed later
    # by Net::IRC
}

```

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```

$self->parent->queue($time + $config{talkdelay},
    sub{
        $self->privmsg("#$channel", "$msg");
        &logChannel($channel, "[SAY] '$msg'");
        $lasttalked = $bot_nick;
    }, $self);

}

}

# messages phrase from given list
# input: $self, @list
#
sub msgPhrase {
    my ($self, $nick, $list) = @_;
    my $max = $#$list + 1;
    my ($nr, $msg);

    if (!@$list) {
        &log("*** NO LIST &msgPhrase");
        return;
    }

    if (!$nick) {
        &log("*** NO NICK &msgPhrase");
        return;
    }

    # check that bot is not messaging to forbidden ones
    foreach my $signos (@dontmsg) {
        if ($nick eq $signos) {
            &log("*** $nick is dontmsg. I can't talk to him too.");
            return;
        }
    }

    $nr = int(rand($max)+1);
    $msg = @{$list[$nr]};

    if (!$msg) {
        &log("*** NULL MSG!!!!");

        $nr = int(rand($max)+1);
        $msg = @{$list[$nr]};

        if (!$msg) {
            &log("*** STILL NULL MSG!!!!");
            return;
        }
    }

    # local
    $msg =~ s/^\s+|\s+$//g;
    $msg =~ s/^\s+botchan/$bot_chan/g;
    $msg =~ s/^\s+randnick//g;

    $msg =~ s/^\s+ / /g; # remove double spaces
    $msg =~ s/^\s+ / /g; # remove leading spaces
    $msg =~ s/^\s+ / /g;
}

```

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```

$msg =~ s/^,\s+//g;
$msg =~ s/\s+,\s+//g;

# convert random something
if ($msg =~ /\%randsomething/) {
    $msg =~ s/\%randsomething/&randomPhrase(undef, $arrays{'phrases_unknown'})/ge;
}

# convert adjectives
if ($msg =~ /\%adjective/g) {
    $msg =~ s/\%adjective/&randomPhrase($arrays{'words_adjectives'})/ge;
}

$self->parent->queue($time + $config{talkdelay},
    sub{
        $self->privmsg("$nick", "$msg");
        &logMessage($nick, "[MSG] $nick $msg");
    }, $self);

}

# inserts new line to given phrase list
#
sub learnPhrase {
    my ($line, $list) = @_;

    if (!$line) {
        &log("learnPhrase needs a line!");
    }

    $line =~ s/$bot_nick/\%nick/gi;
    $line =~ s/^(.*)\:\:/gi;
    $line =~ s/^(.*)\,\//gi;
    $line =~ s/^\s+//gi;

    &log("\tLEARN: '$line'") if ($config{debug});
    push @$list, $line;
}

# change topic
#
sub changeTopic {
    my ($self, $channel, $topic) = @_;

    if ($opchannels{$channel}) {
        $self->topic("#$channel", $topic);
    } else {
        &log("not an op on $channel! Can't change topic to '$topic'");
    }
}

# remembers all #channels for later use...
#
sub learnChannel {
    my ($line, $list) = @_;
}

```

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```

&log("**** learnChannel($line)") if ($config{debug});

my $newchan = "";

if ($line =~ /\#(.*)/) {
    # if found #channel
    $newchan = $1;

    $newchan =~ /(.*?)\ /;
    $newchan = $1;

    $newchan =~ /(.*?)\:/;
    $newchan = $1;

    $newchan =~ /(.*?)\/-/;
    $newchan = $1;

    # illegal characters in channel
    # tähän vähän tarkistusta!!!
    # if ($newchan =~ /[a-z._]/) {
    #     &log("**** Illegal char in chan name: '$newchan'");
    #     return;
    # }

    # check if channel was forbidden
    my $chn = "";
    foreach $chn (@$arrays{'dontgochannels'}) {
        if ($newchan eq $chn) {
            &log("DONTGOCHANNEL: '$newchan'") if ($config{debug});
            return;
        }
    }

    # check if channel was already in list
    $chn = "";
    foreach $chn (@$list) {
        if ($newchan eq $chn) {
            &log("WAS ALREADY IN LIST: '$newchan'") if ($config{debug});
            return;
        }
    }

    &log("LEARNT NEW CHANNEL: '$newchan'") if ($config{debug});
    push @$list, $newchan;

}

else {
    # can't parse, too bad...
    &log("Can't find channel from string '$line'.");
}

}

# message something to someone
#
sub msg {
    my ($self, $to, $msg) = @_;
    if (!$to) {
        &log("**** NO NICK &msgPhrase");
        return;
    }
}

```

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```

# check that bot is not messaging to forbidden ones
foreach my $signos (@dontmsg) {
    if ($to eq $signos) {
        &log("**** $to is dontmsg. I can't talk to him too.");
        return;
    }
}

# check that bot does not repeat
if ($botlastmsg && $botlastmsg eq $msg) {
    &log("{msg loop, ignoring this line}") if ($config{debug});
}
else {

    $msg =~ s/^\%randnick//ge;

    if ($msg =~ /\%randsomething/) {
        my $ptr = $arrays{'phrases_unknown'};
        my $nmsg = @$ptr[int(rand($#{$ptr})+1)];
        $msg =~ s/\%randsomething/$nmsg/ge;
    }

    # get bot channel
    if ($msg =~ /\%botchan/g) {
        $msg =~ s/\%botchan/\$bot_chan/g;
    }

    # get bot nick
    if ($msg =~ /\%botnick/g) {
        $msg =~ s/\%botnick/\$bot_nick/g;
    }

    # get bot nick
    if ($msg =~ /\%nick/g) {
        $msg =~ s/\%nick/\$to/g;
    }

    $msg =~ s/^\ ,//g;
    $msg =~ s/^,\ //g;
    $msg =~ s/^,\ //g;
    $msg =~ s/^\ ,//g;

    $botlastmsg = $msg; # save last line;

    $self->parent->queue(time + $config{talkdelay},
        sub {
            $self->privmsg("$to", "$msg");
            &logMessage($to, "[MSG > $to] $msg");
        }, $self);
    }

}

# What to do when the bot successfully connects.
sub on_connect {
    my $self = shift;
    &joinChannel($self, $bot_chan);
}

```

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```

# just before quit
sub do_quit {
    my $channel = ();
    foreach $channel (keys %onchannels) {
        $config{talkdelay} = 0;
        &leaveChannel($conn, $channel, 'Hei hei kullannput, mä palaan vielä;');
    }

    # disconnect from server
    $irc->removeconn($conn);
    sleep 10;
}

sub leaveChannel {
    my ($self, $channel, $msg) = @_;

    # this is necessary for using scalar as filehandle!!!
    no strict "refs";

    $channel = lc($channel);
    $channel =~ s/\#\//;

    if (!$self || !$channel) {
        &log("*** ERROR: not enough parameters for &leaveChannel()");
    }

    $msg = "" if (!$msg);

    if (!$onchannels{$channel}) {
        &log("Cannot leave #$channel. I'm not on that channel!");
        return;
    }

    &logChannel($channel, "*** Leaving #$channel ($msg)");
    $self->part("#$channel", '$msg');

    &log("**** Closing log file for channel #$channel") if ($config{debug});

    # bot is not there anymore...
    &removeChannel($channel);
}

#
# adds channel to list of bot's channels
#
sub addChannel {
    my ($channel) = @_;
    $onchannels{$channel} = time();
    &log("added '#$channel") if ($config{debug});
}

```

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```

if ($config{debug}) {
    &log("channels:");
    my $c;
    foreach $c (keys %onchannels) {
        &log("$c,");
    }
}

