

untitled - [C:\Users\piriri\PycharmProjects\untitled] - C:\Users\piriri\AppData\Local\Programs\Python\Python35\Lib\site-packages\pytube\models.py - PyCharm 5.0.3

File Edit View Navigate Code Refactor Run Tools VCS Window Help

C: > Users > piriri > AppData > Local > Programs > Python > Python35 > Lib > site-packages > pytube > models.py

Project Files 1. Project

untitled

- .idea
- anything
- hello.py
- relativity.txt

api.py x hello.py x site-packages\...models.py x ntpath.py x SeongPil_Lee.py x

```
self.audio_codec = audio_codec
self.audio_bitrate = audio_bitrate
=8 * 1024, on_progress=None, self: <Video: H.264 (.mp4) - 720p - High> chunk_size: 8192 on_progress: None
overwrite=False): on_finish: None force_overwrite: False
...
path = os.path.normpath(path)
if os.path.isdir(path):
    filename = "{0}.{1}".format(self.filename, self.extension) filename: 'cat.mp4'
    path = os.path.join(path, filename) path: 'C:\Users\piriri\Desktop'
# TODO: If it's not a path, this should raise an ``OSError``.
# TODO: Move this into sli, this kind of logic probably shouldn't be
# handled by the library.
if os.path.isfile(path) and not force_overwrite:
    raise OSError("Conflicting filename: '{0}'".format(self.filename))
# TODO: Split up the downloading and OS jazz into separate functions.
response = urlopen(self.url)
meta_data = dict(response.info().items())
file_size = int(meta_data.get("Content-Length") or
                meta_data.get("content-length"))
self._bytes_received = 0
start = clock()
# TODO: Let's get rid of this whole try/except block, let ``OSError``s
# fail loudly.
try:
    with open(path, 'wb') as dst_file:
        while True:
            self._buffer = response.read(chunk_size)
```

Debug hello

Debugger Console →

Frames MainThread download, models.py:72 <module>, hello.py:5 execfile, _pydev_execfile.py:18 run, pydevd.py:1798 <module>, pydevd.py:2407

Variables

- chunk_size = {int} 8192
- filename = {str} 'cat.mp4'
- force_overwrite = {bool} False
- on_finish = {NoneType} None
- on_progress = {NoneType} None
- path = {str} 'C:\Users\piriri\Desktop'
- self = {Video} <Video: H.264 (.mp4) - 720p - High>

Watches

No watches

Favorites

Debug TODO Python Console Terminal

Unable to save settings: Failed to save settings. Please restart PyCharm (moments ago)

72:1 LF+ UTF-8

한 A 漢 ? 2016-01-17 오후 8:48

웹 및 Windows 검색

untitled - [C:\Users\piriri\PycharmProjects\untitled] - C:\Users\piriri\AppData\Local\Programs\Python\Python35\Lib\site-packages\pytube\models.py - PyCharm 5.0.3

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C: \ Users \ piriri \ AppData \ Local \ Programs \ Python \ Python35 \ Lib \ site-packages \ pytube \ models.py

Project Files | + | Settings | 1. Project | 2. Structure | Database

response의 headers 정보들을 딕셔너리로 할당
Content-Length 정보는 정수로 할당

```
meta_data = dict(response.info().items())
file_size = int(meta_data.get("Content-Length") or
                meta_data.get("content-length"))
self._bytes_received = 0
start = clock()
# TODO: Let's get rid of this whole try/except block, let ``OSError`` handle it.
# failover logic
try:
    with http.cookiejar.CookieJar() as cookie_jar:
        response = requests.get(url, stream=True, timeout=10, cookies=cookie_jar)
        headers = response.headers
        file_size = int(headers.get('Content-Length', '0'))
        self._bytes_received = 0
        start = clock()
        # TODO: Let's get rid of this whole try/except block, let ``OSError`` handle it.
        # failover logic
        try:
            with http.cookiejar.CookieJar() as cookie_jar:
                response = requests.get(url, stream=True, timeout=10, cookies=cookie_jar)
                headers = response.headers
                file_size = int(headers.get('Content-Length', '0'))
```

Debug hello

Debugger | Console | Frames | Variables | Watches

MainThread | download, models.py:80 | <module>, hello.py:5 | execfile, _pydev_execfile.py:18 | run, pydevd.py:1798 | <module>, pydevd.py:2407

Variables

- code = {int}
- debuglev = {int}
- fp = {BufIOBase}
- headers = {list} [('Last-Modified', 'Sat, 10 Oct 2015 07:07:03 GMT'), ('Content-Type', 'video/mp4'), ('Date', 'Sun, 17 Jan 2016 11:53:25 GMT'), ('Expires', 'Sun, 17 Jan 2016 11:53:25 GMT'), ('Cache-Control', 'private, max-age=21291'), ('Accept-Ranges', 'bytes'), ('Content-Length', '70485402'), ('Connection', 'close'), ('Alternate-Protocol', '443:quic,p=.45'), ('X-Content-Type-Options', 'nosniff'), ('Server', 'Cloudflare 1.0')]
- _payload = {str} "
- _unixfrom = {NoneType} None
- defects = {list} []
- epilogue = {NoneType} None
- policy = {Compat32} Compat32
- preamble = {NoneType} None

