
gdoc_d*ownDocumentation*

Release 0.0.5

Jonathan Karr

October 26, 2016

1	gdoc_down	3
1.1	gdoc_down package	3
2	Indices and tables	7
	Python Module Index	9

Contents:

1.1 gdoc_down package

1.1.1 Submodules

1.1.2 gdoc_down.core module

Save the content of a Google document to a local file.

Author Jonathan Karr <karr@mssm.edu>

Date 2016-08-16

Copyright 2016, Karr Lab

License MIT

```
class gdoc_down.core.GDocDown(credentials=None, service=None)
    Bases: object
```

Downloads Google documents to several formats

- HTML (.html)
- LaTeX (.tex)
- Open Office document (.odt)
- Plain text file (.txt)
- Portable document format (.pdf)
- Rich text document (.rtf)
- Word document (.docx)

The class has several special features for handling LaTeX files:

- The program ignores all images. This allows the user to place images inside the Google document for convenience and to use includegraphics to embed images in compile PDF files.
- The program will convert all Google document comments to PDF comments.
- The program ignores all page breaks.

The first time the program is called, the program will request access to the user's Google account. This will create a client.json file.

credentials`oauth2client.client.OAuth2Credentials`

Credentials object for OAuth 2.0.

service`apiclient.discovery.Resource`

A Resource object with methods for interacting with the service

APPLICATION_NAME = 'gdoc_down'**CLIENT_SECRET_PATH** = '/home/docs/checkouts/readthedocs.org/user_builds/gdoc-down/checkouts/0.0.5/gdoc_down/cli'**CREDENTIAL_PATH** = '/home/docs/.gdoc_down/auth.json'**SCOPES** = ('https://www.googleapis.com/auth/drive', 'https://www.googleapis.com/auth/drive.file', 'https://www.googleapis.com/auth/drive.metadata')**authenticate** (*credentials*)

Authenticate with Google server

Returns A Resource object with methods for interacting with the service

Return type `apiclient.discovery.Resource`

static convert_html_to_latex (*html_content*)

Format Google document content downloaded in HTML format for LaTeX

- Replace HTML characters with LaTeX commands
- Remove images
- Replace comments with PDF comments (using *pdfcomment* package)

Parameters **html_content** (`bytes`) – HTML version of Google document

Returns formatted LaTeX

Return type `bytes`

download (*gdoc_file*, *format='docx'*, *out_path='.'*, *extension=None*)**Parameters**

- **gdoc_file** (`str`) – path to Google document
- **format** (`str`, optional) – desired output format (docx, html, odt, pdf, rtf, tex, txt)
- **out_path** (`str`, optional) – path to save document
- **extension** (`str`, optional) – extension to document

Raises `obj` – *Exception*: if format unknown or if output file path and extension cannot both be specified

get_credentials ()

Get and save user credentials from Google. If credentials haven't already been stored, or if the stored credentials are invalid, obtain the new credentials.

Returns: `oauth2client.client.OAuth2Credentials`: Credentials object for OAuth 2.0.

static get_element_text (*element*)

Get all of the text underneath an XML element

Parameters **el** (`xml.etree.ElementTree.Element`) – XML element

Returns element's text

Return type `str`

static `get_gdoc_id(gdoc_file)`

Get Google document id

Parameters `gdoc_file` (`str`) – path to Google document

Returns id of Google document

Return type `str`

1.1.3 Module contents

Indices and tables

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

g

`gdoc_down`, 5
`gdoc_down.core`, 3

A

APPLICATION_NAME (gdoc_down.core.GDocDown attribute), 4
authenticate() (gdoc_down.core.GDocDown method), 4

C

CLIENT_SECRET_PATH (gdoc_down.core.GDocDown attribute), 4
convert_html_to_latex() (gdoc_down.core.GDocDown static method), 4
CREDENTIAL_PATH (gdoc_down.core.GDocDown attribute), 4
credentials (gdoc_down.core.GDocDown attribute), 3

D

download() (gdoc_down.core.GDocDown method), 4

G

gdoc_down (module), 5
gdoc_down.core (module), 3
GDocDown (class in gdoc_down.core), 3
get_credentials() (gdoc_down.core.GDocDown method), 4
get_element_text() (gdoc_down.core.GDocDown static method), 4
get_gdoc_id() (gdoc_down.core.GDocDown static method), 5

S

SCOPES (gdoc_down.core.GDocDown attribute), 4
service (gdoc_down.core.GDocDown attribute), 4