gTTS Documentation

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gTTS (*Google Text-to-Speech*), a Python library and CLI tool to interface with Google Translate's text-to-speech API. Writes spoken mp3 data to a file, a file-like object (bytestring) for further audio manipulation, or stdout. It features flexible pre-processing and tokenizing, as well as automatic retrieval of supported languages.

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2 Documentation

CHAPTER 1

Installation

pip install gTTS

1.1 Command-line (gtts-cli)

After installing the package, the gtts-cli tool becomes available:

\$ gtts-cli

1.1.1 gtts-cli

 $Read < text > to \ mp3 \ format \ using \ Google \ Translate's \ Text-to-Speech \ API \ (set < text > or -file < file > to - for \ standard \ input)$

gtts-cli [OPTIONS] <text>

Options

- -f, --file <file>
 - Read from <file> instead of <text>.
- -o, --output <output>

Write to <file> instead of stdout.

-s, --slow

Read more slowly.

-1, --lang <lang>

IETF language tag. Language to speak in. List documented tags with -all. [default: en]

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--nocheck

Disable strict IETF language tag checking. Allow undocumented tags.

--all

Print all documented available IETF language tags and exit.

--debug

Show debug information.

--version

Show the version and exit.

Arguments

<text>

Optional argument

1.1.2 Examples

List available languages:

```
$ gtts-cli --all
```

Read 'hello' to hello.mp3:

```
$ gtts-cli 'hello' --output hello.mp3
```

Read 'bonjour' in French to bonjour.mp3:

```
$ gtts-cli 'bonjour' --lang fr --output bonjour.mp3
```

Read 'slow' slowly to slow.mp3:

```
$ gtts-cli 'slow' --slow --output slow.mp3
```

Read 'hello' to stdout:

```
$ gtts-cli 'hello'
```

Read stdin to hello.mp3 via <text> or <file>:

```
$ echo -n 'hello' | gtts-cli - --output hello.mp3
$ echo -n 'hello' | gtts-cli --file - --output hello.mp3
```

Read 'no check' to nocheck . mp3 without language checking:

```
$ gtts-cli 'no check' --lang zh --nocheck --ouput nocheck.mp3
```

Note: Using --nocheck can make the command *slightly* faster. It exists however to force a <lang> language tag that might not be documented but would work with the API, such as for specific regional sub-tags of documented tags (examples for 'en': 'en-gb', 'en-au', etc.).

1.1.3 Playing sound directly

You can pipe the output of gtts-cli into any media player that supports stdin. For example, using the play command from SoX:

```
$ gtts-cli 'hello' | play -t mp3 -
```

1.2 Module (gtts)

- gTTS (gtts.gTTS)
- Languages (gtts.lang)
- Examples
- Playing sound directly
- Logging

1.2.1 gTTS (gtts.gTTS)

```
class gtts.tts.gtts (text, lang='en', slow=False, lang_check=True, pre_processor_funcs=[<function tone_marks>, <function end_of_line>, <function abbreviations>, <function word_sub>], tokenizer_func=<bound method Tokenizer.run of re.compile('(?<=\?).\!(?<=\\).\!(?<=\\).\!(?<\\[a-z])\\ \!(?<\\[a-z])\\ \!(?<\\[a-z])\\
```

gTTS – Google Text-to-Speech.

An interface to Google Translate's Text-to-Speech API.

Parameters

- **text** (*string*) The text to be read.
- lang (string, optional) The language (IETF language tag) to read the text in. Defaults to 'en'.
- **slow** (bool, optional) Reads text more slowly. Defaults to False.
- lang_check (bool, optional) Strictly enforce an existing lang, to catch a language error early. If set to True, a ValueError is raised if lang doesn't exist. Default is True.
- **pre_processor_funcs** (list) A list of zero or more functions that are called to transform (pre-process) text before tokenizing. Those functions must take a string and return a string. Defaults to:

```
pre_processors.tone_marks,
    pre_processors.end_of_line,
    pre_processors.abbreviations,
    pre_processors.word_sub
]
```

1.2. Module (gtts) 5

• tokenizer_func (callable) - A function that takes in a string and returns a list of string (tokens). Defaults to:

```
Tokenizer([
    tokenizer_cases.tone_marks,
    tokenizer_cases.period_comma,
    tokenizer_cases.colon,
    tokenizer_cases.other_punctuation
]).run
```

See also:

Pre-processing and tokenizing

Raises

- AssertionError When text is None or empty; when there's nothing left to speak after pre-precessing, tokenizing and cleaning.
- ValueError When lang_check is True and lang is not supported.
- RuntimeError When lang_check is True but there's an error loading the languages dictionnary.

save (savefile)

Do the TTS API request and write result to file.

