
akinator.py

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Tom-the-Bomb

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AKINATOR PACKAGE

1.1 Module contents

Python bindings for `akinator-rs`, a wrapper around the undocumented `akinator` API designed for easy implementation of an `akinator` game in code, providing a simple and easy to use API.

class `akinator.AsyncAkinator`(*, *theme=None, language=None, child_mode=None*)

Bases: `object`

Represents an async `akinator` game

Note: All attributes and methods are the same as the blocking `Akinator` class but instead all methods should be awaited

Parameters are also set as properties which also have a setter to change the values if necessary in the future

Parameters

- **theme** (Optional[`Theme`]) – the theme of the `akinator` game, would be one of `Characters`, `Animals` or `Objects` pass in using an answer enum, using the `from_str` classmethod if necessary, defaults to `Characters`
- **language** (Optional[`Language`]) – the language for the `akinator` game, refer to the `Language` enum, defaults to `English`
- **child_mode** (Optional[`bool`]) – when set to `True`, NSFW content will not be provided, defaults to `False`

answer(*answer*)

This function is a `coroutine`.

Answers the `akinator`'s current question with the provided `answer` and returns the next question

Parameters

answer (`Answer`) – the answer to the current question

Return type

Optional[`str`]

Raises

- **RuntimeError** – Something internal went wrong, this could be in this case: - missing required data to continue - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)

- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

back()

This function is a *coroutine*.

Goes back a question and returns said (current) question

Return type

Optional[*str*]

Raises

- **CantGoBackAnyFurther** – Could not go back anymore, likely that we are already on the first question
- **RuntimeError** – Something internal went wrong, this could be in this case: - missing required data to continue - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)
- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

child_mode

whether child_mode is on or off for the akinator game

Type

bool

first_guess

the akinator's best guess

Type

Optional[*Guess*]

guesses

a list of all the akinator's potential guesses, ordered by likeliness

Type

List[*Guess*]

language

the language of the akinator game

Type

Language

progression

the progression of the akinator

Type

float

question

the current question of the akinator game

Type

Optional[*str*]

start_game()

This function is a *coroutine*.

Starts the akinator game and returns the first question

Return type

Optional[[str](#)]

Raises

- **RuntimeError** – Something internal went wrong, this could be in this case: - getting the starting timestamp failed - the data required to start the game such as the server url, frontaddr or game UID could not be found - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)
- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

step

a counter for the question # the akinator is on currently

Type

[int](#)

theme

the theme of the akinator game

Type

[Theme](#)

win()

This function is a *coroutine*.

Tells the akinator to end the game and make its guess should be called once when the **progression** is high enough such as ≥ 80.0 and returns its best guess

Return type

Optional[[Guess](#)]

Raises

- **RuntimeError** – Something internal went wrong, this could be in this case: - missing required data to continue - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)
- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

class `akinator.Akinator(*, theme=None, language=None, child_mode=None)`

Bases: [object](#)

Represents an akinator game

Parameters are also set as properties which also have a setter to change the values if necessary in the future

Parameters

- **theme** (Optional[[Theme](#)]) – the theme of the akinator game, would be one of Characters, Animals or Objects pass in using an answer enum, using the `from_str` classmethod if necessary, defaults to Characters
- **language** (Optional[[Language](#)]) – the language for the akinator game, refer to the Language enum, defaults to English
- **child_mode** (Optional[[bool](#)]) – when set to True, NSFW content will not be provided, defaults to False

answer(*answer*)

Answers the akinator's current question with the provided answer and returns the next question

Parameters

answer ([Answer](#)) – the answer to the current question

Return type

Optional[[str](#)]

Raises

- **RuntimeError** – Something internal went wrong, this could be in this case: - missing required data to continue - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)
- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

back()

Goes back a question and returns said (current) question

Return type

Optional[[str](#)]

Raises

- **CantGoBackAnyFurther** – Could not go back anymore, likely that we are already on the first question
- **RuntimeError** – Something internal went wrong, this could be in this case: - missing required data to continue - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)
- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

child_mode

whether child_mode is on or off for the akinator game

Type

[bool](#)

first_guess

the akinator's best guess

Type

Optional[[Guess](#)]

guesses

a list of all the akinator's potential guesses, ordered

Type

List[*Guess*]

language

the language of the akinator game

Type

Language

progression

the progression of the akinator

Type

float

question

the current question of the akinator game

Type

Optional[str]

start_game()

