
Fralysis

Release V1.015

Alex Hickes

May 07, 2019

CONTENTS:

1	Indices and tables	1
2	Fralysis.AnalyseDream	3
3	Fralysis.MessageTypeAnalysis.MessageTypeAnalysis	5
4	Fralysis.AnalyseDream.AnalyseDream	7
5	Fralysis.Client.Client	9
6	Fralysis.Conversation.Conversation	11
7	Fralysis.Dream.Dream	13
8	Fralysis.DreamValidator.DreamValidator	15
9	Fralysis.InputOutput.InputOutput	17
10	Fralysis.Interview.Interview	19
11	Fralysis.MessageTypeAnalysis.MessageTypeAnalysis	21
12	Fralysis.SpacySetup.SpacySetup	23
13	Fralysis.Therapist.Therapist	25
14	Fralysis.GUI.HomePageScreen	27
15	Fralysis.GUI.CustButton	29
16	Fralysis.GUI.DreamDictScreen	31
17	Fralysis.GUI.DreamDict	33
18	Fralysis.GUI.ScreenManagement	35
19	Fralysis.GUI.InputOutputGui	37
20	Fralysis.GUI.MainApp	39
21	Fralysis.start_therapy_session.main	41
	Python Module Index	43

INDICES AND TABLES

- `genindex`
- `modindex`
- `search`

FRALYSIS.ANALYSEDREAM

```
class Fralysis.AnalyseDream.AnalyseDream (dream: Fralysis.Dream.Dream = None)
```

Class which takes a user's message and classifies dream features

```
opinions (feedback: spacy.tokens.doc.Doc)
```

Take a users message and get features

Parameters feedback –

Returns

```
set_subject_of_dream ()
```

Set a subject of a dream

Returns

```
topic_rating_dirobj_description_of (tokens: List[spacy.tokens.token.Token])
```

Identify a direct object of a dream. Attach a symbol. Provide a description

Parameters tokens –

Returns

```
Fralysis.AnalyseDream.combine_ratings (tokens)
```

Apply any modifying tokens to original adjective rating

Parameters tokens –

Returns

```
Fralysis.AnalyseDream.essential_tokens (tokens)
```

Return a list of essential tokens

Parameters tokens –

Returns

```
Fralysis.AnalyseDream.is_essential (token: spacy.tokens.token.Token) → bool
```

Determine whether a token has a topic or rating, or modifies the rating

Parameters token –

Returns

```
Fralysis.AnalyseDream.match_dreams (dreams: [<class 'Fralysis.Dream.Dream'>])
```

Apply any modifying tokens to original adjective rating

Parameters dreams –

Returns

FRALYSIS.MESSAGETYPEANALYSIS.MESSAGETYPEANALYSIS

```
class Fralysis.MessageTypeAnalysis.MessageTypeAnalysis (message: str = ")
```

Class to identify whether a users input contains a name, dream or something irrelevant

```
check_token (sentence, feature=None)
```

Check if required tokens present

Parameters

- **sentence** –
- **feature** –

Returns list of valid tokens

```
is_dream (feature=None)
```

Check if user input contains features of a dream

Parameters **feature** –

Return SpaCy Doc if user message contains dream features

```
is_name ()
```

Check if user input contains their name

```
is_option ()
```

Check if user input contains a pre-analysis option

FRALYSIS.ANALYSEDREAM.ANALYSEDREAM

class Fralysis.AnalyseDream.**AnalyseDream** (*dream: Fralysis.Dream.Dream = None*)

Class which takes a user's message and classifies dream features

opinions (*feedback: spacy.tokens.doc.Doc*)

Take a users message and get features

Parameters feedback –

Returns

set_subject_of_dream ()

Set a subject of a dream

Returns

topic_rating_dirobj_description_of (*tokens: List[spacy.tokens.token.Token]*)