#
# removes channel from list of bot's channels
#
sub removeChannel {
    my ($channel) = @_;

    delete $onchannels{$channel};
    delete $channelnicks{$channel};
    delete $opchannels{$channel};
    &log("removed '#$channel") if ($config{debug});

    delete $channelnicks{$channel};
    delete $opchannels{$channel};

    if ($channelnicks{$channel}) {
        &log("I still have nicklist of $channel. FIX THIS!");
    }
    if ($opchannels{$channel}) {
        &log("I still have oplist for $channel. FIX THIS!");
    }

    if ($onchannels{$channel}) {
        &log("!!! For some reason $channel is still on channels list !!!");
    }

    if ($config{debug}) {
        &log("channels:");
        my $c;
        foreach $c (keys %onchannels) {
            &log("$c $onchannels{$c}");
        }
    }

    if (!%onchannels) {
        # bot is not on any channel anymore :
        &log("I'm not on any channel. Well, I will idle then and join to some channel later.");

        # check out number of known channels
        my $ptr = $arrays{'known_channels'};
        if ($#$ptr < 1) {
            &log("Unfortunatelly I don't know any channels to join! Please help!");
        }
    }

    # close that file handle
    my $chfh = &getFileHandle($channel);

    $conn->parent->queue(time + 5,
        sub{
            close $chfh || &log("Error closing filehandle '$chfh': $!");
        }, $conn);
}

sub getFileHandle {

```

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```

my ($channel) = @_;
my $secchannel = $channel;
$secchannel =~ s/\//\;|\&|\<|\>/g;

my $chfh = "logfile_.$secchannel._handle";
return $chfh;
}

#
# join to $channel
# params: self, channelname, key
sub joinChannel {
    my ($self, $channel) = @_;

    if (!$self || !$channel) {
        &log("**** ERROR: not enough parameters for &joinChannel()") if ($config{debug});
        return;
    }

    # there might be a key in the channel name
    my $key = "";
    ($channel, $key) = split /\ /, $channel;
    $channel = lc($channel);

    # this is necessary for using scalar as filehandle!!!
    no strict "refs";

    # check if channel was forbidden
    my $chn = "";
    foreach $chn ($arrays{'dontgochannels'}) {
        $chn = lc($chn);
        if ($channel eq $chn) {
            &log("#$channel is forbidden. Join cancelled.");
            return;
        }
    }

    # which log file to use
    my ($sec, $min, $hour, $day, $month, $year) = &getTime( localtime(time()) );
    my $secchannel = $channel;
    $secchannel =~ s/\//g;
    $LOGFILE = "$PUBLOGPATH/$secchannel.$year.$month.$day.txt";

    $channel = lc($channel);
    if ($channel =~ /^\.\|^&|^<|^\>/) {
        &log("**** ILLEGAL CHANNEL '$channel'");
        return;
    }

    &addChannel($channel);

    # this is for security
    # my $chfh = "logfile-$channel";
    my $chfh = &getFileHandle($channel);

    &log("**** Opening new log file '$LOGFILE'.") if ($config{debug});
    open ($chfh, ">>$LOGFILE") || die ("Can't open LOGFILE: $LOGFILE: $!");
    if ($key) {
        &logChannel($channel, "**** Joining#$channel with key");
    }
}

```

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```

}
else {
    &logChannel($channel, "**** Joining#$channel");
}

if ($key) {
    # join channel with key
    $self->join("#$channel", "$key");
}
else {
    # join channel
    $self->join("#$channel");
}

}

#
# return time in common format
#
sub getTime {
    my ($sec, $min, $hour, $day, $month, $year) = @_;
    if ($sec < 10) { $sec = "0$sec"; }
    if ($min < 10) { $min = "0$min"; }
    if ($hour < 10) { $hour = "0$hour"; }
    if ($day < 10) { $day = "0$day"; }
    if ($month < 10) { $month = "0$month"; }

    $month++;
    $year += 1900;

    # return the time
    return ($sec, $min, $hour, $day, $month, $year);
}

#
# get random channel
#
sub randChannel {
    my $ptr = $arrays{'known_channels'};
    my $max = $#$ptr;

    if ($max < 1) {
        &log("**** Unfortunately I don't know any channels to join! Please help!");
    }

    my $nr = int(rand($max)+1);
    my $chan = "";

    $chan = @$ptr[$nr];

    return $chan;
}

#
# What to do when someone got kicked
sub on_kick {
    my ($self, $event) = @_;
    my $oper = $event->nick;
    my ($to) = ($event->to)[1];
    my ($nick) = ($event->to)[0];
}

```

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```

my ($channel) = ($event->args)[0];
my (@args) = ($event->args);
my (@to) = ($event->to);

my $userhost = $event->userhost;
$channel =~ s/^\#\!/g; # remove # from channel name

shift (@args);

if ($nick eq $bot_nick) {
    # if bot was kicked
    &logChannel($channel, "# I got kicked from \#$channel by '$oper' ($userhost) [@args].");
    # this is for log handling only
    &leaveChannel($self, $channel);

    # whine a little bit
    &msgPhrase($self, $oper, $arrays{'phrases_curse'});
}

else {
    # someone got kicked
    &logChannel($channel, "$nick got kicked from \#$channel by '$oper' ($userhost) [@args].");

    # say something funny about person just left
    if ($config{onleaveflamefreq} && &ifrand($config{onleaveflamefreq}, 'onleaveflamefreq')) {
        &sayPhrase($self, $channel, $nick, $arrays{'phrases_onleaves'});
    }
}

# Handles some messages you get when you connect
sub on_init {
    my ($self, $event) = @_;
    my (@args) = ($event->args);
    shift (@args);

    &log("****@args");
}

# on noprivileges; last action I did, I might have not been privileged to
# do it
sub on_noprivileges {
    my ($self, $event) = @_;
    my (@args) = ($event->args);
    shift (@args);

    &log("**** No privileges: @args");
}

#
# someone left
#
sub on_part {
    my ($self, $event) = @_;
    my ($channel) = ($event->to)[0];
    my $nick = $event->nick;
}

```

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```

$nick = lc($nick);
my $userhost = $event->userhost;
$channel =~ s/^\#\!/g; # remove # from channel name

&removeNick($channel, $nick); # remove user from nicklist on channel
&logChannel($channel, "**** $nick ($userhost) has left channel ".$channel);

# # check out number of people on channel, leave if boring
# my $max = $#{$channelnicks{$channel}};
# if ($max < 1 && $nick ne $bot_nick) {
#     &logChannel($channel, "**** It seems that I'm alone on this channel. I want
# to go away!");
#     &leaveChannel($self, $channel);
# }

# say something funny about person just left
if ($config{onleaveflamefreq} && &ifrand($config{onleaveflamefreq}, 'onleaveflamefreq')) {
    &sayPhrase($self, $channel, $nick, $arrays{'phrases_onleaves'});
}

#
# someone left
#
sub on_quit {
    my ($self, $event) = @_;
    my $nick = $event->nick;
    my $userhost = $event->userhost;
    my $reason = sprintf("%s", $event->args);
    my $to = sprintf("%s", $event->to);

    $nick = lc($nick);

    my $channel;
    my $chnick;

    &log("**** [$to] $nick ($userhost) has quit: '$reason' [". $event->args ."]");

    #
    # as quit-event does not tell the channels, we need to check out them ourselves
    #

    # all channels
    foreach $channel (keys %onchannels) {
        &log ("**** #$channel:") if ($config{debug});

        # all nicks on channel
        foreach $chnick (@{$channelnicks{$channel}}) {
            $chnick = lc($chnick);
            &log ("**** $chnick") if ($config{debug});

            # if nick was on that channel
            if ($nick eq $chnick) {

                &log ("***** $chnick == $nick") if ($config{debug});