Parameters savefile (*string*) – The path and file name to save the mp3 to.

Raises gTTSError – When there's an error with the API request.

$write_to_fp(fp)$

Do the TTS API request and write bytes to a file-like object.

Parameters fp (*file* object) – Any file-like object to write the mp3 to.

Raises

- gTTSError When there's an error with the API request.
- TypeError When fp is not a file-like object that takes bytes.

```
exception gtts.tts.gTTSError(msg=None, **kwargs)
```

Exception that uses context to present a meaningful error message

```
infer_msg(tts, rsp)
```

Attempt to guess what went wrong by using known information (e.g. http response) and observed behaviour

1.2.2 Languages (gtts.lang)

Note: The easiest way to get a list of available language is to print them with gtts-cli --all

```
gtts.lang.tts_langs()
```

Languages Google Text-to-Speech supports.

Returns

A dictionnary of the type { '<lang>': '<name>'}

Where *<lang>* is an IETF language tag such as *en* or *pt-br*, and *<name>* is the full English name of the language, such as *English* or *Portuguese* (*Brazil*).

Return type dict

The dictionnary returned combines languages from two origins:

- Languages fetched automatically from Google Translate
- Languages that are undocumented variations that were observed to work and present different dialects or accents.

1.2.3 Examples

Write 'hello' in English to hello.mp3:

```
>>> from gtts import gTTS
>>> tts = gTTS('hello', lang='en')
>>> tts.save('hello.mp3')
```

Write 'hello bonjour' in English then French to hello_bonjour.mp3:

```
>>> from gtts import gTTS
>>> tts_en = gTTs('hello', lang='en')
>>> tts_fr = gTTS('bonjour', lang='fr')
>>>
>>> with open('hello_bonjour.mp3', 'wb') as f:
... tts_en.write_to_fp(f)
... tts_fr.write_to_fp(p)
```

1.2.4 Playing sound directly

There's quite a few libraries that do this. Write 'hello' to a file-like object do further manipulation::

```
>>> from gtts import gTTS
>>> from io import BytesIO
>>>
>>> mp3_fp = BytesIO()
>>> tts = gTTS('hello', 'en')
>>> tts.write_to_fp(mp3_fp)
>>>
>>> # Load `audio_fp` as an mp3 file in
>>> # the audio library of your choice
```

1.2.5 Logging

gtts does logging using the standard Python logging module. The following loggers are available:

```
gtts.tts Logger used for the gTTS class
gtts.lang Logger used for the lang module (language fetching)
gtts Upstream logger for all of the above
```

1.3 Pre-processing and tokenizing

The <code>gtts.tokenizer</code> module powers the default pre-processing and tokenizing features of <code>gTTS</code> and provides tools to easily expand them. <code>gtts.tts.gTTS</code> takes two arguments <code>pre_processor_funcs</code> (list of functions) and <code>tokenizer_func</code> (function). See: <code>Pre-processing</code>, <code>Tokenizing</code>.

- Definitions
- Pre-processing
 - Customizing & Examples
- Tokenizing
 - Customizing & Examples
 - Using a 3rd-party tokenizer
- Minimizing
- gtts.tokenizer module reference (gtts.tokenizer)

1.3.1 Definitions

Pre-processor: Function that takes text and returns text. Its goal is to modify text (for example correcting pronounciation), and/or to prepare text for proper tokenization (for example enuring spacing after certain characters).

Tokenizer: Function that takes text and returns it split into a list of *tokens* (strings). In the gTTS context, its goal is to cut the text into smaller segments that do not exceed the maximum character size allowed for each TTS API request, while making the speech sound natural and continuous. It does so by splitting text where speech would naturally pause (for example on ".") while handling where it should not (for example on "10.5" or "U.S.A."). Such rules are called *tokenizer cases*, which it takes a list of.

Tokenizer case: Function that defines one of the specific cases used by <code>gtts.tokenizer.core.Tokenizer</code>. More specifically, it returns a regex object that describes what to look for for a particular case. <code>gtts.tokenizer.core.Tokenizer</code> then creates its main <code>regex</code> pattern by joining all <code>tokenizer cases</code> with "!".