Identify a direct object of a dream. Attach a symbol. Provide a description

Parameters tokens –

Returns

FRALYSIS.CLIENT.CLIENT

```
class Fralysis.Client.Client (name: str = "")
    Class to represent a therapists client

    add_dream (dream: Fralysis.Dream.Dream = None)
        Append a client's dream

        Parameters dream –

    get_dream (index: int = 0) → Fralysis.Dream.Dream
        Retrieve a client's dream

        Parameters index –

        Returns dream

    get_dreams ()
        Retrieve a client's list of dreams

        Returns dreams

    get_name () → str
        Get a clients identifier (their name)

        Returns client's name

    set_name (name: str)
        Set a clients name (pseudonym, which is a proper noun)

        Parameters name –
```


FRALYSIS.CONVERSATION.CONVERSATION

```

class Fralysis.Conversation.Conversation (in_out: Fralysis.InputOutput.InputOutput)
    Handles the chat dynamic with user

    get_analysis (dream: Fralysis.Dream.Dream)
        Get analysis of user's dream

        Returns analysis of dream

    get_combined_analysis (matched_topics: Fralysis.Constants.Topic, matched_rating: Fralysis.Constants.Rating)
        Get comparison of user's dreams

        Parameters
            • matched_topics –
            • matched_rating –

        Returns success of analysis

    get_dream (post_opt: Fralysis.Constants.PostOption = None)
        Sends messages to user to get details on their dream. Details involve the subject, topic and rating of the dream.

        Parameters post_opt (PostOption) – whether they are providing their first dream, a further dream, or more information on a dream

        Returns client's dream

    get_name ()
        Sends messages to user to get their name

        Returns client's name

    get_post_analysis_option ()
        Get options from user

        Returns user's option

    get_rating ()
        Get sentiment of user's dream

        Returns rating of dream

    get_subject ()
        Get subject of user's dream

        Returns subject of dream

    get_topic ()
        Get symbol of user's dream

```

Returns topic of dream

FRALYSIS.DREAM.DREAM

```
class Fralysis.Dream.Dream(message: spacy.tokens.doc.Doc = None)
    Class to represent and hold information on a users dream

    add_description (desc: str)
        Describe the dream

        Parameters string (description) –

    add_message (msg: spacy.tokens.doc.Doc)
        Add message to describe dream

        Parameters msg –

    add_rating (rating: Fralysis.Constants.Rating)
        Add the sentiment of a dream

        Parameters Rating –

    add_topic (topic: Fralysis.Constants.Topic)
        Add symbolisms of a dream

        Parameters Topic –

    get_descriptions ()
        Get the description of a dream

        Return description

    get_direct_object ()
        Get the direct object of the dream

        Returns dream's direct object

    get_latest_message ()
        Get the latest message provided from the user about this dream :return: SpaCy Doc

    get_messages ()
        Get list of messages used to describe dream

        Returns list of messages

    get_ratings ()
        Get the sentiment of a dream

        Return sentiment

    get_subject ()
        Get subject of dream

        Returns dream's subject
```

get_topics()

Get the symbolism of a dream

Return list of symbols

remove_duplicates()

Remove duplicates in the dream

set_direct_object(*direct_object*)

Set the direct object of a dream

Parameters **object** **string**(*direct*) –

set_subject(*subject*)

Set the subject of a dream

Parameters **Subject** –

FRALYSIS.DREAMVALIDATOR.DREAMVALIDATOR

```
class Fralysis.DreamValidator.DreamValidator (dream: Fralysis.Dream.Dream)  
    Class to validate whether a dream has all required features for interpretation  
  
    has_rating ()  
        Check if dream has a sentiment  
        Returns sentiment found  
  
    has_subject ()  
        Check if dream has a subject  
        Returns subject found  
  
    has_topic ()  
        Check if dream has a symbol  
        Returns symbol found  
  
    is_valid ()  
        Checks whether there are outstanding features in dream  
        Returns dream validity  
  
    outstanding_features ()  
        Get a list of features missing from the dream  
        Returns list of missing features
```


FRALYSIS.INPUTOUTPUT.INPUTOUTPUT

```
class Fralysis.InputOutput.InputOutput (interface_type: str = 'simple')
```

