Chatwolf

Release 0.1.4

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CHAPTER

ONE

INTRO

1.1 Chatwolf

Chatwolf is a small bot to play the popular Werewolf game in a group over a videochat. Until now it only works on Skype, but maybe I will add other chat services.

1.2 Rules of the game

Here you can find the basic rules of the werewolf game in german language: www.werwolfspielen.info

1.3 install the executable distribution (easiest way)

- 1. download the latest distribution from here
- 2. unzip the folder to where you want to have the program It is standalone, so you do not need to install. To unistall simply delete the whole folder.
- 3. do to the folder and run the "chatwolf.exe" file

1.4 install by source

- 1. you need Python3 installed. If you haven't got it install it from here
- 2. open the terminal and install chatwolf from pypi with:

```
pip install chatwolf
```

You can now use it ass a package.

1. start the GUI or use the "start_manualy.py" script, which is in "chatwolf/scripts/".

To start the GUI just enter chatwolf in the terminal.

If this doesn't work, open python.exe and enter:

```
import chatwolf
root = chatwolf.GUI()
root.mainloop()
```

1.5 Quickstart with GUI:

- you need one additional Skype account, wich will be the Game-master-Account. Create one or just ask a friend whos not playing to give you his/her account
- create a group in Skype with your friends and the Game-master-Account.
- log in with the Skype account of the Game-master-Account in the program
- select the groupchat, the number of werewolfs and the roles you want
- start the game and play on Skype. You will get all further commands over Skype from the Game-master-Account

1.6 Tip:

• if you want to use another Videochat service for the Videocalls, you can do so. Just use Skype to talk to the Game-master-Account.

2 Chapter 1. Intro

CHATWOLF PACKAGE

2.1 chatwolf.game module

Type int

```
class chatwolf.game.Game(sk,
                                         chatid,
                                                    num_werewolfs,
                                                                       num\_amor=0,
                                                                                         num\_witch=0,
                                  num_prostitute=0,
                                                               num_visionary=0,
                                                                                             lang='en',
                                  wait_mult=1,
                                                            log\_dir='c:\\users\\nax\\anaconda3\\lib\\site-
                                  packages\\chatwolf/user_data/logs', bkp_dir='c:\\users\\max\\anaconda3\\lib\\site-
                                  packages\\chatwolf/user_data/bkp',
                                                                                       do_debug=True,
                                  do_save_conf=True)
     Bases: object
     This is the main game class, that starts all the other necessary classes to play!
     sk
          logged in Skype Object of the Game-master
               Type skpy.Skype
     chatid
          chatid of the group-chat, where all players and the game-master are in
               Type str
     chat
          the group chat
               Type SkypeChat
     skc
          object of the SkypeCommands class for the group chat
               Type SkypeCommands
     num werewolfs
          number of werewolfs for the game
               Type int
     num amor
          how many times the amor role should be in the game
               Type int
     num_witch
          how many times the witch role should be in the game
```

```
num_prostitute
     how many times the prostitute role should be in the game
         Type int
num_visionary
     how many times the visionary role should be in the game
         Type int
lang
     language to use for the messages of the Game-master
         Type str
wait_mult
     multiplier for the waiting seequences
         Type int
log_dir
     directory path as str for the logging file
         Type str
logfilename
     filepath of the logger file
         Type str
bkp_dir
     directory path as str for the backup file
         Type str
do_debug
     should a debug logging file be created
         Type bool
do_save_conf
     should the actual settings get saved as standards
         Type bool
starttime
     starttime of the game (time when the Game object was created)
         Type datetime
nn
     number of nights played
         Type int
nd
     number of days played
         Type int
log
```