1.3.2 Pre-processing

You can pass a list of any function to gtts.tts.gTTS's pre_processor_funcs attribute to act as pre-processor (as long as it takes a string and returns a string).

By default, qtts.tts.qTTS takes a list of the following pre-processors, applied in order:

```
pre_processors.tone_marks,
    pre_processors.end_of_line,
    pre_processors.abbreviations,
    pre_processors.word_sub
]
```

```
gtts.tokenizer.pre_processors.abbreviations(text)
```

Remove periods after an abbreviation from a list of known abbrevations that can be spoken the same without that period. This prevents having to handle tokenization of that period.

Note: Could potentially remove the ending period of a sentence.

Note: Abbreviations that Google Translate can't pronounce without (or even with) a period should be added as a word substitution with a PreProcessorSub pre-processor. Ex.: 'Esq.', 'Esquire'.

```
gtts.tokenizer.pre_processors.end_of_line (text)
    Re-form words cut by end-of-line hyphens.
    Remove "<hyphen><newline>".
gtts.tokenizer.pre_processors.tone_marks(text)
```

Because the *tone_marks* tokenizer case will split after a tone-modidfying punctuation mark, make sure there's whitespace after.

```
gtts.tokenizer.pre_processors.word_sub (text)
Word-for-word substitutions.
```

Add a space after tone-modifying punctuation.

Customizing & Examples

This module provides two classes to help build pre-processors:

- gtts.tokenizer.core.PreProcessorRegex (for regex-based replacing, as would re.sub use)
- gtts.tokenizer.core.PreProcessorSub (for word-for-word replacements).

The run (text) method of those objects returns the processed text.

Speech corrections (word substitution)

The default substitutions are defined by the <code>gtts.tokenizer.symbols.SUB_PAIRS</code> list. Add a custom one by appending to it:

Abbreviations

The default abbreviations are defined by the <code>gtts.tokenizer.symbols.ABBREVIATIONS</code> list. Add a custom one to it to add a new abbreviation to remove the period from. Note: the default list already includes an extensive list of English abbreviations that Google Translate will read even without the period.

See gtts.tokenizer.pre_processors for more examples.

1.3.3 Tokenizing

You can pass any function to gtts.tts.gTTS's tokenizer_func attribute to act as tokenizer (as long as it takes a string and returns a list of strings).

By default, gTTS takes the gtts.tokenizer.core.Tokenizer's gtts.tokenizer.core. Tokenizer.run(), initialized with default tokenizer cases:

```
Tokenizer([
    tokenizer_cases.tone_marks,
    tokenizer_cases.period_comma,
    tokenizer_cases.other_punctuation
]).run
```

The available tokenizer cases are as follows:

```
gtts.tokenizer.tokenizer_cases.colon()
   Colon case.
```

Match a colon ":" only if not preceded by a digit. Mainly to prevent a cut in the middle of time notations e.g.

Use as only tokenizer case to mimic gTTS 1.x tokenization.

```
gtts.tokenizer.tokenizer_cases.other_punctuation()
```

Match other punctuation.

Match other punctuation to split on; punctuation that naturally inserts a break in speech.

```
gtts.tokenizer.tokenizer_cases.period_comma()
```

Period and comma case.

Match if not preceded by ".<letter>" and only if followed by space. Won't cut in the middle/after dotted abbreviations; won't cut numbers.

Note: Won't match if a dotted abbreviation ends a sentence.

Note: Won't match the end of a sentence if not followed by a space.

```
gtts.tokenizer.tokenizer_cases.tone_marks()
```

Keep tone-modifying punctuation by matching following character.

Assumes the *tone_marks* pre-processor was run for cases where there might not be any space after a tone-modifying punctuation mark.

Customizing & Examples

A tokenizer case is a function that returns a compiled regex object to be used in a re.split() context.

gtts.tokenizer.core.Tokenizer takes a list of tokenizer cases and joins their pattern with "l" in one single pattern.

This module provides a class to help build tokenizer cases: gtts.tokenizer.core.RegexBuilder. See gtts.tokenizer.core.RegexBuilder and gtts.tokenizer.tokenizer_cases for examples.

Using a 3rd-party tokenizer

Even though gtts.tokenizer.core.Tokenizer works well in this context, there are way more advanced tokenizers and tokenizers techniques. As long as you can restrict the length of output tokens, you can use any tokenizer you'd like, such as the ones in NLTK.