Class to handle input and output

```
read_message (prompt='analysis>')
```

Read a users message

Parameters **prompt** –

Returns user's message

```
write_message (message, prompt='analysis>')
```

Write chatbot and users message to inteface

Parameters

- **message** –

- **prompt** –

FRALYSIS.INTERVIEW.INTERVIEW

```
class Fralysis.Interview.Interview(client: Fralysis.Client.Client, in_out: Fralysis.InputOutput.InputOutput)  
    Class to Represents therapist's thought process and required proceedure to get to next checkpoint  
  
    ask_for_dream()  
        Retrieves complete dream from user  
  
    ask_for_name()  
        Retrieves name from user  
  
    give_analysis()  
        Gives feedback to user about their dreams  
  
    provide_options()  
        Retrieves pre-analysis option from user
```


FRALYSIS.MESSAGETYPEANALYSIS.MESSAGETYPEANALYSIS

```
class Fralysis.MessageTypeAnalysis.MessageTypeAnalysis(message: str = "")
```

Class to identify whether a users input contains a name, dream or something irrelevant

```
check_token(sentence, feature=None)
```

Check if required tokens present

Parameters

- **sentence** –
- **feature** –

Returns list of valid tokens

```
is_dream(feature=None)
```

Check if user input contains features of a dream

Parameters **feature** –

Return SpaCy Doc if user message contains dream features

```
is_name()
```

Check if user input contains their name

```
is_option()
```

Check if user input contains a pre-analysis option

FRALYSIS.SPACYSETUP.SPACYSETUP

```
class Fralysis.SpacySetup.SpacySetup
    Sets up SpaCy's nlp language pipeline
    get_nlp()
        Get nlp object
```


FRALYSIS.THERAPIST.THERAPIST

```
class Fralysis.Therapist.Therapist (in_out: Fralysis.InputOutput.InputOutput)  
    Class to represent a therapist  
  
    finish_therapy ()  
        End therapy session  
  
    start_therapy ()  
        Start therapy session
```


FRALYSIS.GUI.HOMEPAGESCREEN

Class to show Fralysis homepage screen

`Fralysis.GUI.HomePageScreen.proxy_ref`

Return a proxy reference to the widget, i.e. without creating a reference to the widget. See [weakref.proxy](#) for more information.

New in version 1.7.2.

FRALYSIS.GUI.CUSTBUTTON

Class to define custom rounded buttons

`Fralysis.GUI.CustButton.proxy_ref`

Return a proxy reference to the widget, i.e. without creating a reference to the widget. See [weakref.proxy](#) for more information.

New in version 1.7.2.

FRALYSIS.GUI.DREAMDICTSCREEN

Class to show the Dream model screen

`Fralysis.GUI.DreamDictScreen.proxy_ref`

Return a proxy reference to the widget, i.e. without creating a reference to the widget. See [weakref.proxy](#) for more information.

New in version 1.7.2.

Class to represent a message

`Fralysis.GUI.DreamDict.proxy_ref`

Return a proxy reference to the widget, i.e. without creating a reference to the widget. See [weakref.proxy](#) for more information.

New in version 1.7.2.

FRALYSIS.GUI.DREAMDICT

Class to show the chatbot screen

`Fralysis.GUI.ChatPageScreen.proxy_ref`

Return a proxy reference to the widget, i.e. without creating a reference to the widget. See [weakref.proxy](#) for more information.

New in version 1.7.2.

FRALYSIS.GUI.SCREENMANAGEMENT

Class to allow KIVY to manage screens

`Fralysis.GUI.ScreenManagement.proxy_ref`

Return a proxy reference to the widget, i.e. without creating a reference to the widget. See [weakref.proxy](#) for more information.

New in version 1.7.2.

FRALYSIS.GUI.INPUTOUTPUTGUI

Thread to parse data between view and controller

`Fralysis.GUI.InputOutputGui.daemon`

A boolean value indicating whether this thread is a daemon thread.

This must be set before `start()` is called, otherwise `RuntimeError` is raised. Its initial value is inherited from the creating thread; the main thread is not a daemon thread and therefore all threads created in the main thread default to `daemon = False`.

The entire Python program exits when no alive non-daemon threads are left.