Starts the akinator game and returns the first question

Return type

Optional[str]

Raises

- **RuntimeError** – Something internal went wrong, this could be in this case: - getting the starting timestamp failed - the data required to start the game such as the server url, frontaddr or game UID could not be found - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)
- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

step

a counter for the question # the akinator is on currently

Type

int

theme

the theme of the akinator game

Type

Theme

win()

Tells the akinator to end the game and make its guess should be called once when the progression is high enough such as ≥ 80.0 and returns its best guess

Return type

Optional[*Guess*]

Raises

- **RuntimeError** – Something internal went wrong, this could be in this case: - missing required data to continue - request error: any sort of error when making the HTTP requests - updating the internal data fields errored (either a field was missing or was of the wrong type)
- **ValueError** – Could not parse the API returned JSON properly (invalid, missing fields etc.)
- **Other api errors** – Refer to the exceptions at the bottom of the page

class `akinator.Guess`

Bases: `object`

a model class representing an akinator's guess not meant for the user to construct, but is returned in various properties and methods in the `Akinator` class

`absolute_picture_path`

an absolute url to the picture of the guess's entity

Type

`str`

`award_id`

award id

Type

`str`

`confidence`

the accuracy / confidence of the akinator that this guess is correct

Type

`float`

`description`

a brief description of the specific guess's entity

Type

`str`

`flag_photo`

flag photo

Type

`int`

`id`

the unique ID of the specific guess's entity

Type

`str`

`name`

the common name of the specific guess's entity

Type

`str`

picture_path

a relative path to a picture of the guess's entity

Type

`str`

ranking

the rank of the specific guess's entity

Type

`str`

class `akinator.Theme`

Bases: `object`

An enum class representing the theme of an akinator game

This is meant for the user to use to pass into the Akinator constructor, or to set the theme property

Animals = `<Theme theme="Animals">`

Characters = `<Theme theme="Characters">`

Objects = `<Theme theme="Objects">`

from_str(*theme*)

a classmethod to return a `Theme` enum variant parsing from a `str` useful when you have external user input

Parameters

- **theme** (`str`) – the string representation of the theme to parse from
- **::** (*.. note*) – if an invalid string for the theme is given, no error will be raised instead it will just fallback to `Theme.Characters` as the default

class `akinator.Answer`

Bases: `object`

An enum class representing an answer given to the akinator

This is meant for the user to use to pass into methods such as `Akinator.answer`

Idk = `<Answer answer="Idk">`

No = `<Answer answer="No">`

Probably = `<Answer answer="Probably">`

ProbablyNot = `<Answer answer="ProbablyNot">`

Yes = `<Answer answer="Yes">`

from_str(*answer*)

a classmethod to return an `Answer` enum variant parsing from a `str` useful when you have external user input

aliases for answer variants are also accepted (trims ws & case-insensitive):

- `yes | y | 0` -> `Answer.Yes`
- `no | n | 1` -> `Answer.No`
- `i don(')?t know | idk | 2` -> `Answer.Idk`

- probably | p | 3 -> Answer.Probably
- probably not | pn | 4 -> Answer.ProbablyNot

Parameters

answer (*str*) – the string representation of the answer to parse from

Raises

InvalidAnswer – raised if the provided answer cannot match one of the above (is invalid)

class akinator.Language

Bases: *object*

An enum class representing the language of the akinator game

This is meant for the user to use to pass into the Akinator constructor, or to set the language property

Arabic = <Language lang="Arabic">

Chinese = <Language lang="Chinese">

Dutch = <Language lang="Dutch">

English = <Language lang="English">

French = <Language lang="French">

German = <Language lang="German">

Hebrew = <Language lang="Hebrew">

Indonesian = <Language lang="Indonesian">

Italian = <Language lang="Italian">

Japanese = <Language lang="Japanese">

Korean = <Language lang="Korean">

Polish = <Language lang="Polish">

Portugese = <Language lang="Portugese">

Russian = <Language lang="Russian">

Spanish = <Language lang="Spanish">

Turkish = <Language lang="Turkish">

from_str(*language*)

a classmethod to return a *Language* enum variant parsing from a *str* useful when you have external user input