players

the Logger of the game

Type Logger

list of all players of the game

```
Type list of Players
roles
     list of all the roles in the game
         Type list of Roles
bkp()
     Backup the game.
continue_bkp()
     Continue a game that was loaded from a backup-file.
day()
     Do a day phase!
     Does: ask whom to kill this day if game not over, start a night phase by calling Game.night()
dist_roles()
     Distribute the roles to the players.
end()
     End the game!
get_alive()
     Get a list of players that are alive!
         Returns list of players that are alive.
         Return type list of Player
get_alive_string(noone=True)
     Get a list of players that are still alive as string entries with their number!
         Keyword Arguments noone (bool, optional) – True: add "0: noone" to the list; False:
             only players without "0: noone". Defaults to True.
         Returns list with one entry per player, each entry is the number in the alive list + 1 and the name
             of the player
         Return type list of str
get num roles()
     Get a list of the activated roles of the game.
         Returns list of the activated roles of the game
         Return type list of str
get players role(all=True)
     Get a list of all players with their roles!
         Keyword Arguments all (bool, optional) - True: every player of the game is listed;
             False: only the living players are listed. Defaults to True.
         Returns a list with one entry per player with: "name (role)"
         Return type list of str
is end()
     Check if game is over!
         Returns
             True: game is over, on party won; False: Noone won yet, the game is still on
         Return type bool
```

```
static load_bkp(filepath)
     Load a backup-file.
         Parameters filepath (str) – filepath of the backup-file to be loaded
         Returns the old Game object
         Return type Game
msg (filename, line='all')
     Get the coresponding message in the selected language.
         Parameters filename (str) - the name of the message file, e.g. "greeting_all" for the first
              group message, this file needs to exist at least in the "msg/en/" folder
         Keyword Arguments line (str or int, optional) – specify if the whole message
             should be returned ("all") or only a specific line(int). Defaults to "all".
         Returns message in the selected language (self.lang) or in english if there is no translation
         Return type str
night()
     Do a night phase.
     Does: create a Nightaction object as na call every Role.night(na) resume the night if game not over, start
         a day phase by calling game.day()
restart()
     Start a new game with the same settings.
save_config()
start()
     Start the game!
     does: check if players did already accept the game-master as contact send greeting to the group distribute
```

roles by calling Game.dist_roles() inform players of them, by calling Role.greeting() start first day

2.2 chatwolf.gui module

```
class chatwolf.gui.GUI
    Bases: tkinter.Tk

main class for the Graphical User interface
    use GUI().mainloop() to start the GUI and play the game
    check_e_bkp_dir()
    check_e_int (entrywidget)
    check_e_log_dir()
    check_e_wait_mult()
    check_e_werewolfs()
    check_lb_chats()
    check_sk()
    check_start()
    click_about()
```

```
click_b_bkp()
    click_b_login()
    dict_chats()
    fill_chatid()
    get_chatid()
    get_dir(entry_widget)
    list_chatid()
    login_succes()
    start_game()
    start_w_run()
    static w_error(msg)
class chatwolf.gui.TlBkp(root)
    Bases: tkinter.Toplevel
    check_e_bkp_file()
    check_login()
    click_b_login()
    get_bkp_file()
    login_succes()
    restart_bkp()
class chatwolf.gui.TlLog(root)
    Bases: tkinter.Toplevel
    login_skype()
    login_skype_token()
```

2.3 chatwolf.player module

```
chat
     the single chat of the player
         Type SkypeChat
skc
     object of the SkypeCommands class for the single chat of the player
         Type SkypeCommands
name
     Name of the player
         Type str
alive
     True: the player is alive; False: the player is dead
         Type bool
love
     True: the player is in love with someone
         Type bool
lover
     The player (s)he is in love with
         Type Player
role
     The role the player has got for the game
         Type Role
die (answer=True)
     The player dies.
         Keyword Arguments answer (bool, optional) - should the methode return the name
             and the group of the player e.g. True: the methode returns "name (group)". Defaults to
             True.
         Returns "name (group)" of the player or None if the answer argument is False
         Return type str or None
get_name_group()
     Get a string with the name and the group of the player.
         Returns "name (group)" of the player
         Return type str
get_name_role()
     Get a string with the name and role of the player.
         Returns "name (role)" of the player
         Return type str
love_arrow(lover)
     Throw an arrow at this player, so (s)he fells in love.
         Parameters lover (Player) – The player (s)he fells in love with
```