1.3.4 Minimizing

The Google Translate text-to-speech API accepts a maximum of 100 characters.

If after tokenization any of the tokens is larger than 100 characters, it will be split in two:

- On the last space character that is closest to, but before the 100th character;
- Between the 100th and 101st characters if there's no space.

1.3.5 gtts.tokenizer module reference (gtts.tokenizer)

```
class gtts.tokenizer.core.RegexBuilder (pattern_args, pattern_func, flags=0) Builds regex using arguments passed into a pattern template.
```

Builds a regex object for which the pattern is made from an argument passed into a template. If more than one argument is passed (iterable), each pattern is joined by "I" (regex alternation 'or') to create a single pattern.

Parameters

- pattern_args (iteratable) String element(s) to be each passed to pattern_func to create a regex pattern. Each element is re.escape'd before being passed.
- pattern_func (callable) A 'template' function that should take a string and return a string. It should take an element of pattern_args and return a valid regex pattern group string.
- **flags** re flag(s) to compile with the regex.

Example

To create a simple regex that matches on the characters "a", "b", or "c", followed by a period:

```
>>> rb = RegexBuilder('abc', lambda x: "{}\.".format(x))
```

Looking at rb. regex we get the following compiled regex:

```
>>> print(rb.regex)
'a\.|b\.|c\.'
```

The above is fairly simple, but this class can help in writing more complex repetitive regex, making them more readable and easier to create by using existing data structures.

Example

To match the character following the words "lorem", "ipsum", "meili" or "koda":

```
>>> words = ['lorem', 'ipsum', 'meili', 'koda']
>>> rb = RegexBuilder(words, lambda x: "(?<={}).".format(x))</pre>
```

Looking at rb.regex we get the following compiled regex:

```
>>> print(rb.regex)
'(?<=lorem).|(?<=meili).|(?<=koda).'
```

class gtts.tokenizer.core.PreProcessorRegex (search_args, search_func, repl, flags=0)
 Regex-based substitution text pre-processor.

Runs a series of regex substitutions (re.sub) from each regex of a gtts.tokenizer.core. RegexBuilder with an extra repl replacement parameter.

Parameters

- **search_args** (*iteratable*) String element(s) to be each passed to search_func to create a regex pattern. Each element is re.escape'd before being passed.
- **search_func** (callable) A 'template' function that should take a string and return a string. It should take an element of search_args and return a valid regex search pattern string.
- **repl** (*string*) The common replacement passed to the sub method for each regex. Can be a raw string (the case of a regex backreference, for example)
- **flags** re flag(s) to compile with each *regex*.

Example

Add "!" after the words "lorem" or "ipsum", while ignoring case:

In this case, the regex is a group and the replacement uses its backreference $\ 1$ (as a raw string). Looking at pp we get the following list of search/replacement pairs:

```
>>> print(pp)
(re.compile('(lorem)', re.IGNORECASE), repl='{!'),
(re.compile('(ipsum)', re.IGNORECASE), repl='{!')
```

It can then be run on any string of text:

```
>>> pp.run("LOREM ipSuM")
"LOREM! ipSuM!"
```

See gtts.tokenizer.pre_processors for more examples.

run (text)

Run each regex substitution on text.

Parameters text (string) – the input text.

Returns text after all substitutions have been sequentially applied.

Return type string

class gtts.tokenizer.core.PreProcessorSub (sub_pairs, ignore_case=True)
 Simple substitution text preprocessor.

Performs string-for-string substitution from list a find/replace pairs. It abstracts gtts.tokenizer.core. PreProcessorRegex with a default simple substitution regex.

Parameters

- **sub_pairs** (*list*) A list of tuples of the style (<search str>, <replace str>)
- **ignore_case** (bool) Ignore case during search. Defaults to True.

Example

Replace all occurences of "Mac" to "PC" and "Firefox" to "Chrome":

```
>>> sub_pairs = [('Mac', 'PC'), ('Firefox', 'Chrome')]
>>> pp = PreProcessorSub(sub_pairs)
```

Looking at the pp, we get the following list of search (regex)/replacement pairs:

```
>>> print(pp)
(re.compile('Mac', re.IGNORECASE), repl='PC'),
(re.compile('Firefox', re.IGNORECASE), repl='Chrome')
```

It can then be run on any string of text:

```
>>> pp.run("I use firefox on my mac")
"I use Chrome on my PC"
```

See gtts.tokenizer.pre_processors for more examples.

run (text)

Run each substitution on text.