                # remove nick from channel list
                &removeNick($channel, $nick); # remove user from nicklist on channel

                # log event
                &logChannel($channel, "**** $nick ($userhost) has quit: '$reason'");

                # say something funny about person just left
            }
        }
    }
}

```

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```

if ($config{onleaveflamefreq} && &ifrand($config{onleaveflamefreq}, 'onleaveflamefreq') ) {
    &sayPhrase($self, $channel, $nick, $arrays{'phrases_onleaves'});
}
}

}

}

sub on_whoisreply {
my ($self, $event) = @_;
my @args = $event->args();
my $nick = $args[1];
$nick = lc($nick);

&log("** Whoisreply:@args") if ($config{debug});

# get last part of args
# my $ircname = pop @args;
#
# split words
# my (@words) = split /\ /, $ircname;

}

sub on_whoischannels {
my ($self, $event) = @_;
my @args = $event->args();
my $me = shift @args;
my $nick = shift @args;
# my $nick = $args[1];
$nick = lc($nick);
$me = lc($me);

&log("** Whoischannels:$me[$nick]@args") if ($config{debug});

my @chans = split / /, $args[0];
foreach my $chnn (@chans) {
    $chnn = lc($chnn); # lowercase
    &learnChannel($chnn, $arrays{'known_channels'});
}

}

sub checkRealname {
my ($self, $nick, $ircname) = @_;

# split words
my (@words) = split /\ /, $ircname;

# check realname
#
if ($#words < 1) {
    # need atleast 2 words
    &log("!!! '$nick' ircname is too short: '$ircname'");
}
}

```

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```

my $channel;
foreach $channel (keys %onchannels) {
    # for each channel the bot is on

    if ($opchannels{$channel}) {
        # check only channels the bot is an @
        my $chnick;
        $channel = lc($channel);
        foreach $chnick (@{$channelnicks{$channel}}) {
            # for each nick on that channel

            $chnick = lc($chnick);

            if ($config{realnamecheck}) {
                if ($nick eq $chnick) {
                    &kickUser($self, $channel, $nick, "Mikä nimi '$ircname' mukaan??");
                    &msg($self, $nick, "Hei $nick! Kirjoita se oma nimesi IRC-clientissäsi siihen kohtaan missä sitä kysytään niin voit tulla \#$channel -kanavalle! '$ircname' ei taida olla oikea nimesi... ; ps. käy www.peelo.com:ssa!");
                }
            }
        } # if op
    }
}

# What to do when someone joins a channel the bot is on.
sub on_join {
my ($self, $event) = @_;
my $nick = $event->nick;
my $userhost = $event->userhost;
my ($channel) = ($event->to)[0];

$nick = lc($nick);
my $in = "\\\\";
if ($nick =~ /$in/g) {
    &log("!!! Illegal nick: $nick");
    return;
}

$channel =~ s/\#/ /g; # remove # from channel name
$channel = lc($channel);

&addNick($channel, $nick); # add user to nicklist on channel
&logChannel($channel, "!!! $nick ($userhost) has joined channel \#$channel.");
&whois($self, $nick) if ($nick ne $bot_nick);
}

#
# Checks given userinfo against given userlist
# returns 1 if found, 0 if not found.
# Prints debug if $config{debug} = 1
# Input: ('nick!user@host', @userlist)
#
sub checkuser {
my ($us_nick, $uuser, @userlist) = @_;

if (!$us_nick || !$uuser || !@userlist) {
    &log("!!! INVALID CALL OF &checkuser(). Not enough arguments.");
}
}

```

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```

}

# lowercases are simpler to handle
$us_nick = lc($us_nick);
$uuser = lc($uuser);

my ($rest, $listed, $listed_nick, $listed_user, $listed_host) = "";
my ($us_user, $us_host) = "n";

($us_user, $us_host) = split /\@/, $uuser;

# make non-* versions
my $us_nick_p = $us_nick;
my $us_user_p = $us_user;
my $us_host_p = $us_host;
$us_nick_p =~ s/\*|\^|_|~//; # get rid of foo characters
$us_user_p =~ s/\*|\^|_|~//;
$us_host_p =~ s/\*|\^|_|~//;

my ($listed_nick_p, $listed_user_p, $listed_host_p) = "";

# foreach operator on list
foreach $listed (@userlist) {
    $listed = lc($listed); # lower case

    # split more and more and more
    ($listed_nick, $rest) = split /\!/, $listed;
    ($listed_user, $listed_host) = split /\@/, $rest;

    # make non-* versions
    $listed_nick_p = $listed_nick;
    $listed_user_p = $listed_user;
    $listed_host_p = $listed_host;
    $listed_nick_p =~ s/\*//; # get rid of '*'s
    $listed_user_p =~ s/\*//;
    $listed_host_p =~ s/\*//;

    if (!$listed_nick || !$listed_user || !$listed_host) {
        &log ("# ERROR: Invalid content in list: ('$listed_nick' '$listed_user' '$listed_host').");
    }
    if ($config{debug} > 3) {
        &log ("# checking '$listed' ('$listed_nick', '$listed_user', '$listed_host')");
        &log ("\tagainst ('$us_nick', '$us_user', '$us_host')");
    }

    # nicely structured if's
    if (
        (($listed_nick =~ /\*/) && ($us_nick_p =~ /$listed_nick_p/gi)) ||
# '*nick'
        (($listed_nick !~ /\*/) && ($listed_nick eq $us_nick)) ||      # 'nick'
        ($listed_nick eq '*')                                              # '*'
    ) {
        # nick matched pattern
        &log ("# Nick matched") if ($config{debug});

        if (
            (($listed_user =~ /\*/) && ($us_user_p =~ /$listed_user_p/gi)) ||
# '*user'
            (($listed_user !~ /\*/) && ($listed_user eq $us_user)) ||
# 'user'
            ($listed_user eq '*')
# '*'
        ) {
            # user matched pattern
            &log ("# User matched") if ($config{debug});
        }
    }
}

```

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```

if (
    (($listed_host =~ /\*/) && ($us_host_p =~ /$listed_host_p/gi)) ||
# '*host'
    (($listed_host !~ /\*/) && ($listed_host eq $us_host)) ||
# 'host'
    ($listed_host eq '*')                                              # '*'
) {
    # and host matched pattern
    &log ("# Host matched") if ($config{debug});
    &log ("# All matched. Returning 1.") if ($config{debug});

    # all patterns matched!
    return 1;
}

else {
    &log ("# Host mismatched") if ($config{debug});
}

else {
    &log ("# User mismatched") if ($config{debug});
}

else {
    &log ("# Nick mismatch.") if ($config{debug});
}

#foreach

# this user did not match the pattern (maybe some parts of it, but not all)
&log ("# Did not match completely. Returning 0.") if ($config{debug});
return 0;
}

# What to do when we receive a private PRIVMSG.
sub on_msg {
    my ($self, $event) = @_;
    my ($nick) = $event->nick;
    my $userhost = $event->userhost;
    my $msg = sprintf("%s", $event->args);

    $nick = lc($nick); # we use lowercase nicks all the time

    return if ($nick eq $bot_nick); # this HAS happened;

    # ignore short messages
    return if (length($msg) < 3);

    # check ignores
    foreach my $ignores ($arrays{'ignores'}) {
        if ($nick eq $ignores) {
            &logMessage($nick, "***[IGNORED]<$nick>$msg");
            &msg($self, $nick, "Olet ignoressa. Käy katsomassa www.peelo.com.");
            return;
        }
    }

    # check for repeat
    if ($inmsghash{$nick} && $inmsghash{$nick} eq $msg) {

```

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```

&logMessage($nick, "**** $nick is repeating, ignoring this line");
    return;
}
else {
    $inmsghash{$nick} = $msg;
}

# learn #channels
#
if ($msg =~ /\#/gi) {
    my $ncc = $msg;
    $ncc =~ s/ll|lla|\:/gi; # remove -lle and -lla and :
    &learnChannel($ncc, $arrays{'known_channels'});
}

# if we have messaged to user
if ($msghash{$nick}) {
    # clear that info because user replied to us
    $msghash{$nick} = "";
}

if ( &checkuser($nick, $userhost, @masters) ) {

    # we don't want to log masters messages
    &log ("**$nick*($userhost)$msg");

    if ($msg =~ /join\ \#(.*)/i) {
        # join given #channel

        &msg($self, $nick, "[ACTION] Joining channel #$1");
        &log ("***$nick told me to join channel #$1");

        &learnChannel ("#$!", $arrays{'known_channels'});

        &joinChannel($self, $1);

        return;
    }
    elsif ($msg =~ /say\ \#(.*)\ (.*)/i) {
        # say that phrase
        &say($self, $1, $2);
        return;
    }
    elsif ($msg =~ /cmd\ (.*)/i) {
        # execute ANY command : ) * This may be too dangerous!!
        if (!$1) {
            &log ("no cmd!");
        }
        else {
            &log ("[CMD]$1");
            $self->sl($1);
        }
        return;
    }
    elsif ($msg =~ /part\ \#(.*)/i) {
        # leave channel
        &msg($self, $nick, "[ACTION] Leaving channel #$1");
        &log ("***$nick told me to leave channel #$1");

        &leaveChannel($self, $1);
        return;
    }
    elsif ($msg =~ /nick\ (.*)/gi) {
        # change nick