2.4 chatwolf.roles module

```
class chatwolf.roles.Amor(player, game)
     Bases: chatwolf.roles.Villager
     Class for the Amor role.
     name
          the name of the role
              Type str
     group
          the name of the group "Werewolf"/"Villager"
              Type str
     player
          all the players that belong to this role
              Type list of Player
     game
          the main Game object
              Type Game
     chatid
          SkypeChat id of the player(s) chat
              Type str
     game
          the main Game object
              Type Game
     chat
          group/single SkypeChat of the player(s)
              Type SkypeChat
     skc
          object of the SkypeCommands class for this role
              Type SkypeCommands
     greeting()
          inform player about their role and give amor the oportunity to throw his arrow
     name = 'Amor'
class chatwolf.roles.Prostitute(player, game)
     Bases: chatwolf.roles.Villager
     Class for the Prostitute role.
     name
          the name of the role
              Type str
     group
          the name of the group "Werewolf"/"Villager"
              Type str
```

```
player
          all the players that belong to this role
              Type list of Player
     game
          the main Game object
              Type Game
     chatid
          SkypeChat id of the player(s) chat
              Type str
     game
          the main Game object
              Type Game
     chat
          group/single SkypeChat of the player(s)
              Type SkypeChat
     skc
          object of the SkypeCommands class for this role
              Type SkypeCommands
     name = 'Prostitute'
     night (nightactions)
          Do the Prostetutes night phase.
          ask where (s)he wants to stay
              Parameters nightactions (Nightactions) - log of all the actions that happen(d) in the
                  night
class chatwolf.roles.Role(player, game)
     Bases: object
     Main class for the roles.
     name
          the name of the role
              Type str
     group
          the name of the group "Werewolf"/"Villager"
              Type str
     player
          all the players that belong to this role
              Type list of Player
     game
          the main Game object
              Type Game
     chatid
          SkypeChat id of the player(s) chat
```

```
Type str
     game
          the main Game object
              Type Game
     chat
          group/single SkypeChat of the player(s)
              Type SkypeChat
     skc
          object of the SkypeCommands class for this role
              Type SkypeCommands
     get_names()
          Get the names of the players of this role.
              Returns list of all the names of the roles players
              Return type list of str
     greeting()
          Inform players about their role.
     group = 'not set'
     msg_group_night()
          Send a notification to the group chat, which role got called.
     name = 'not set'
     night (nightactions)
          Do the corresponding night phase.
              Parameters nightactions (Nightactions) - log of all the actions that happen(d) in the
                  night
class chatwolf.roles.Villager(player, game)
     Bases: chatwolf.roles.Role
     Class for the Villager role.
     name
          the name of the role
              Type str
     group
          the name of the group "Werewolf"/"Villager"
              Type str
     player
          all the players that belong to this role
              Type list of Player
     game
          the main Game object
              Type Game
     chatid
          SkypeChat id of the player(s) chat
```

```
Type str
     game
          the main Game object
              Type Game
     chat
          group/single SkypeChat of the player(s)
              Type SkypeChat
     skc
          object of the SkypeCommands class for this role
              Type SkypeCommands
     group = 'Villager'
     name = 'Villager'
class chatwolf.roles.Visionary (player, game)
     Bases: chatwolf.roles.Villager
     Class for the Visionary role.
     name
          the name of the role
              Type str
     group
          the name of the group "Werewolf"/"Villager"
              Type str
     player
          all the players that belong to this role
              Type list of Player
     game
          the main Game object
              Type Game
     chatid
          SkypeChat id of the player(s) chat
              Type str
     game
          the main Game object
              Type Game
     chat
          group/single SkypeChat of the player(s)
              Type SkypeChat
     skc
          object of the SkypeCommands class for this role
              Type SkypeCommands
     name = 'Visionary'
```

```
night (nightactions)
          Do the visionarys night phase.
          ask whome (s)he wants to see tell him/her the group of this player
              Parameters nightactions (Nightactions) - log of all the actions that happen(d) in the
                  night
class chatwolf.roles.Werewolf (player, game)
     Bases: chatwolf.roles.Role
     Class of the werewolf role.
     name
          the name of the role
              Type str
     group
          the name of the group "Werewolf"/"Villager"
              Type str
     player
          all the players that belong to this role
              Type list of Player
     game
          the main Game object
              Type Game
     chatid
          SkypeChat id of the player(s) chat
              Type str
     game
          the main Game object
              Type Game
     chat
          group/single SkypeChat of the player(s)
              Type SkypeChat
     skc
          object of the SkypeCommands class for this role
              Type SkypeCommands
     group = 'Werewolf'
     name = 'Werewolf'
     night (nightactions)
          Do the Werewolfs night phase.
          ask whome to kill this night
              Parameters nightactions (Nightactions) - log of all the actions that happen(d) in the
```

```
class chatwolf.roles.Witch(player, game)
     Bases: chatwolf.roles.Villager
     Class for the Witch role.
     name
           the name of the role
               Type str
     group
           the name of the group "Werewolf"/"Villager"
               Type str
     player
           all the players that belong to this role
               Type list of Player
     game
           the main Game object
               Type Game
     chatid
           SkypeChat id of the player(s) chat
               Type str
     game
           the main Game object
               Type Game
     chat
           group/single SkypeChat of the player(s)
               Type SkypeChat
     skc
           object of the SkypeCommands class for this role
               Type SkypeCommands
     elixier
           True: the witchs elixier is still available False: the witchs elixier got already used
               Type bool
     poison
           True: the witchs elixier is still available False: the witchs elixier got already used
               Type bool
     greeting()
           Inform player about their role and initialize the poison and elixier.
     name = 'Witch'
     night (nightactions)
           Do the witchs night phase.
           tell her whos going to die ask if he wants to save, by using her elixier ask if he wants to kill someone, by
           using her poison
```