Parameters text (string) – the input text.

Returns text after all substitutions have been sequentially applied.

Return type string

```
class gtts.tokenizer.core.Tokenizer(regex_funcs, flags=2)
```

An extensible but simple generic rule-based tokenizer.

A generic and simple string tokenizer that takes a list of functions (called *tokenizer cases*) returning regex objects and joins them by "|" (regex alternation 'or') to create a single regex to use with the standard regex. split() function.

regex_funcs is a list of any function that can return a regex (from re.compile()) object, such as a gtts.tokenizer.core.RegexBuilder instance (and its regex attribute).

See the gtts.tokenizer.tokenizer_cases module for examples.

Parameters

- regex_funcs (list) List of compiled regex objects. Each functions's pattern will be joined into a single pattern and compiled.
- flags re flag(s) to compile with the final regex. Defaults to re.IGNORECASE

Note: When the regex objects obtained from regex_funcs are joined, their individual re flags are ignored in favour of flags.

Raises TypeError – When an element of regex_funcs is not a function, or a function that does not return a compiled regex object.

Warning: Joined regex patterns can easily interfere with one another in unexpected ways. It is recommanded that each tokenizer case operate on distinct or non-overlapping chracters/sets of characters (For example, a tokenizer case for the period (".") should also handle not matching/cutting on decimals, instead of making that a seperate tokenizer case).

Example

A tokenizer with a two simple case (*Note: these are bad cases to tokenize on, this is simply a usage example*):

```
>>> import re, RegexBuilder
>>>
>>> def case1():
...    return re.compile("\,")
>>>
>>> def case2():
...    return RegexBuilder('abc', lambda x: "{}\.".format(x)).regex
>>>
>>> t = Tokenizer([case1, case2])
```

Looking at case1().pattern, we get:

```
>>> print(case1().pattern)
'\,'
```

Looking at case2().pattern, we get:

```
>>> print(case2().pattern)
'a\.|b\.|c\.'
```

Finally, looking at t, we get them combined:

```
>>> print(t)
're.compile('\,|a\.|b\.|c\.', re.IGNORECASE)
from: [<function case1 at 0x10bbcdd08>, <function case2 at 0x10b5c5e18>]'
```

It can then be run on any string of text:

```
>>> t.run("Hello, my name is Linda a. Call me Lin, b. I'm your friend")
['Hello', ' my name is Linda ', ' Call me Lin', ' ', " I'm your friend"]
```

run (text)

Tokenize text.

Parameters text (string) – the input text to tokenize.

Returns A list of strings (token) split according to the tokenizer cases.

Return type list

```
symbols.ABBREVIATIONS = ['dr', 'jr', 'mr', 'mrs', 'ms', 'msgr', 'prof', 'sr', 'st']
symbols.SUB_PAIRS = [('M.', 'Monsieur')]
symbols.ALL_PUNC = '?!.,;()[]¿...;:--\n'
symbols.TONE_MARKS = '?!'
```

1.4 License

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1.5 Contributing

1.5.1 Reporting Issues

On the Github issues page. Thanks!

1.5.2 Submitting Patches

- 1. Fork. Follow PEP 8!
- 2. Write/Update tests (see below).
- 3. **Document**. Docstrings follow the Google Python Style Guide (docs by Sphinx). You can 'test' documentation:

```
$ pip install .[docs]
$ cd docs && make html # generated in docs/_build/html/
```

- 4. **Open Pull Request**. To the master branch.
- 5. **Changelog.** This project uses towncrier for managing the changelog. Please consider creating one or more 'news fragment' in the /news/ directory and adding them to your PR, in the style of <issue_or_pr_number>.<type> where 'type' is one of: 'feature', 'bugfix', 'doc', 'removal' or 'misc'.

