

## (四) 利用imageio库生成GIF动图

笔记本:	Markdown笔记		
创建时间:	2018/11/11 10:34	更新时间:	2018/11/18 14:46
作者:	FWJ		
URL:	<a href="https://pypi.org/project/imageio/">https://pypi.org/project/imageio/</a>		

---

# imageio库

---

安装

```
pip install imageio
```

例子使用:

```
import imageio
im = imageio.imread('imageio:astronaut.png')
im.shape # im is a numpy array (512, 512, 3)
imageio.imwrite('astronaut-gray.jpg', im[:, :, 0])
```

# ins页面分析

---



<https://www.json.cn/>

```

    _type_name : 'graphvideo',
    'id' : '1907282308010281821',
    'edge_media_to_caption' : {
      'edges' : {
        {
          'node' : {
            'text' : '아ㅋㅋㅋㅋㅋㅋㅋㅋㅋㅋ'
          }
        }
      }
    },
    'shortcode' : 'Bp39PcGUjVd',
    'edge_media_to_comment' : {
      'count' : 4911
    },
    'comments_disabled' : false,
    'taken_at_timestamp' : 1541583620,
    'dimensions' : {
      'height' : 750,
      'width' : 750
    },
    'display_url' : "https://scontent-lax3-1.edinstagm.com/vp/d100c1602213476723716e5b7Efc9f64/58P2F686/151_2885-15/e/15/42852395_257266988273098_303247458813550579_n.jpg",
    'edge_liked_by' : {
      'count' : 146269
    },
    'edge_media_preview_like' : {
      'count' : 146269
    },
    'location' : null,
    'gating_info' : null,
    'media_preview' : "ACoqDHIwY46fmrz/AE9ab3jyeRyHfcP1q5ab7cvF7qP8z/hZzLqL",
    'owner' : {
      'id' : '664918253',
      'username' : 'tina_3'
    }
  }
}

```

```

config": @Object{...},
"supports_es6": true,
"country_code": "US",
"language_code": "zh-cn",
"locale": "zh_CN",
"entry_data": @{
  "ProfilePage": @[
    @{
      "logging_page_id": "profilePage_654918253",
      "show_suggested_profiles": false,
      "graphql": @{
        "user": @{
          "biography": "130715 /  facebook & youtube

```

#권율이 #울동이 #율이tv”

```
"blocked_by_viewer": false,
"country_block": false,
"external_url": "https://www.youtube.com/channel/UCeXdmNuOug_VmHY88sZkVSA",
"external_url_linkshimmed": "
```

[https://l.instagram.com/?u=https%3A%2F%2Fwww.youtube.com%2Fchannel%2FUCeXdmHu0ug\\_VmHY88sZkVSA&e=ATMGLh-g5NaPAgyblySd0V46vG47Y7bdqkP\\_t\\_Ln7WRduldh5moKW5-Qchx5W2ui dG9Rqa2T0oe8Df5x](https://l.instagram.com/?u=https%3A%2F%2Fwww.youtube.com%2Fchannel%2FUCeXdmHu0ug_VmHY88sZkVSA&e=ATMGLh-g5NaPAgyblySd0V46vG47Y7bdqkP_t_Ln7WRduldh5moKW5-Qchx5W2ui dG9Rqa2T0oe8Df5x)

```

        "profile_pic_url": "
https://scontent-lax3-1.edninstagram.com/vp/9b2f06b5584df772d382ee8298bdfa91/5C781603/t51.2885-
19/s150x150/41502676_2220522711526755_4186971833695731712_n.jpg
",
        "profile_pic_url_hd": "
https://scontent-lax3-1.edninstagram.com/vp/8ee47dda7caf34d1b0efaff034db929d/5C821A7B/t51.2885-
19/s320x320/41502676_2220522711526755_4186971833695731712_n.jpg
",
        "requested_by_viewer": false,
        "username": "1004yul_i",
        "connected_fb_page": null,
        "edge_felix_video_timeline": @Object{...},
        "edge_owner_to_timeline_media": @Object{...},
        "edge_saved_media": @Object{...},
        "edge_media_collections": @Object{...}
    }
},
    "felix_onboarding_video_resources": @Object{...}
}

    "edge_owner_to_timeline_media": @{
        "count": 2333,
        "page_info": @{
            "has_next_page": true,
            "end_cursor": "QVFBUdMZHRLcOEtcjR6MjBBTDhpcHkxcTNYdVZVZXRkb2OFFZcVJpUWVqU3BDdGltcDRCc0VYc
        }
        "edges": @Array[12]
    },
    "edge_saved_media": @Object{...},
    "edge_media_collections": @Object{...}
}
}

```

## pyquery库

```

for item in items:
    if item.text().strip().startswith('window._sharedData'):
        js_data = json.loads(item.text()[21:-1], encoding='utf-8')
        edges = js_data["entry_data"]["ProfilePage"][0]["graphql"]["user"]
        ["edge_owner_to_timeline_media"]["edges"]
        for edge in edges:
            imageurl = edge['node']['display_url']
            print(imageurl)
            save_img(imageurl, number)
            imageurls.append(imageurl)
            number = number + 1

```

## proxy代理设置

```
proxie = {
    "http": "http://127.0.0.1:12333",
    "https": "http://127.0.0.1:12333",
}

requests.get(url, proxies=proxie)
```

参考资料:

<http://dae.me/blog/1959/using-pythons-urllib2-or-requests-with-a-socks5-proxy/>

<https://www.jianshu.com/p/94e23184b914>

<https://hachi-jyx.github.io/2017/05/15/PyQuery-%E5%BA%93%E5%AD%A6%E4%B9%A0%E7%AC%94%E8%AE%B0/>

<http://www.runoob.com/python/att-string-startswith.html>

## 图片下载

---

统一使用requests库

```
def save_img(imageurl, number, file_path='ins'):
    '''
    下载
    '''

    # urlretrieve方法
    # urlretrieve(imageurl, "{}.jpg".format(number))

    try:
        if not os.path.exists(file_path):
            print('文件夹不存在', file_path, '正在自动创建')
            os.makedirs(file_path)

        file_suffix = os.path.splitext(imageurl)[1]
        filename = '{}{}{}'.format(file_path, os.sep, number, file_suffix)
        # urllib.request.urlretrieve(imageurl, filename=filename)
        # 墙的问题, 还是用requests
        ir = requests.get(imageurl, proxies=proxies)
        if ir.status_code == 200:
            open(filename, 'wb').write(ir.content)

    except IOError as e:
        print('文件操作失败', e)
    except Exception as e:
        print('错误: ', e)
```

参考资料:

<https://www.jianshu.com/p/938763947de3>

<https://segmentfault.com/q/1010000007024942>

## 后续

---