```

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```

        &msg($self, $nick, "[ACTION] Changing nick to $1");
        &log ("***$nick told me to change nick to $1");

        $bot_nick = $1;
        $self->nick($1);
        return;
    }
    elsif ($msg =~ /topic\ \#(.*)\ (.*)/gi) {
        # change topic

        &msg($self, $nick, "[ACTION] Changing topic on channel #$1");
        &log ("***$nick told me to change topic on channel #$1 to $2");

        &changeTopic($self, $1, $2);
        return;
    }
    elsif ($msg =~ /msg\ (.*)\ (.*)/gi) {
        &msg($self, $1, $2);
        return;
    }
    elsif ($msg =~ /kick\ \#(.*)\ (.*)/gi) {
        # kick user out
        # channel, nick, reason
        my $ri = &randomPhrase(undef, $arrays{'phrases_curse'});

        &kickUser($self, $1, $2, $ri);
        return;
    }
    elsif ($msg =~ /ban\ \#(.*)\ (.*)\ (.*)/gi) {
        # ban user from #$2 to $3 seconds
        &banUser($self, $1, $2, $3);
        return;
    }
    elsif ($msg =~ /unban\ \#(.*)\ (.*)/gi) {
        # unban
        &unbanUser($self, $1, $2);
        return;
    }
    elsif ($msg =~ /newchan/gi) {
        my $nc = &randomKnownChannel();
        &log ("Joining to $nc") if ($config{debug});
        &joinChannel($self, $nc);
    }
    elsif ($msg =~ /status/gi) {
        # admin asked for STATUS

        # print all channels bot is on
        my ($xqchn, $xqchs);
        foreach $xqchn (keys %onchannels) {
            $xqchs .= "#$xqchn ";
        }

        my $uptime = time() - $time_start;
        &msg($self, $nick, "[STATUS] On channels: $xqchs. Uptime: $uptime seconds.");
    }
    elsif ($msg =~ /move/gi) {
        # bot must move on to next channel

        &msg($self, $nick, "[ACTION] Joining new random channel... ");
        &log ("[ACTION] $nick asked me join new random channel");

        &joinChannel($self, &randChannel());
        return;
    }
    elsif ($msg =~ /die/) {
        &msg($self, $nick, "[DIE] Oh my god, you killed me!");
    }
}

```

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```

    &quitter($self);
}
elsif ($msg =~ /^dontgo\ \#(.*)/) {
    # dont go to that channel anymore...
    my $ptr = $arrays{'dontgochannels'};
    push @$ptr, $1;
    &msg($self, $nick, "[SETTINGS] Added '$1' to ".$arrays{'dontgochannels'} . ".");
    &log("[SETTINGS] $nick added '$1' to ".$arrays{'dontgochannels'});
    return;
}
elsif ($msg =~ /ignore\ (.*)/) {
    # ignore user
    &ignoreUser($1);
    &msg($self, $nick, "[SETTINGS] Added '$1' to ".$arrays{'ignores'} . ".");
    &log("[SETTINGS] $nick added '$1' to ".$arrays{'ignores'});
    return;
}
elsif ($msg =~ /set (.*) (.*)/g) {
    # SET configuration option (timeouts etc)
    &msg($self, $nick, "[CONFIG] $1=$2 [$config{$1}]");
    &log("[CONFIG] $1=$2 [$config{$1}]");
    $config{$1} = $2;
    return;
}
elsif ($msg =~ /set/g) {
    # LIST configuration options and their values
    my $ct;
    &log("/** Configuration Options:");
    &msg($self, $nick, "[CONFIG] Listing configuration options:");
    foreach $ct (keys %config) {
        &log("\t$ct=$config{$ct}");
        &msg($self, $nick, "\t$ct=$config{$ct}");
    }
}
elsif ($msg =~ /reboot/) {
    # master want's bot to reboot
    $KEEPRUNNING = 0; # this will be checked in main loop
    return;
}
else {
    # learn all questions for later use ;
    if ($msg =~ /\?/) {
        # take out nicks from beginning of phrases
        my $narg = $msg;
        $narg =~ s/^(.*)\:/ //;
        $narg =~ s/^(.*)\, //;
        $narg =~ s/^(.*)\://;
        $narg =~ s/^(.*)\,//;
        $narg =~ s/$bot_nick/\%nick/g;
        &learnPhrase($narg, $arrays{'phrases_questions'});
    }

    if (rand(100)+1 > 0) {
        &logMessage($nick, "*$nick* $msg");
        if (!$msg) {
            &log("EMPTY MESSAGE INPUT &onMsg");
            return;
        }
    }
}

```

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```

my $rep = &getReply($msg);
if ($rep) {
    &msgPhrase($self, $nick, $rep);
}
else {
    # we have no reply ;
}
}

}

else {
    &logMessage($nick, "*$nick* $msg");

    # learn all questions for later use ;
    if ($msg =~ /\?/) {
        # take out nicks from beginning of phrases
        my $narg = $msg;
        $narg =~ s/^(.*)\:/ //;
        $narg =~ s/^(.*)\, //;
        $narg =~ s/^(.*)\://;
        $narg =~ s/^(.*)\,//;
        $narg =~ s/$bot_nick/\%nick/g;
        &learnPhrase($narg, $arrays{'phrases_questions'});
    }

    if (rand(100)+1 > 0) {
        if (!$msg) {
            &log("EMPTY MESSAGE INPUT &onMsg\n\n");
            return;
        }

        my $rep = &getReply($msg);
        if ($rep) {
            &msgPhrase($self, $nick, $rep);
        }
        else {
            # we have no reply ;
        }
    }
}

#
# send whois -command
#
sub whois {
    my ($self, $nick) = @_;
    &log("/** whois $nick") if ($config{debug});
    $self->sl("whois $nick");
}