See towncrier (New Fragments) for more details. Example:

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```
$ echo 'Fixed a thing!' > gtts/news/1234.bugfix
```

Note:

Please don't hesitate to contribute! While good tests, docs and structure are encouraged, I do welcome great ideas over absolute comformity to the above! Thanks!

1.5.3 Testing

Testing is done with the unittest framework.

As a rule, the file ./tests/test_<module>.py file tests the <module> module.

To run all tests (testing only language 'en' and generating an html coverage report in gtts/htmlcov/):

```
$ pip install .[tests]
$ TEST_LANGS=en pytest -v -s gtts/ --cov=gtts --cov-report=html
```

1.6 Changelog

1.6.1 2.0.3 (2018-12-15)

Features

• Added new tokenizer case for ':' preventing cut in the middle of a time notation (#135)

Misc

• #159

1.6.2 2.0.2 (2018-12-09)

Features

• Added Python 3.7 support, modernization of packaging, testing and CI (#126)

Bugfixes

• Fixed language retrieval/validation broken from new Google Translate page (#156)

1.6.3 2.0.1 (2018-06-20)

Bugfixes

• Fixed an UnicodeDecodeError when installing gTTS if system locale was not utf-8 (#120)

Improved Documentation

• Added *Pre-processing and tokenizing > Minimizing* section about the API's 100 characters limit and how larger tokens are handled (#121)

Misc

• #122

1.6.4 2.0.0 (2018-04-30)

(#108)

Features

- The gtts module
 - New logger ("gtts") replaces all occurrences of print ()
 - Languages list is now obtained automatically (qtts.lang) (#91, #94, #106)
 - Added a curated list of language sub-tags that have been observed to provide different dialects or accents (e.g. "en-gb", "fr-ca")
 - New gTTS () parameter lang_check to disable language checking.
 - gTTS() now delegates the text tokenizing to the API request methods (i.e. write_to_fp(), save()), allowing gTTS instances to be modified/reused
 - Rewrote tokenizing and added pre-processing (see below)
 - New gTTS() parameters pre_processor_funcs and tokenizer_func to configure preprocessing and tokenizing (or use a 3rd party tokenizer)
 - Error handling:
 - * Added new exception gTTSError raised on API request errors. It attempts to guess what went wrong based on known information and observed behaviour (#60, #106)
 - * gTTS.write_to_fp() and gTTS.save() also raise gTTSError on gtts_token error
 - * gTTS.write_to_fp() raises TypeError when fp is not a file-like object or one that doesn't take bytes
 - * gTTS() raises ValueError on unsupported languages (and lang_check is True)
 - * More fine-grained error handling throughout (e.g. request failed vs. request successful with a bad response)
- Tokenizer (and new pre-processors):
 - Rewrote and greatly expanded tokenizer (gtts.tokenizer)

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- Smarter token 'cleaning' that will remove tokens that only contain characters that can't be spoken (i.e. punctuation and whitespace)
- Decoupled token minimizing from tokenizing, making the latter usable in other contexts
- New flexible speech-centric text pre-processing
- New flexible full-featured regex-based tokenizer (gtts.tokenizer.core.Tokenizer)
- New RegexBuilder, PreProcessorRegex and PreProcessorSub classes to make writing regex-powered text pre-processors and tokenizer cases easier
- Pre-processors:
 - * Re-form words cut by end-of-line hyphens
 - * Remove periods after a (customizable) list of known abbreviations (e.g. "jr", "sr", "dr") that can be spoken the same without a period
 - * Perform speech corrections by doing word-for-word replacements from a (customizable) list of tuples
- Tokenizing:
 - * Keep punctuation that modify the inflection of speech (e.g. "?", "!")
 - * Don't split in the middle of numbers (e.g. "10.5", "20,000,000") (#101)
 - * Don't split on "dotted" abbreviations and accronyms (e.g. "U.S.A")
 - * Added Chinese comma (""), ellipsis ("...") to punctuation list to tokenize on (#86)
- The gtts-cli command-line tool
 - Rewrote cli as first-class citizen module (gtts.cli), powered by Click
 - Windows support using setuptool's entry_points
 - Better support for Unicode I/O in Python 2
 - All arguments are now pre-validated
 - New --nocheck flag to skip language pre-checking
 - New --all flag to list all available languages
 - Either the --file option or the <text> argument can be set to "-" to read from stdin
