
Padatious Documentation

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Contents:

1	IntentContainer	3
2	MatchData	5

An efficient and agile neural network intent parser

IntentContainer

class `padatious.IntentContainer` (*cache_dir*)

Creates an IntentContainer object used to load and match intents

Parameters `cache_dir` (*str*) – Place to put all saved neural networks

add_intent (*name, lines, reload_cache=False*)

Creates a new intent, optionally checking the cache first

Parameters

- **name** (*str*) – The associated name of the intent
- **lines** (*list<str>*) – All the sentences that should activate the intent
- **reload_cache** – Whether to ignore cached intent if exists

calc_intent (*query*)

Tests all the intents against the query and returns match data of the best intent

Parameters `query` (*str*) – Input sentence to test against intents

Returns Best intent match

Return type *MatchData*

calc_intents (*query*)

Tests all the intents against the query and returns data on how well each one matched against the query

Parameters `query` (*str*) – Input sentence to test against intents

Returns List of intent matches

Return type *list<MatchData>*

See `calc_intent()` for a description of the returned *MatchData*

load_file (*name, file_name, reload_cache=False*)

Loads an intent, optionally checking the cache first

Parameters

- **name** (*str*) – The associated name of the intent
- **file_name** (*str*) – The location of the intent file
- **reload_cache** (*bool*) – Whether to ignore cached intent if exists

train (*print_updates=True, single_thread=False*)

Trains all the loaded intents that need to be updated. If a cache file exists with the same hash as the intent file, the intent will not be trained and just loaded from file.

Parameters

- **print_updates** (*bool*) – Whether to print a message to stdout each time a new intent is trained
- **single_thread** (*bool*) – Whether to force running in a single thread

MatchData

class `padatious.MatchData` (*name, sent, matches=None, conf=0.0*)

A set of data describing how a query fits into an intent

name

str – Name of matched intent

sent

str – The query after entity extraction

conf

float – Confidence (from 0.0 to 1.0)

matches

dict of str -> str – Key is the name of the entity and value is the extracted part of the sentence

A

add_intent() (padatious.IntentContainer method), 3

C

calc_intent() (padatious.IntentContainer method), 3

calc_intents() (padatious.IntentContainer method), 3

conf (MatchData attribute), 5

I

IntentContainer (class in padatious), 3

L

load_file() (padatious.IntentContainer method), 3

M

MatchData (class in padatious), 5

matches (MatchData attribute), 5

N

name (MatchData attribute), 5

S

sent (MatchData attribute), 5

T

train() (padatious.IntentContainer method), 4