sub on_public_handler {

```

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```

my ($self, $nick, $channel, $message) = @_;
# we use only lowercase
$channel = lc($channel);
$nick = lc($nick);
my $time = time(); # get current unixtime

$onchannels{$channel} = $time; # set channels last public timestamp

# buffer all public lines
# my ($oldnick, $oldtime, $oldmessage);
my $pbsize = $#{$publicbuffer{$channel}}; # current size of this channels public buffer

if ($#{${publicbuffer}{$channel}} > $publicbuffersize) {
    # public buffer for this channel is full, take out first entry
    $oldmessage = pop @{$publicbuffer{$channel}};
    $oldtime = pop @{$publicbuffer{$channel}};
    $oldnick = pop @{$publicbuffer{$channel}};
    $pbsize--; # one removed, decrease this also
}

unshift @{$publicbuffer{$channel}}, ($nick, $time, $message);

# flood protection
# my ($q, $w);
my $floodrepeat = 0;
my $floodrate = 0;

for ($q = 0; $q <= $pbsize; $q += 3) {
    # check whole buffer

    if (@{$publicbuffer{$channel}}[$q] eq $nick) {
        # check all lines of this nick

        if (@{$publicbuffer{$channel}}[$q+2] eq $message) {
            # if user has made two similar lines

            $floodrepeat++;
        }

        if (@{$publicbuffer{$channel}}[$q+1] == $time) {
            # if user already said something on this same second
            $floodrate++;
        }
    }
}

if ($floodrepeat >= $config{floodrepeat}) {
    &logChannel($channel, "**** $nick is repeating atleast ". $config{floodrepeat} . " times. I will kick and ban him.");
    &banUser($self, $channel, $nick, 60);
    &kickUser($self, $channel, $nick, "Älä toista!");
    return;
}
elsif ($floodrate >= $config{floodrate}) {
    &logChannel($channel, "**** $nick is flooding atleast $config{floodrate} lines per second. I will kick and

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```

ban him.");
&banUser($self, $channel, $nick, 120);
&kickUser($self, $channel, $nick, "Älä floodaa!");
return;
}

# check that bot is not messaging to ignored ones
foreach my $signos ($arrays{'ignores'}) {
    if ($nick eq $signos) {
        &logChannel($channel, "[IGNORED]<$nick> $message");
        return;
    }
}

$chattalk{$channel} = $nick;
$lasttalked = $nick;
$time_public = time();
my $onick = $nick;

# $logarg is used to logging etc, $message for handling...
my $logarg = $message;

my @words = split /\s/, $message;
my $word;

# for all words on phrase
foreach $word (@words) {

    # look for nicks
    my $snck;
    foreach $snck (@{$channelnicks{$channel}}){
        next if ($snck =~ /\]/|\[|\\"/); # some bug, those characters cannot be handled correctly!?!
        if ($word =~ /$snck/i) {

            # that word was a nick on this channel
            &log("$word is a '$snck' on #$channel") if ($config{debug});

            if (rand(100)+1 > 90) {
                # say something about that nick on channel
                &sayPhrase($conn, $channel, $snck, $arrays{'phrases_questions'});
            }

            # modify original phrase; replace that with a tag for later use
            $message =~ s/$snck/\%randnick/gi;

            &log("** Replaced '$snck' with \%randnick") if ($config{debug});
        }
    }

    # look for adjectives
    my $adj;
    foreach $adj (@words_adjectives) {
        next if (!$adj);
        if ($word =~ /$adj/i) {
            $message =~ s/$adj/\%adjective/gi;
            &log("* '$word' is an adjective '$adj', replaced by tag \%adjective at &

```

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```

on_public());
# }

# look for numbers
my $num;
foreach $num ($arrays{'words_numbers'}) {
    if ($word =~ /$num/i) {
        $message =~ s/$num/\%number/gi;
        &log ("* 'Sword' is an number '$num', replaced by tag \%number at &on_public()");
    }
}

#####
# learn new adjective (if any)
if ($message =~ /^(.*)\ on\ (.*)/gi ) {
    &log ("* '$1' ON '$2'");
    my @ad = split /\ /, $2;
    my $adj = $ad[0];
    &log ("\t*** Learnt adjective '$adj'");
    &learnPhrase($adj, $arrays{'words_adjectives'});
}

# learn all questions for later use ;
if ($message =~ /\?/) {
    # take out nicks from beginning of phrases
    my $narg = $message;
    $narg =~ s/^(.*)\:/ //;
    $narg =~ s/^(.*)/, //;
    $narg =~ s/$bot_nick/\%nick/g;

    &learnPhrase($narg, $arrays{'phrases_questions'});
}

# ban lamers ;
if ($message =~ /(antakaa|antaa|anna|saanko|saisko)(.*) (opit|oppilaiset|obsit)/gi) {
    if (! &checkUser($nick, $userhost, @masters) ) {
        &banUser($self, $channel, $nick);

        my $ri = &randomPhrase($def, $arrays{'phrases_curse'});
        &kickUser($self, $channel, $nick, $ri );
        &sayPhrase($self, $channel, $nick, $arrays{'phrases_curse'});

    } else {
        &opUser($self, $channel, $nick);
        return;
    }
}

# learn #channels
# learn channels

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```

#
if ($message =~ /\#/gi) {
    $message =~ s/lle|lla//gi; # remove -lle and -lla
    &learnChannel($message, $arrays{'known_channels'});

    $message =~ s/(#\.*?) /\%randomchannel /g;
}

#
# Convert nick a bit
#
if (rand(100)+1 < 30) {

    # lowercase
    $nick = lc($nick);

    # un-3l33th
    $nick =~ tr/0123456789/oi2e456789/;

    # take out non-word-characters
    $nick =~ s/^\W//gi;
}
if (rand(100)+1 > 50)  {

    if (rand(100)+1 > 50)  {
        if (length($nick) > 6) {
            # take 4 first letters
            $nick = substr $nick, 0, length($nick)-3;
        }
    } else {
        if (length($nick) >= 5) {
            # take 5 first letters
            $nick = substr $nick, 0, length($nick)-1;
        }
    }
    # convert to lowercase
    $nick = lc($nick);
}

#
# check out what to do
#
if ($message =~ /$bot_nick/gi)  {

    # asked to leave
    if ($message =~ /(mee\ |mene\ |menisitk\ |menes\ )(pois|veke|muualle)/gi) {

        if (!$opchannels{$channel}) {
            # I'm asked to leave
            &logChannel($channel, "<$nick> $logarg");
            &logChannel($channel, "**** $nick ($userhost) asked me to leave \#$channel, leaving.");
            &logChannel($channel, "**** $nick asked me to leave \#$channel, leaving.");
            &say($self, $channel, "$nick, tuu\#$bot_chan -kanavalle...");

            $self->parent->queue(time + 10,
                sub{
                    &leaveChannel($self, $channel);
                }, $self);
        }
        &sayPhrase($self, $channel, $arrays{'phrases_curse'});
    }
}

```

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```

        }
    else {
        $self->parent->queue(time + 10,
            sub{
                &kickUser($self, $channel, $nick, "Mene itse! :)");
            }, $self);
    }

    return;
}

else {
    &logChannel($channel, "#<$onick>$logarg");

    # get reply based on message
    &sayPhrase($self, $channel, $nick, &getReply($message));
}

}

elsif ($config{nokeyreply} && &ifrand($config{nokeyreply}, 'nokeyreply') ) {
    &logChannel($channel, "<$onick>$logarg");
    &sayPhrase($self, $channel, $nick, &getReply($message));
}

else {
    # do nothing but log
    &logChannel($channel, "<$onick>$logarg");

}

# new
&addNick($channel, $onick); # add user to nicklist on channel
#####
# replies a reference to array of phrases
#
sub getReply {
    my ($message) = @_;

    if ($message =~ /tuli|takas|taas|kävit|sperm|lämmmin|hieno|ilma|hauska|hassu/gi)
    {
        return $arrays{'phrases_agrees'};
    }
    elsif ($message =~ /(kerro|osaatko) (.*)vitsi/gi) {
        return $arrays{'phrases_joke'};
    }
    elsif ($message =~ /(paljo|mitä|mitä|onk(.*)sul) (.*)kello/gi) {
        my ($xsec, $xmin, $xhour, $xdy, $xmonth, $xyear) = localtime(time());
        $xmonth++;

        $xmin = "0$xmin" if ($xmin < 10);
        $xsec = "0$xsec" if ($xsec < 10);
    }
}