 - The --debug flag uses logging and doesn't pollute stdout anymore

Bugfixes

- _minimize(): Fixed an infinite recursion loop that would occur when a token started with the miminizing delimiter (i.e. a space) (#86)
- _minimize(): Handle the case where a token of more than 100 characters did not contain a space (e.g. in Chinese).
- Fixed an issue that fused multiline text together if the total number of characters was less than 100
- Fixed gtts-cli Unicode errors in Python 2.7 (famous last words) (#78, #93, #96)

Deprecations and Removals

- Dropped Python 3.3 support
- Removed debug parameter of gTTS (in favour of logger)
- gtts-cli: Changed long option name of -o to --output instead of --destination
- gTTS() will raise a ValueError rather than an AssertionError on unsupported language

Improved Documentation

- · Rewrote all documentation files as reStructuredText
- Comprehensive documentation writen for Sphinx, published to http://gtts.readthedocs.io
- Changelog built with towncrier

Misc

- · Major test re-work
- Language tests can read a TEST_LANGS environment variable so not all language tests are run every time.
- Added AppVeyor CI for Windows
- PEP 8 compliance

1.6.5 1.2.2 (2017-08-15)

Misc

• Update LICENCE, add to manifest (#77)

1.6.6 1.2.1 (2017-08-02)

Features

• Add Unicode punctuation to the tokenizer (such as for Chinese and Japanese) (#75)

Bugfixes

• Fix > 100 characters non-ASCII split, unicode () for Python 2 (#71, #73, #75)

1.6.7 1.2.0 (2017-04-15)

Features

- Option for slower read speed (slow=True for gTTS(), --slow for gtts-cli) (#40, #41, #64, #67)
- System proxy settings are passed transparently to all http requests (#45, #68)
- Silence SSL warnings from urllib3 (#69)

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Bugfixes

- The text to read is now cut in proper chunks in Python 2 unicode. This broke reading for many languages such as Russian.
- Disabled SSL verify on http requests to accommodate certain firewalls and proxies.
- Better Python 2/3 support in general (#9, #48, #68)

Deprecations and Removals

• 'pt-br': 'Portuguese (Brazil)' (it was the same as 'pt' and not Brazilian) (#69)

1.6.8 1.1.8 (2017-01-15)

Features

• Added stdin support via the '-' text argument to gtts-cli (#56)

1.6.9 1.1.7 (2016-12-14)

Features

• Added utf-8 support to gtts-cli (#52)

1.6.10 1.1.6 (2016-07-20)

Features

• Added 'bn': 'Bengali' (#39, #44)

Deprecations and Removals

• 'ht': 'Haitian Creole' (removed by Google) (#43)

1.6.11 1.1.5 (2016-05-13)

Bugfixes

• Fixed HTTP 403s by updating the client argument to reflect new API usage (#32, #33)

1.6.12 1.1.4 (2016-02-22)

Features

20

• Spun-off token calculation to gTTS-Token (#23, #29)

1.6.13 1.1.3 (2016-01-24)

Bugfixes

- gtts-cli works with Python 3 (#20)
- Better support for non-ASCII characters (#21, #22)

Misc

• Moved out gTTS token to its own module (#19)

1.6.14 1.1.2 (2016-01-13)

Features

• Added gTTS token (tk url parameter) calculation (#14, #15, #17)

1.6.15 1.0.7 (2015-10-07)

Features

• Added stdout support to gtts-cli, text now an argument rather than an option (#10)

1.6.16 1.0.6 (2015-07-30)

Features

• Raise an exception on bad HTTP response (4xx or 5xx) (#8)

Bugfixes

• Added client=t parameter for the api HTTP request (#8)

1.6.17 1.0.5 (2015-07-15)

Features

• write_to_fp() to write to a file-like object (#6)

1.6.18 1.0.4 (2015-05-11)

Features

• Added Languages: *zh-yue*: 'Chinese (Cantonese)', *en-uk*: 'English (United Kingdom)', *pt-br*: 'Portuguese (Brazil)', *es-es*: 'Spanish (Spain)', *es-us*: 'Spanish (United StateS)', *zh-cn*: 'Chinese (Mandarin/China)', *zh-tw*: 'Chinese (Mandarin/Taiwan)' (#4)

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Bugfixes

• gtts-cli print version and pretty printed available languages, language codes are now case insensitive (#4)

1.6.19 1.0.3 (2014-11-21)

Features

• Added Languages: 'en-us': 'English (United States)', 'en-au': 'English (Australia)' (#3)

1.6.20 1.0.2 (2014-05-15)

Features

• Python 3 support

1.6.21 1.0.1 (2014-05-15)

Misc

• SemVer versioning, CI changes

1.6.22 1.0 (2014-05-08)

Features

• Initial release

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Misc

- genindex
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