Parameters nightactions (Nightactions) – log of all the actions that happen(d) in the night

2.5 chatwolf.nightactions module

```
class chatwolf.nightactions.Nightactions(alive, game, noone=True)
     Bases: object
     Class to log all the actions that happen in the night and resume.
           the main Game object
               Type Game
     alive
           list of players that are still alive
               Type list of Players
     alive_string
           list of players, that are still alive as "id: Name" id is place in alive list + 1
               Type list of str
     lskill
           list of one bool for every player if (s)he got killed in the night e.g. lskill[1] says if player[1] got killed
               Type list of bool
     1stogether
           list of players ids that stayed together during the night. always as tuple of two ids, first one is the player
           who stays at home
               Type list of tuple of int
     finish_night()
           Finish the night and get the name(group) of the plaers that died.
               Returns A list of all the players that died this night as name(group)
               Return type list of str
     get_killed_id()
           Get the id of the killed player.
               Returns id of the killed player
               Return type int
     kill (player_number)
           Kill a player.
               Parameters player_number ([type]) - number of the player in the alive_string
     save (player_number)
           Save a player.
               Parameters player_number ([type]) - number of the player in the alive_string
     together (player_home_number, player_visit_number)
```

Parameters

Set 2 people together for this night.

- player_home_number (int) the number in the alive_string of the player, who's at home
- player_visit_number (int) the number in the alive_string of the player, who's visiting the other

2.6 chatwolf.skypecommands module

class chatwolf.skypecommands.SkypeCommands (chatid,

game,

tokenFile='c:\\users\\max\\anaconda3\\\ib\\site-packages\\chatwolf/user_data/temp/token.txt')

Bases: skpy.main.SkypeEventLoop

Class to ask players for answers in Skype.

chatid

chatid of the corresponding chat

Type str

game

the main Game object

Type Game

chat

the group chat

Type SkypeChat

ask (command, alive=[None], num_ids=1, min_id=0)

Ask for an answer in the corresponding chat.

Parameters command (str) – command to ask for, e.g. "kill" for "kill: number": return int or "bool" for "yes/no": return bool or "name" for "name:": retrun str

Keyword Arguments

- alive (list of Player, optional) all the alive Players that are at disponible . Defaults to [None].
- num_ids (int, optional) number of ids that must be asked for and returned.

 Defaults to 1.
- min_id (int, optional) the smallest id possible to choose from, basically if theire is an id 0 for "noone" disponible. Defaults to 0.

Returns

either the number(s) of the corresponding player(s) (alive[return-1]) or a bool, depending on the command or a name(str), if command = "name"

Return type int or bool or str

get_bool (msg)

Check if the message received was a "yes/no" answer and return it.

Parameters msg(str) – the message text someone send to the chat

Returns

the answer to the question "yes":True; "no":False or None if the message wasn't a correct answer

Return type bool or None

get_id (msg, command, alive=[None], num_ids=1, min_id=0)

Check the message for an id and return it if the message was right.

Parameters

- msg(str) the message text someone send to the chat
- **command** (str) command that was asked for, e.g. "kill" for "kill: number"

Keyword Arguments

- alive (list of Player, optional) all the alive Players that are at disponible . Defaults to [None].
- num_ids (int, optional) number of ids that must be asked for and returned. Defaults to 1.
- min_id (int, optional) the smallest id possible to choose from, basically if theire is an id 0 for "noone" disponible. Defaults to 0.

Returns

the number(s) of the corresponding player(s) (alive[return-1]) or None if the message wasn't a correct answer

Return type int or None

get_name (msg)

Get the name the player sended.

Parameters msg(str) – the message text someone send to the chat

Returns

the Name entered or None if the message was not a correct answer

Return type str or None

CHAPTER

THREE

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3.1 own

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3.2 dependencies

3.2.1 skpy-package:

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3.2.2 Icon:

source of icon: https://icons8.com/icons/set/werewolf

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