```

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```

    # hours of day
    my @xhours = (
        'kaksitoista', 'yksi', 'kaksi', 'kolme', 'neljä',
        'viisi', 'kuusi', 'seitsemän', 'kahdeksan', 'yhdeksän',
        'kymmenen', 'yksitoista',
        'kaksitoista', 'yksi', 'kaksi', 'kolme', 'neljä',
        'viisi', 'kuusi', 'seitsemän', 'kahdeksan', 'yhdeksän',
        'kymmenen', 'yksitoista', 'kaksitoista'
    );

    my @xtime = ();

    if ($xmin > 0 && $xmin < 15 ) {
        @xtime = "Vähän yli ".$xhours[$xhour] .".";
    }
    elsif ($xmin >= 15 && $xmin < 30 ) {
        @xtime = "Taitaa olla $hour:$min.";
    }
    elsif ($xmin == 30) {
        @xtime = "Se on puoli ".$xhours[$xhour+1] .".";
    }
    elsif ($xmin > 30 && $xmin < 45) {
        @xtime = "Kohta viittätoista vaille ".$xhours[$xhour+1] .".";
    }
    elsif ($xmin == 45) {
        @xtime = "Tasan viittätoista vaille ".$xhours[$xhour+1] .".";
    }
    elsif ($xmin > 45 && $xmin <= 59) {
        @xtime = "Tulee kohta ".$xhours[$xhour+1] .".";
    }
    elsif ($xmin == 0) {
        @xtime = "Aikamerkki kello ".$xhours[$xhour] .". Seuraavaksi uutiset ja sää ;)";
    }
    else {
        @xtime = "Mun kello jää kotiin, oisko kellään muulla? ";
    }

    return \@xtime;
}

# new ones here
elsif ($message =~ /paljonko(.*)\?/i) {
    &learnPhrase($message, $arrays{'p_q_paljonko'});
    return $arrays{'p_a_paljonko'};
}
elsif ($message =~ /missä(.*)\?/i) {
    &learnPhrase($message, $arrays{'p_q_missa'});
    return $arrays{'p_a_missa'};
}
elsif ($message =~ /oletko(.*)\?/i) {
    &learnPhrase($message, $arrays{'p_q_oletko'});
    return $arrays{'p_a_oletko'};
}

##
elsif ($message =~ /botti|ihminen|human|elävä|botit|botte|ignore|ban|kick|kikat|potkika|windows|kernel|eggedrop|legge|eggi|mirc|ircii|mirk|scriini|kooda|bot|huoh|script|skript|robotti|koodi|linux|screen|ircii|browser|news|kovalevy|emolevy|kampiakseli|ohjaustehostin|irkki|turing|kone|java|kooda|tekoäly|tekoaly|turink|31337|potti|ohjelma/g) {
    &learnPhrase($message, $arrays{'phrases_whatis'});
    return $arrays{'phrases_whatis'};
}
elsif ($message =~ /\%randomchannel\ /) {
    &learnPhrase($message, $arrays{'phrases_channels'});
}

```

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```

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&learnPhrase($message, $arrays{'phrases_bored'});
return $arrays{'phrases_bored'};
}
elsif ($message =~ /moi|hei|moikka|heippa|tere|huhuu|juttuseuraa|tytötöji|pimuj|
terve|heps|iltaa|huomenta|päivää|morning|evening|paivaal|tere|moro|hello|hej|hi\|
mitäs/gi) {
    return $arrays{'phrases_greet'};
}
elsif ($message =~ /\?/) {
    # this seems to be good point to check if it was question ;
    return $arrays{'phrases_answers'};
}
elsif ($message =~ /kysy|kerro|tiedä|muista|sano|laula|monta|paljon/) {
    # this seems to be good point to check if it was question ;
    return $arrays{'phrases_questions'};
}
elsif ($message =~ /kuhan|oisko|kunhan|puhu|sano|jotain|mä\ vaan|kui\ |monta|m
eille|teille|oot|kiss|chat|ooks|oletko|ootsä|ootsa|ootko|missä|missa|miten|monta
k|milloin|mille|monelta|mistä|mista|mille|miltä|mitla|mihin|oox/gi) {
    &learnPhrase($message, $arrays{'phrases_wonders'});
    return $arrays{'phrases_wonders'};
}
else {
    return $arrays{'phrases_unknown'}; # unknown words, reply something stopid...
} # if known words

}

# Prints the names of people in a channel when we enter.
sub on_names {
    my ($self, $event) = @_;
    my (@list, $channel) = ($event->args);      # eat yer heart out, mjd!
    $channel = lc($channel);

    # splice() only works on real arrays. Sigh.
    ($channel, @list) = splice @list, 2;

    $channel =~ s/\#/!/g; # remove # from channel name

    my $nlist = "@list";
    my (@nicks) = split(/\ /, $nlist);

    my $nick;
    foreach $nick (@nicks) {
        next if ($nick eq $bot_nick);
        $nick =~ s/\@|\+//g; # remove @ and +
        #&addNick($channel, $nick); # add user to nicklist on channel
    }
}

&logChannel($channel, "Users on $channel: @list");

#     # check out number of people on channel, leave if boring
#     my $max = $#{$channelnicks{$channel}};
#     if ($max < 1) {
#         &logChannel($channel, "**** It seems that I'm alone on this channel. I wan
t to go away!");
#         &leaveChannel($self, $channel);
#     }
}

# cfinger
sub on_finger {

```

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```

my ($self, $event) = @_;
my $nick = $event->nick;

$self->ctcp reply($nick, join (' ', ($event->args), "$finger"));
&log("/** CTCP FINGER request from $nick received");

}

# cuserinfo
sub on_userinfo {
    my ($self, $event) = @_;
    my $nick = $event->nick;

    $self->ctcp reply($nick, join (' ', ($event->args), "$userinfo"));
    &log("/** CTCP USERINFO request from $nick received");
}

# cversion
sub on_version {
    my ($self, $event) = @_;
    my $nick = $event->nick;

    $self->ctcp reply($nick, join (' ', ($event->args), "$version"));
    &log("/** CTCP VERSION request from $nick received");
}

# Yells about incoming CTCP PINGS.
sub on_ping {
    my ($self, $event) = @_;
    my $nick = $event->nick;

    $self->ctcp reply($nick, join (' ', ($event->args)));
    &log("/** CTCP PING request from $nick received");
}

# Gives lag results for outgoing PINGS.
sub on_ping_reply {
    my ($self, $event) = @_;
    my ($args) = ($event->args)[1];
    my ($nick) = $event->nick;

    $args = time - $args;
    &log("/** CTCP PING reply from $nick: $args sec.");
}

# Change our nick if someone stole it.
sub on_nick_taken {
    my ($self) = shift;

    &log("**** Nick '$bot_nick' is reserved. Trying next nick on list...");

    sleep 5;

    my $newn = int(rand($#nicks)+1);
    my $bot_stolennick = $bot_nick;
    $bot_nick = $nicks[$newn];

    $self->nick($bot_nick);

    # inform that nick-taker that nick was reserved for me ;
    $self->parent->queue(time + 2,
        sub{
            &msg($self, $bot_stolennick, "$bot_stolennick is my nick, please give it back! - $bot_stolennick on mun nikki, anna se heti takaisin!!!");
        }, $self);
}

```

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```

}

# What to do when we receive channel text.
#
sub on_public {
    my ($self, $event) = @_;
    my ($nick, $mynick) = ($event->nick, $self->nick);
    my ($message) = ($event->args);
    my $userhost = $event->userhost;
    my $res = "";
    my ($channel) = ($event->to)[0];
    $channel =~ s/\#\//g; # remove # from channel name

    &on_public_handler($self, $nick, $channel, $message);
}

# Display formatted CTCP ACTIONS.
sub on_action {
    my ($self, $event) = @_;
    my ($nick, @args) = ($event->nick, $event->args);
    my ($dest) = ($event->to)[0];
    $dest =~ s/\#\//g; # remove # from channel name

    # :FIXME: this should not be necessary:
    shift @args;

    if ($dest eq $bot_nick) {
        # it was private for bot
        &logMessage($nick, "[CTCP ACTION] $nick @args");
        &on_public_handler($self, $nick, $nick, "@args");
    }
    else {
        my $channel = $dest;
        &logChannel($channel, "[CTCP ACTION] $nick @args");
        &on_public_handler($self, $nick, $channel, "@args");
    }

    $time_public = time();
}

# when someone changes mode
#
sub on_mode {
    my ($self, $event) = @_;
    my (@to) = $event->to;
    my ($operhost) = $event->userhost;

    my ($oper, @args) = ($event->nick, $event->args);
    $oper = lc($oper);

    my $channel = $to[0];
    $channel = lc($channel);
    $channel =~ s/\#\//g; # remove the hash

    my $mode = shift(@args);
}