Watches

No watches

5: Debug | 6: TODO | Python Console | Terminal

Unable to save settings: Failed to save settings. Please restart PyCharm (3 minutes ago)

80:1 LF+ UTF-8

한 A 漢 ? 8:54 2016-01-17 웹 및 Windows 검색

untitled - [C:\Users\piriri\PycharmProjects\untitled] - C:\Users\piriri\AppData\Local\Programs\Python\Python35\Lib\site-packages\pytube\models.py - PyCharm 5.0.3

File Edit View Navigate Code Refactor Run Tools VCS Window Help

C: \ Users \ piriri \ AppData \ Local \ Programs \ Python \ Python35 \ Lib \ site-packages \ pytube \ models.py

Project Files 1. Project

untitled .idea anything hello.py relativity.txt

```
file_size = int(meta_data.get("Content-Length") or file_size: 70485402
                meta_data.get("content-length"))
self._bytes_received = 0
start = clock() start: 7.894781509948017e-07
# TODO: Let's get rid of this whole try/except block, let ``OSError`` fail loudly.
try:
    with open(path, 'wb') as dst_file dst_file: <_io.BufferedReader name='C:\Users\piriri\Desktop\cat.mp4'
        while True:
            self._buffer = response.read(chunk_size)
            # Check if the buffer is empty (aka no bytes remaining).
            if not self._buffer:
                if on_finish:
                    # TODO: We possibly want to flush the
                    # ``_bytes_recieved`` buffer before we call
                    # ``on_finish()``.
                    on_finish(path)
                break

            self._bytes_received += len(self._buffer)
            dst_file.write(self._buffer)
            if on_progress:
                on_progress(self._bytes_received, file_size, start)

except KeyboardInterrupt:
    # TODO: Move this into the cli, ``KeyboardInterrupt`` handling
    # should be taken care of by the client. Also you should be allowed
    # to disable this.
```

파일을 여는 open메서드에 경로와 형식(쓰기, 바이트코드)을 입력, 이를 dst_file의 값으로 넣음

response객체의 chunk_size를 읽어서 _buffer에 할당
*분산된 파일을 chunk라고 하는듯?

Debug hello

Debugger Console

Frames MainThread download, models.py:90 <module>, hello.py:5 execfile, _pydev_execfile.py:18 run, pydevd.py:1798 <module>, pydevd.py:2407

Variables

- chunk_size = {int} 8192
- dst_file = {BufferedWriter} <_io.BufferedReader name='C:\Users\piriri\Desktop\cat.mp4'>
- file_size = {int} 70485402
- filename = {str} 'cat.mp4'
- force_overwrite = {bool} False
- meta_data = {dict} {'Server': 'gvs 1.0', 'X-Content-Type-Options': 'nosniff', 'Date': 'Sun, 17 Jan 2016 11:53:25 GMT', 'Cache-Control': 'private, max-age=21291', 'Content-Type': 'video/mp4', '... View'}
- on_finish = {NoneType} None
- on_progress = {NoneType} None
- path = {str} 'C:\Users\piriri\Desktop\cat.mp4'
- response = {HTTPResponse} <http.client.HTTPResponse object at 0x0000012DAFF99470>
- self = {Video} <Video: H.264 (.mp4) - 720p - High>
- start = {float} 7.894781509948017e-07

Watches No watches

untitled - [C:\Users\piriri\PycharmProjects\untitled] - C:\Users\piriri\AppData\Local\Programs\Python\Python35\Lib\site-packages\pytube\models.py - PyCharm 5.0.3

File Edit View Navigate Code Refactor Run Tools VCS Window Help

C: \ Users \ piriri \ AppData \ Local \ Programs \ Python \ Python35 \ Lib \ site-packages \ pytube \ models.py

Project Files | + | - | ⚙ | 1. Project | Database

1. Project

untitled

- .idea
- anything
- hello.py
- relativity.txt

File

```
file_size = int(meta_data.get("Content-Length") or file_size: 70485402
    meta_data.get("content-length"))
self._bytes_received = 0
start = clock() start: 7.894781509948017e-07
# TODO: Let's get rid of this whole try/except block, let ``OSError``
# fail loudly.
try:
    with open(path, 'wb') as dst_file: dst_file: <_io.BufferedReader name='C:\Users\piriri\Desktop\cat.mp4'>
        while True:
            self._buffer = response.read(chunk_size)
            # Check if the buffer is empty (aka no bytes remaining).
            if not self._buffer:
                if on_finish:
                    # TODO: We possibly want to flush the
                    # ``_bytes_recieved`` buffer before we call
                    # ``on_finish()``.
                    on_finish(path)
                break
            self._bytes_received += len(self._buffer)
            dst_file.write(self._buffer)
            if on_progress:
                on_progress(self._bytes_received, file_size, start)
except KeyboardInterrupt:
    # TODO: Move this into the cli, ``KeyboardInterrupt`` handling
    # should be taken care of by the client. Also you should be allowed
    # to disable this.
```