`Fralysis.GUI.InputOutputGui.ident`

Thread identifier of this thread or `None` if it has not been started.

This is a nonzero integer. See the `get_ident()` function. Thread identifiers may be recycled when a thread exits and another thread is created. The identifier is available even after the thread has exited.

`Fralysis.GUI.InputOutputGui.name`

A string used for identification purposes only.

It has no semantics. Multiple threads may be given the same name. The initial name is set by the constructor.

FRALYSIS.GUI.MAINAPP

Main method to initialise Graphical User Interface

`Fralysis.GUI.MainApp.directory`

New in version 1.0.7.

Return the directory where the application lives.

`Fralysis.GUI.MainApp.name`

New in version 1.0.7.

Return the name of the application based on the class name.

`Fralysis.GUI.MainApp.proxy_ref`

Default implementation of `proxy_ref`, returns self. .. versionadded:: 1.9.0

`Fralysis.GUI.MainApp.root_window`

New in version 1.9.0.

Returns the root window instance used by `run()`.

`Fralysis.GUI.MainApp.user_data_dir`

New in version 1.7.0.

Returns the path to the directory in the users file system which the application can use to store additional data.

Different platforms have different conventions with regards to where the user can store data such as preferences, saved games and settings. This function implements these conventions. The `<app_name>` directory is created when the property is called, unless it already exists.

On iOS, `~/Documents/<app_name>` is returned (which is inside the app's sandbox).

On Android, `/sdcard/<app_name>` is returned.

On Windows, `%APPDATA%/<app_name>` is returned.

On OS X, `~/Library/Application Support/<app_name>` is returned.

On Linux, `$XDG_CONFIG_HOME/<app_name>` is returned.

FRALYSIS.START_THERAPY_SESSION.MAIN

> python -m Fralysis.GUI > pytest

Main method to run terminal interface

param argv

return

PYTHON MODULE INDEX

f

Fralysis.AnalyseDream, 3
Fralysis.GUI.ChatPageScreen, 33
Fralysis.GUI.CustButton, 29
Fralysis.GUI.DreamDict, 31
Fralysis.GUI.DreamDictScreen, 31
Fralysis.GUI.HomePageScreen, 27
Fralysis.GUI.InputOutputGui, 37
Fralysis.GUI.MainApp, 39
Fralysis.GUI.ScreenManagement, 35
Fralysis.start_therapy_session.main, 41

INDEX

add_description()Fralysis.Dream.Dream method, 13
 add_dream()Fralysis.Client.Client method, 9
 add_message()Fralysis.Dream.Dream method, 13
 add_rating()Fralysis.Dream.Dream method, 13
 add_topic()Fralysis.Dream.Dream method, 13
 AnalyseDreamclass in Fralysis.AnalyseDream, 3, 7
 ask_for_dream()Fralysis.Interview.Interview method, 19
 ask_for_name()Fralysis.Interview.Interview method, 19

 check_token()Fralysis.MessageTypeAnalysis.MessageTypeAnalysis method, 5, 21
 Clientclass in Fralysis.Client, 9
 combine_ratings()in module Fralysis.AnalyseDream, 3
 Conversationclass in Fralysis.Conversation, 11

 daemonin module Fralysis.GUI.InputOutputGui, 37
 directoryin module Fralysis.GUI.MainApp, 39
 Dreamclass in Fralysis.Dream, 13
 DreamValidatorclass in Fralysis.DreamValidator, 15

 essential_tokens()in module Fralysis.AnalyseDream, 3

 finish_therapy()Fralysis.Therapist.Therapist method, 25
 Fralysis.AnalyseDreammodule, 3
 Fralysis.GUI.ChatPageScreenmodule, 33
 Fralysis.GUI.CustButtonmodule, 29
 Fralysis.GUI.DreamDictmodule, 31
 Fralysis.GUI.DreamDictScreenmodule, 31
 Fralysis.GUI.HomePageScreenmodule, 27
 Fralysis.GUI.InputOutputGuimodule, 37
 Fralysis.GUI.MainAppmodule, 39
 Fralysis.GUI.ScreenManagementmodule, 35
 Fralysis.start_therapy_session.mainmodule, 41