```

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```

my $target = shift(@args);

if ($oper eq $bot_nick && $oper eq $bot_nick && !$target) {
    # bot changed personal mode
    &log("**** I set personal mode $mode\n");
} else {

    if (!$target) {
        # there was no target, it must have been to that channel
        $target = $channel;
    }

    $target = lc($target);

    &logChannel($channel, "**** Soper sets mode $mode $target on #$channel") ;

    if ($target eq $bot_nick) {
        # mode has something to do with bot

        if ($mode =~ /\+b/) {
            # bot got banned

            &logChannel($channel, "**** I got banned by $oper!");

            if (!&checkUser($oper, $operhost, @masters)) {
                # if oper is not master, try to ban & nick him

                my $ri = &randomPhrase($oper, $arrays{'phrases_curse'});
                &banUser($self, $channel, $oper);
                &kickUser($self, $channel, $oper, $ri );
            }
        }
        elsif ($mode =~ /\-b/) {
            # bot's ban was removed
            &logChannel($channel, "**** I got unbanned by $oper!");
        }
        elsif ($mode =~ /\+o/) {
            # bot got @
            &logChannel($channel, "**** I got @ from $oper!");
            $opchannels{$channel} = time();
        }
        elsif ($mode =~ /\-o/) {
            # bot lost @
            &logChannel($channel, "**** Soper took my @ out!");
            &sayPhrase($self, $channel, $oper, $arrays{'phrases_curse'});
            &msgPhrase($self, $oper, $arrays{'phrases_curse'});
            &msgPhrase($self, $oper, $arrays{'phrases_curse'});
            delete $opchannels{$channel};
        }
        elsif ($mode =~ /\-v/) {
            # bot lost voice
            &logChannel($channel, "**** Soper took my voice!");
            &msgPhrase($self, $oper, $arrays{'phrases_curse'});
        }
        elsif ($mode =~ /\+v/) {
            # bot got voice
            &logChannel($channel, "**** Soper gave me voice!");
        }
    }
} # to bot?
else {
}

```

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```

# mode was for channel, not for the bot

if ($mode =~ /\+m/) {
    # channel is moderated
    &logChannel($channel, "**** #$channel is now moderated!");
}
elsif ($mode =~ /\-m/) {
    # channel is moderated
    &logChannel($channel, "**** #$channel is not moderated anymore.");
}
}

} # ELSE

}

#####
# other event
#
sub on_other {
    my ($self, $event) = @_;
    my @args = $event->args();

    &log("**** OTHER EVENT:@args");
}

#
# when bot cannot join to some channel for some reason we need to close the
# filehandle for that channel etc...
#
sub on_cantjoin {
    my ($self, $event) = @_;
    my @args = $event->args();
    my $channel = $args[1];
    $channel =~ s/\#/ /g;
    $channel = lc($channel);

    &logChannel($channel, "**** #$channel $args[2]");
    &leaveChannel($self, $channel);
}

#
# 404 Cant Send to Channel
# leave the channel then
#
sub on_cantsendtochannel {
    my ($self, $event) = @_;
    my @args = $event->args();
    my $channel = $args[1];
    $channel =~ s/\#/ /g;
    $channel = lc($channel);

    &logChannel($channel, "**** #$channel $args[2]");
    &leaveChannel($self, $channel);
}

#
# 482 You're not channel operator
# leave the channel then

```

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```

#
sub on_youarenotchanop {
    my ($self, $event) = @_;
    my @args = $event->args();
    my $channel = $args[1];
    $channel =~ s/\#/;/g;
    $channel = lc($channel);

    &logChannel($channel, "**** \$channel $args[2]");

}

#
# general error event...
#
sub on_error {
    my ($self, $event) = @_;
    my @args = $event->args();

    &log("**** ERROR EVENT: @args");
}

#
# someone invited bot
#
sub on_invite {
    my ($self, $event) = @_;

    my @args = $event->args();
    my $nick = $event->nick;
    my $nickhost = $event->userhost;
    my $to = $args[0];
    $to =~ s/\#/;/g;

    &log("**** '$nick' ($nickhost) invited me to channel \$to");

    if ($to =~ /\//) {
        &log("** invalid channel name '$to'. Contains /");
        return;
    }
    if ($to =~ /\&/) {
        &log("** invalid channel name '$to'. Contains &");
        return;
    }

    if ($onchannels{$to}) {
        &log(": $onchannels{$to}");
        &log("**** I'm already on \$to. Perhaps I don't have to join again.");
        return;
    }

    &learnChannel("\$to", $arrays{'known_channels'});

    &inviteUser($self, "$bot_chan", $nick);

    if ($config{joinoninvite}) {

        $self->parent->queue(time + 5,
            sub{
                &joinChannel($self, $to);
                $self->parent->queue(time + 5,
                    sub{
                        &say($self, $to, &randomPhrase(
                            $nick, $arrays{'phrases_oninvite'}));
                    }, $self);
            });
    }
}

```

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```

}, $self);

#
}
else {
    &msg($self, $nick, 'Hei! En pääse tulemaan juuri nyt, yritä myöhemmin uudelleen!');
}

#
# Reconnect to the server when we die.
sub on_disconnect {
    my ($self, $event) = @_;
    my @args = ($event->args());

    &log("**** Disconnected from $bot_server: @args");

    sleep 1;
    $bot_server = $servers[int(rand($#servers)+1)];
    &log("**** Disconnected: ".$args[0].", trying $bot_server");
    &do_connect();
}

sub on_nick {
    my ($self, $event) = @_;
    my ($nick, $mynick) = ($event->nick, $self->nick);
    my ($newnick) = ($event->args());
    my $userhost = $event->userhost;

    my $channel;
    my $chnick;

    my $newnicklog = $newnick;
    my $nicklog = $nick;

    $nick = lc($nick);
    $newnick = lc($newnick);

    # all channels
    foreach $channel (keys %onchannels) {

        # all nicks on channel
        foreach $chnick (@{$channelnicks{$channel}}) {
            $chnick = lc($chnick);

            # if nick was on that channel
            if ($nick eq $chnick) {

                # remove nick from channel list
                &removeNick($channel, $nick);

                # add new nick to channel
                &addNick($channel, $newnick);

                # log event
                &logChannel($channel, "**** $nicklog is now known as $newnicklog");
            }
        }
    }
}

```

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```

}

# Look at the topic for a channel you join.
sub on_topic {
    my ($self, $event) = @_;
    my @args = $event->args();
    my $nick = $event->nick;
    my $nick_host = $event->from;
    my $channel;

    if ($event->type() eq 'notopic') {
        $channel = $args[1];
        $channel =~ s/^\#/!/g;
        $channel = lc($channel);
        &logChannel($channel, "No topic set for #$channel.\n");
    }
    elsif ($event->type() eq 'topic' and $args[0] ne $bot_nick) {
        # If it's being done _to_ the channel, it's a topic change.