_buffer에 값이 있음으로
건너 뛴

아까 0으로 할당한 _bytes_received
에 len(self._buffer)를 더하고 할당
*_buffer가 바이트 코드 이므로
길이가 곧 용량 크기

Debug hello

Debugger

Frames

MainThread

download, models.py:100

<module>, hello.py:5

execfile, _pydev_execfile.py:18

run, pydevd.py:1798

<module>, pydevd.py:2407

Variables

- chunk_size = {int} 8192
- dst_file = {BufferedWriter} <_io.BufferedReader name='C:\Users\piriri\Desktop\cat.mp4'>
- file_size = {int} 70485402
- filename = {str} 'cat.mp4'
- force_overwrite = {bool} False
- meta_data = {dict} {'Server': 'gvs 1.0', 'X-Content-Type-Options': 'nosniff', 'Date': 'Sun, 17 Jan 2016 11:53:25 GMT', 'Cache-Control': 'private, max-age=21291', 'Content-Type': 'video/mp4', '... View'}
- on_finish = {NoneType} None
- on_progress = {NoneType} None
- path = {str} 'C:\Users\piriri\Desktop\cat.mp4'
- response = {HTTPResponse} <http.client.HTTPResponse object at 0x0000012DAFF99470>
- self = {Video} <Video: H.264 (.mp4) - 720p - High>
- start = {float} 7.894781509948017e-07

Watches

No watches

Step to the next line in this file

100:1 LF UTF-8

한 A 漢 ? 2016-01-17

Windows 검색

Web 및 Windows 검색

PC

AI

Ps

E

Id

한 A 漢 ? 2016-01-17

File Edit View Navigate Code Refactor Run Tools VCS Window Help

C:\Users\piriri\AppData\Local\Programs\Python\Python35\Lib\site-packages\pytube\models.py

Project Files api.py hello.py site-packages\models.py message.py _policybase.py utils.py client.py request.py genericpath.py ntpath.py

untitled

.idea

anything

hello.py

relativity.txt

```
file_size = int(meta_data.get("Content-Length") or meta_data.get("content-length"))
self._bytes_received = 0
start = clock() start: 7.894781509948017e-07
# TODO: Let's get rid of this whole try/except block, let ``OSError`` handle it loudly.
try:
    with open(path, 'wb') as dst_file: dst_file: <_io.BufferedReader name='C:\Users\piriri\Desktop\boat.mp4'>
        while True:
            self._buffer = response.read(chunk_size)
            # Check if the buffer is empty (aka no bytes remaining).
            if not self._buffer:
                if on_finish:
                    # TODO: We possibly want to flush the
                    # ``_bytes_recieved`` buffer before we call
                    # ``on_finish()``.
                    on_finish(path)
                break
            self._bytes_received += len(self._buffer)
            dst_file.write(self._buffer)
            if on_progress:
                on_progress(self._bytes_received, file_size, start)
except KeyboardInterrupt:
    # TODO: Move this into the old ``KeyboardInterrupt`` handling
    # should be taken care of by the client. Also you should be allowed
    # to disable this.
```

The screenshot shows a PyCharm IDE interface with a dark theme. The top navigation bar lists several files: Project Files, api.py, hello.py, site-packages\...models.py, message.py, _policybase.py, utils.py, client.py, request.py, genericpath.py, and ntpath.py. The left sidebar displays the project structure under 'untitled' with files like .idea, anything, hello.py, and relativity.txt. The main code editor contains the following Python code:

```
file_size = int(meta_data.get("Content-Length") or meta_data.get("content-length"))
self._bytes_received = 0
start = clock() start: 7.894781509948017e-07
# TODO: Let's get rid of this whole try/except block, let ``OSErrors`` handle it.
# fail loudly.
try:
    with open(path, 'wb') as dst_file: dst_file: <_io.BufferedReader name='C:\Users\piriri\Desktop\test.mp4'>
        while True:
            self._buffer = response.read(chunk_size)
            # Check if the buffer is empty (aka no bytes remaining).
            if not self._buffer:
                if on_finish:
                    # TODO: We possibly want to flush the
                    # ``_bytes_recieved`` buffer before we call
                    # ``on_finish()``.
                    on_finish(path)
                break

            self._bytes_received += len(self._buffer)
            dst_file.write(self._buffer)
            if on_progress:
                on_progress(self._bytes_received, file_size, start)

except KeyboardInterrupt:
    # TODO: Move this into the osi, ``KeyboardInterrupt`` handling
    # should be taken care of by the client. Also you should be allowed
    # to disable this.
```

두번째 while 순회