 get_analysis()Fralysis.Conversation.Conversation method, 11
 get_combined_analysis()Fralysis.Conversation.Conversation method, 11
 get_descriptions()Fralysis.Dream.Dream method, 13
 get_direct_object()Fralysis.Dream.Dream method, 13
 get_dream()Fralysis.Client.Client method, 9
 get_dream()Fralysis.Conversation.Conversation method, 11

 get_dreams()Fralysis.Client.Client method, 9
 get_latest_message()Fralysis.Dream.Dream method, 13
 get_messages()Fralysis.Dream.Dream method, 13
 get_name()Fralysis.Client.Client method, 9
 get_name()Fralysis.Conversation.Conversation method, 11
 get_nlp()Fralysis.SpacySetup.SpacySetup method, 23
 get_post_analysis_option()Fralysis.Conversation.Conversation method, 11
 get_rating()Fralysis.Conversation.Conversation method, 11
 get_ratings()Fralysis.Dream.Dream method, 13
 get_subject()Fralysis.Conversation.Conversation method, 11
 get_subject()Fralysis.Dream.Dream method, 13
 get_topic()Fralysis.Conversation.Conversation method, 11
 get_topics()Fralysis.Dream.Dream method, 13
 give_analysis()Fralysis.Interview.Interview method, 19

 has_rating()Fralysis.DreamValidator.DreamValidator method, 15
 has_subject()Fralysis.DreamValidator.DreamValidator method, 15
 has_topic()Fralysis.DreamValidator.DreamValidator method, 15

 identin module Fralysis.GUI.InputOutputGui, 37
 InputOutputclass in Fralysis.InputOutput, 17
 Interviewclass in Fralysis.Interview, 19
 is_dream()Fralysis.MessageTypeAnalysis.MessageTypeAnalysis method, 5, 21
 is_essential()in module Fralysis.AnalyseDream, 3
 is_name()Fralysis.MessageTypeAnalysis.MessageTypeAnalysis method, 5, 21
 is_option()Fralysis.MessageTypeAnalysis.MessageTypeAnalysis method, 5, 21
 is_valid()Fralysis.DreamValidator.DreamValidator method, 15

 match_dreams()in module Fralysis.AnalyseDream, 3
 MessageTypeAnalysisclass in Fralysis.MessageTypeAnalysis, 5, 21

namein module Fralysis.GUI.InputOutputGui, 37
namein module Fralysis.GUI.MainApp, 39

opinions()Fralysis.AnalyseDream.AnalyseDream
method, 3, 7

outstanding_features()Fralysis.DreamValidator.DreamValidator
method, 15

provide_options()Fralysis.Interview.Interview method,
19

proxy_refin module Fralysis.GUI.ChatPageScreen, 33
proxy_refin module Fralysis.GUI.CustButton, 29
proxy_refin module Fralysis.GUI.DreamDict, 31
proxy_refin module Fralysis.GUI.DreamDictScreen, 31
proxy_refin module Fralysis.GUI.HomePageScreen, 27
proxy_refin module Fralysis.GUI.MainApp, 39
proxy_refin module Fralysis.GUI.ScreenManagement, 35

read_message()Fralysis.InputOutput.InputOutput
method, 17

remove_duplicates()Fralysis.Dream.Dream method, 14

root_windowin module Fralysis.GUI.MainApp, 39

set_direct_object()Fralysis.Dream.Dream method, 14
set_name()Fralysis.Client.Client method, 9
set_subject()Fralysis.Dream.Dream method, 14
set_subject_of_dream()Fralysis.AnalyseDream.AnalyseDream
method, 3, 7

SpacySetupclass in Fralysis.SpacySetup, 23

start_therapy()Fralysis.Therapist.Therapist method, 25

Therapistclass in Fralysis.Therapist, 25

topic_rating_dirobj_description_of()Fralysis.AnalyseDream.AnalyseDream
method, 3, 7

user_data_dirin module Fralysis.GUI.MainApp, 39

write_message()Fralysis.InputOutput.InputOutput
method, 17