        $channel = ($event->to)[0];
        $channel =~ s/^\#/!/g;
        $channel = lc($channel);

        &logChannel($channel, "$nick ($nick_host) has changed the topic on channel #$channel to $args[0]");
    }
    else {
        # it just is the topic
        $channel = $args[1];
        $channel =~ s/^\#/!/g;
        $channel = lc($channel);

        &logChannel($channel, "The topic for #$channel is $args[2]");
    }
}

sub do_connect {
    &log("**** Connecting to $bot_server");

    $conn = $irc->newconn(Server => ("$bot_server"),
                           Port   => 6667,
                           Nick   => ("$bot_nick"),
                           Ircname => ("$bot_realname"),
                           Username => ("$bot_username")
                           )
    or die "irctest: Can't connect to IRC server.\n";
}

#
# returns 1 or 0, rand from 0 to 1000 must be bigger than given freq
#
sub ifrand {
    # 0-1000
    my ($freq, $purpose) = @_;
    my $rand = int(rand(1000)+1);

    $purpose = "FIX:unknown!" if (!$purpose);
    return 0 if (!$freq);
    if ( $config{debug} > 5 ) {
}

```

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```

    &log ("RAND: $rand FREQ: $freq ($purpose)");

    if ( $rand < $freq) {
        return 1;
    }
    else {
        return 0;
    }

# ^C
#
sub quitter {
    my $self = shift;

    &log ("*** Quitting as requested.");
    &do_quit();
    &log ("Doing untie for arrays...");
    &untieAllArrays();

    &log ("All saved.");
    &log ("Removing pid-file...");
    unlink "$pidfile" || &log ("Can't remove PIDFILE $pidfile: $!");
    &log ("...removed ok.");

    &log ("*** Now exiting. Bye.");
    exit;
}

#
# MAIN
#
#
# Start it
#
&log ("**** Starting...");

while (1) {
    # this is not the main loop...
    $irc = new Net::IRC;
}

```

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```

&do_connect();

# tähän pitäisi kirjoittaa temporary handler routinesysteemi, esim
#whoisreplyjen nappaamiseen!
#
#


&log ("*** Installing handler routines...");

$conn->add_handler('nick',      \&on_nick);
$conn->add_handler('cping',     \&on_ping);
$conn->add_handler('crping',   \&on_ping_reply);
$conn->add_handler('msg',       \&on_msg);
$conn->add_handler('public',    \&on_public);
$conn->add_handler('caction',   \&on_action);
$conn->add_handler('join',      \&on_join);
$conn->add_handler('part',      \&on_part);
$conn->add_handler('leave',     \&on_part);
$conn->add_handler('quit',      \&on_quit);
$conn->add_handler('sign',      \&on_quit);
$conn->add_handler('topic',     \&on_topic);
$conn->add_handler('notopic',   \&on_topic);

$conn->add_global_handler([ 251,252,253,254,302,255 ], \&on_init);
$conn->add_global_handler('disconnect', \&on_disconnect);
$conn->add_global_handler(376, \&on_connect);
$conn->add_global_handler(433, \&on_nick_taken);
$conn->add_global_handler(353, \&on_names);

$conn->add_global_handler('cfinger', \&on_finger);
$conn->add_global_handler('cuserinfo', \&on_userinfo);
$conn->add_global_handler('cversion', \&on_version);

$conn->add_global_handler('mode', \&on_mode);
$conn->add_global_handler('kick', \&on_kick);

$conn->add_global_handler('noprivileges', \&on_noprivileges);

$conn->add_global_handler('invite', \&on_invite);

$conn->add_global_handler(401, \&on_other); # no such nick / channel

$conn->add_global_handler('other', \&on_other);

$conn->add_global_handler(311, \&on_whoisreply); # whoisuser
$conn->add_global_handler(312, \&on_whoisreply); # whoisserver
$conn->add_global_handler(313, \&on_whoisreply); # whoisoperator
$conn->add_global_handler(314, \&on_whoisreply); # whoiswasuser
$conn->add_global_handler(315, \&on_whoisreply); # endofwho
$conn->add_global_handler(316, \&on_whoisreply); # whoischanop
$conn->add_global_handler(317, \&on_whoisreply); # whoisisidle
$conn->add_global_handler(318, \&on_whoisreply); # endofwhois
$conn->add_global_handler(319, \&on_whoischannels); # whoischannels

$conn->add_global_handler('error', \&on_error);

$conn->add_global_handler(475, \&on_cantjoin); # +k
$conn->add_global_handler(474, \&on_cantjoin); # +b
$conn->add_global_handler(473, \&on_cantjoin); # +i

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```

$conn->add_global_handler(404, \&on_cantsendtochannel);

$conn->add_global_handler(482, \&on_youarenotchanop); # you are not @

#


$irc->do_one_loop();

sleep 5; # waiting all things to start...

$KEEPRUNNING = 1;

my $Seconds_10 = 10; # 10..0, then reset
my $Seconds_60 = 60; # 60..0

while ($KEEPRUNNING) {
    # THIS is the main loop

    # do one loop, first round does the magic
    $irc->do_one_loop();

    $Seconds_10--;
    $Seconds_60--;

    if ($Seconds_10 <= 0) { $Seconds_10 = 10; }
    if ($Seconds_60 <= 0) { $Seconds_60 = 60; }

    # randomly join some known channel
    if ($config{autojoinfreq} && &ifrand($config{autojoinfreq}, 'autojoinfreq') ) {
        &log ("Thinking about to join some random channel...") if ($config{debug});
        # join new channel
        &joinChannel($conn, &randomKnownChannel());
    }
    elsif ( $config{automonologue} && &ifrand($config{automonologue}, 'automonologue') ) {
        # say something to channel
        my $ch = &randomChannel;
        &log ("Thinking about to say something randomly at '#$ch') if ($config{debug});

        if ( $ch{talk}{$ch} && $ch{talk}{$ch} ne $bot_nick ) {
            # if bot was not last talker at channel... Talk!
            &sayPhrase($conn, $ch, undef, $arrays{'phrases_questions'});
        }
        else {
            if ($config{debug}) {
                &log ("Skipping idea because I was last talker.");
            }
        }
    }
    elsif ( $config{autodialog} && &ifrand($config{autodialog}, 'autodialog') ) {
        # say something to someone
        my $ch = &randomChannel;
        my $nick = &randomNick($ch);

        if ($nick) {
            &log ("Thinking about to say something to '$nick' randomly at '#$ch') if ($config{debug});

            if ( $ch{talk}{$ch} && $ch{talk}{$ch} ne $bot_nick ) {
                # if bot was not last talker at channel... talk!
                &sayPhrase($conn, $ch, $nick, $arrays{'phrases_questions'});
            }
        }
    }
}

```

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```

    }
}

} else {
    if ($config{debug}) {
        &log ("\tSkipping idea because I was last talker.");
    }
}
}

$ch = &randomChannel;

if ($ch eq $bot_chan) {
    &log ("***I don't want to invite anyone from \#$bot_chan as he already is there ;)") if ($config{debug});
}
else {
    my $nick = &randomNick($ch);
    if ($nick) {
        &log ("Thinking about to invite '$nick' from '\#$ch' to '\#$bot_chan'") if ($config{debug});
;
        &inviteUser($conn, "$bot_chan", $nick);
    }
}
}

$ch = &randomChannel;
&log ("About to changing topic randomly at '#$ch') if ($config{debug});
if ($opchannels{$ch}) {
    &changeTopic($conn, $ch, &randomPhrase(&randomNick($ch), $arrays{'phrases_questions'}));
}
else {
    &log ("Skipped idea: I'm not op on that channel!");
}

}

#
# ONCE PER MINUTE -timer
#
if ($Seconds_60 == 1) {

    # Leave idle channels, check all channels once per minute
    &log ("Testing idlelimit $config{idlelimit} on channels:") if ($config{debug});
    # hits once per minute

    my $channel = ();
    foreach $channel (keys %onchannels) {
        &log ("'\$channel',") if ($config{debug});

        # don't leave homechannel
        if ($channel eq $bot_chan) {
            &log ("Ignoring homechannel '\$channel'") if ($config{debug});
            next;
        }

        # check other channels
        if ( time() - ($onchannels{$channel}) > $config{idlelimit}) {
            &log ("InIdlelimit on channel '\$channel'. Leaving...") if ($config{debug});
            &leaveChannel($conn, $channel);
        }
    }
}

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```
&log ("-----") ;
}

# while

&log ("*** Bot is about to reboot, please wait!") ;

#
# If we get to this point, it means that something has turned KEEPRUNNING
# to 0.
# We just kind of re-boot ourselves

$KEEPRUNNING = 1; # start running again

&do_quit;

# main loop

Close consolelog
close CONSOLELOG;

#####
#####
```