Short forms such as en or fr are also accepted along with the full name

Parameters

language (*str*) – the string representation of the language to parse from

Raises

InvalidLanguage – Raised if the given string is of an invalid language

exception `akinator.CantGoBackAnyFurther`

Bases: `Exception`

Raised when the akinator is already on the 1st question / there are no more questions to go back on

exception `akinator.InvalidAnswer`

Bases: `Exception`

Raised when an invalid answer string is used when instantiating a Language enum from str

exception `akinator.InvalidLanguage`

Bases: `Exception`

Raised when an invalid language string is used when instantiating a Language enum from str

exception `akinator.ConnectionError`

Bases: `Exception`

Raised when we fail the connect to the akinator servers for whatever reason

exception `akinator.NoMoreQuestions`

Bases: `Exception`

Raised when there are no more questions the akinator can offer

exception `akinator.TimeoutError`

Bases: `Exception`

Raised when the akinator session timed out waiting for a response

exception `akinator.TechnicalError`

Bases: `Exception`

Raised when there is a technical internal error with the akinator servers

exception `akinator.ServersDown`

Bases: `Exception`

Raised when the akinator servers in the requested region are down

EXAMPLES

Installation

wheels are prebuilt and uploaded to pypi, so if your platform is supported, simply doing

```
$ py -m pip install akinator.py
```

will do it

You can also manually build from source, but that requires rust to be installed.

importing

```
import akinator
```

Full sync example

Here is a full working example of using the sync akinator class

```
from akinator import (
    CantGoBackAnyFurther,
    InvalidAnswer,
    Akinator,
    Answer,
    Theme,
)

def test() -> None:
    # create akinator instance
    aki = Akinator(
        child_mode=True,
        theme=Theme.from_str('characters'),
    )

    # start the game, and get the first question
    first_question = aki.start_game()
    # recieve console input for first question
    answer = input(f'{first_question}: ')

    # keep asking and recieving answers while akinator's progression is <=80
    while aki.progression <= 80:
        if answer == 'back':
            # go back a question if response is "back"
            try:
```

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```

        aki.back()
        print('went back 1 question')
    except CantGoBackAnyFurther:
        print('cannot go back any further!')
    else:
        try:
            # parse to an answer enum variant
            answer = Answer.from_str(answer)
        except InvalidAnswer:
            print('Invalid answer')
        else:
            # answer current question
            aki.answer(answer)

    # recieving console input for next question
    answer = input(f'{aki.question}: ')

    # tell akinator to end the game and make its guess
    first_guess = aki.win()

    if first_guess:
        # print out its first guess's details
        print('name:', first_guess.name)
        print('desc:', first_guess.description)
        print('image:', first_guess.absolute_picture_path)

if __name__ == '__main__':
    test()

```

Full async example

Here is a full working example of using the async akinator class with asyncio

(pretty much the same except all methods are awaited)

```

import asyncio

from akinator import (
    CantGoBackAnyFurther,
    InvalidAnswer,
    AsyncAkinator,
    Answer,
    Theme,
)

async def test() -> None:
    # create akinator instance
    aki = AsyncAkinator(
        child_mode=True,
        theme=Theme.from_str('characters'),
    )

    # start the game, and get the first question

```

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```

first_question = await aki.start_game()
# recieve console input for first question
answer = input(f'{first_question}: ')

# keep asking and recieving answers while akinator's progression is <=80
while aki.progression <= 80:
    if answer == 'back':
        # go back a question if response is "back"
        try:
            await aki.back()
            print('went back 1 question')
        except CantGoBackAnyFurther:
            print('cannot go back any further!')
    else:
        try:
            # parse to an answer enum variant
            answer = Answer.from_str(answer)
        except InvalidAnswer:
            print('Invalid answer')
        else:
            # answer current question
            await aki.answer(answer)

    # recieving console input for next question
    answer = input(f'{aki.question}: ')

# tell akinator to end the game and make its guess
first_guess = await aki.win()

if first_guess:
    # print out its first guess's details
    print('name:', first_guess.name)
    print('desc:', first_guess.description)
    print('image:', first_guess.absolute_picture_path)

if __name__ == '__main__':
    asyncio.run(test())

```


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