
gramhopper Documentation

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1.1 Event Streak Trigger

1.1.1 event_streak

```
class EventStreakTrigger (streak_timeout_sec: int, event_count:  
                           int, counting_event_trigger: gramhop-  
                           per.triggers.basic_triggers.BaseTrigger, resetting_event_trigger: Op-  
                           tional[gramhopper.triggers.basic_triggers.BaseTrigger] = None)
```

Event-streak trigger. This is used to trigger a rule in a case of a streak of events, for example when a certain phrase is written a few times in a row.

This trigger gets a defined trigger as a “counting” event and optionally another one as a “resetting” event (to stop counting). It also gets the count of events to be considered a streak, and the timeout of the streak (the allowed time period between the first event and the last event in the streak).

```
__init__ (streak_timeout_sec: int, event_count: int, counting_event_trigger:  
          gramhopper.triggers.basic_triggers.BaseTrigger, resetting_event_trigger: Op-  
          tional[gramhopper.triggers.basic_triggers.BaseTrigger] = None)
```

Constructs the trigger.

Parameters

- **streak_timeout_sec** – The allowed time period between the first event and the last event in the streak
- **event_count** – The count of events to be considered a streak
- **counting_event_trigger** – A trigger to identify an event that counts towards the streak
- **resetting_event_trigger** – A trigger to identify an event that resets the streak

1.2 Filter Triggers

Filter triggers will be documented soon, after a small refactor with them.

1.3 Text Triggers

class TextTriggers

Text-based triggers.

has_exact_word = <class 'gramhopper.triggers.text_triggers._HasExactWordTrigger'>

A word trigger. See more in [_HasExactWordTrigger](#).

has_substring = <class 'gramhopper.triggers.text_triggers._HasSubstringTrigger'>

A substring trigger. See more in [_HasSubstringTrigger](#).

regex = <class 'gramhopper.triggers.text_triggers._RegExpTrigger'>

A regex-based trigger. See more in [_RegExpTrigger](#).

1.3.1 text.has_exact_word

class _HasExactWordTrigger (*word: Union[str, List[str]]*)

Word trigger - the same as substring trigger, but for exact words search. This is used to trigger a rule when a certain word (or one of a list of words) exists in an incoming message.

__init__ (*word: Union[str, List[str]]*)

Constructs the trigger.

Parameters **word** – The word/s to search in the message

1.3.2 text.has_substring

class _HasSubstringTrigger (*substring: Union[str, List[str]], exact: bool = False*)

Substring trigger. This is used to trigger a rule when a certain substring (or one of a list of substrings) exists in an incoming message.

__init__ (*substring: Union[str, List[str]], exact: bool = False*)

Constructs the trigger.

Parameters

- **substring** – The substring/s to search in the message
- **exact** – Whether the exact substring should appear (as a whole word) in the message

1.3.3 text.regex

class _RegExpTrigger (*pattern: str*)

Regular-expression-based trigger. This is used to trigger a rule when an incoming message matches the given pattern.

__init__ (*pattern: str*)

Constructs the trigger.

Parameters **pattern** – The pattern to test the message's match with

2.1 Match Responses

There are some matched-based responses, which should normally come after a regexp trigger

class MatchResponses

Regexp-based responses. These responses use the regexp match result from the trigger, as well as the given template, to build the response text.

message = <class 'gramhopper.responses.match_responses._MatchMessageResponse'>

A regexp-based **message** response. See more in [_MatchMessageResponse](#).

reply = <class 'gramhopper.responses.match_responses._MatchReplyResponse'>

A regexp-based **reply** response. See more in [_MatchReplyResponse](#).

2.1.1 match.message

class _MatchMessageResponse (*template: str*)

A regexp-based response in which the response method is a normal message

__init__ (*template: str*)

Constructs the response.

Parameters **template** – The template to use when building the response text

2.1.2 match.reply

class _MatchReplyResponse (*template: str*)

A regexp-based response in which the response method is a reply to the triggering message

__init__ (*template: str*)

Constructs the response.

Parameters **template** – The template to use when building the response text

2.2 Preset Responses

class PresetResponses

Preset responses. These responses use a preset response/s to respond with. If a list of responses is given, one of them will be chosen randomly for each response.

document = <class 'gramhopper.responses.preset_responses._PresetDocumentResponse'>
A preset **document** response. See more in [_PresetDocumentResponse](#).

message = <class 'gramhopper.responses.preset_responses._PresetMessageResponse'>
A preset **message** response. See more in [_PresetMessageResponse](#).

reply = <class 'gramhopper.responses.preset_responses._PresetReplyResponse'>
A preset **reply** response. See more in [_PresetReplyResponse](#).

2.2.1 preset.document

class _PresetDocumentResponse (*preset_response: Union[str, telegram.files.document.Document]*)

A preset response in which the response method is a document

__init__ (*preset_response: Union[str, telegram.files.document.Document]*)
Constructs the response.

Parameters **preset_response** – The preset document URL or document object

2.2.2 preset.message

class _PresetMessageResponse (*preset_response: Union[str, List[str]]*)

A preset response in which the response method is a normal message

__init__ (*preset_response: Union[str, List[str]]*)
Constructs the response.

Parameters **preset_response** – The preset response or list of responses

2.2.3 preset.reply

class _PresetReplyResponse (*preset_response: Union[str, List[str]]*)

A preset response in which the response method is a reply to the triggering message

__init__ (*preset_response: Union[str, List[str]]*)
Constructs the response.

Parameters **preset_response** – The preset response or list of responses

Symbols

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 _HasSubstringTrigger (class in gramhopper.triggers.text_triggers), 2
 _MatchMessageResponse (class in gramhopper.responses.match_responses), 3
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