

Whoisの闇

Vade Japan株式会社 / JPAAWG

平野善隆



今日のゴール

Pythonを使って
Whois'情報を
処理したい

スライドが

59ページも

ありますよ！



Whois とは？

Whoisで得られる情報

- レジストリ
- レジストラ 名前、住所、メールアドレスなど
- レジストラント

- 作成日
- 最終更新日
- Name Server
- DNSSECの情報



レジストリ

ドメインの元締め
.jpを管理

レジストラ

ドメインを登録する業者
example.jpを管理

レジストラント

ドメインを使う人
example.jpの所有者



whois jpaawg.org

Domain Name: jpaawg.org

Updated Date: 2024-08-27T06:10:43Z

Creation Date: 2018-07-13T06:10:13Z

Registry Expiry Date: 2025-07-13T06:10:13Z

Registrar: Squarespace Domains II LLC

Domain Status: clientDeleteProhibited <https://icann.org/epp#clientDeleteProhibited>

Domain Status: clientTransferProhibited <https://icann.org/epp#clientTransferProhibited>

Registrant Name: REDACTED FOR PRIVACY

Admin Name: REDACTED FOR PRIVACY

Tech Name: REDACTED FOR PRIVACY

Name Server: ns-cloud-e1.googledomains.com

Name Server: ns-cloud-e3.googledomains.com

Name Server: ns-cloud-e2.googledomains.com

Name Server: ns-cloud-e4.googledomains.com

DNSSEC: signedDelegation



.jpの場合は?



whois hiragana.jp

[Domain Name]	HIRAGANA.JP
[登録者名] [Registrant]	平野善隆 Yoshitaka Hirano
[Name Server]	ns1.hirano.cc
[Name Server]	ukulele.orcaland.gr.jp
[Signing Key]	
[登録年月日]	2002/08/04
[有効期限]	2025/08/31
[状態]	Active
[最終更新]	2024/10/16 10:55:31 (JST)

whois

[Domain Name]

[登録者名]

[Registrant]

[Name Server]

[Name Server]

[Signing Key]

[登録年月日]

[有効期限]

[状態]

[最終更新]

ぜんぜん

フォーマット

違うやん



2002/08/04

2025/08/31

Active

2024/10/16 10:55:31 (JST)

whois interlingua.co.jp

a. [ドメイン名]	INTERLINGUA.CO.JP
e. [そしきめい]	ゆうげんがいしゃいんたーりんが
f. [組織名]	有限会社インターリンガ
g. [Organization]	Interlingua, Inc.
k. [組織種別]	有限会社
l. [Organization Type]	limited
m. [登録担当者]	YH56801JP
n. [技術連絡担当者]	YH56802JP
p. [ネームサーバ]	ns1.hirano.cc
p. [ネームサーバ]	ukulele.orcaland.gr.jp
s. [署名鍵]	
[状態]	Connected (2025/06/30)
[登録年月日]	2004/06/14
[接続年月日]	2004/06/15
[最終更新]	2024/07/01 01:04:15 (JST)

whois

- a. [ドメイン名]
- e. [そしきめい]
- f. [組織名]
- g. [Organization]
- k. [組織種別]
- l. [Organization]
- m. [登録担当者]
- n. [技術連絡担当者]
- p. [ネームサーバ]
- p. [ネームサーバ]
- s. [署名鍵]
- [状態]
- [登録年月日]
- [接続年月日]
- [最終更新]

これもまた
違うやん

YH5680ZJP

ns1.hirano.cc

ukulele.orcaland.gr.jp

Connected (2025/06/30)

2004/06/14

2004/06/15

2024/07/01 01:04:15 (JST)




whois imail.ne.jp

a. [ドメイン名]	IMAIL.NE.JP
b. [ねっとわーくさーびすめい]	あいめーる
c. [ネットワークサービス名]	アイメール
d. [Network Service Name]	iMail
k. [組織種別]	ネットワークサービス
l. [Organization Type]	Network Service
m. [登録担当者]	YH2576JP
n. [技術連絡担当者]	YH1048JP
p. [ネームサーバ]	ns1.hirano.cc
p. [ネームサーバ]	ukulele.orcaland.gr.jp
s. [署名鍵]	
[状態]	Connected (2025/07/31)
[登録年月日]	2000/07/24
[接続年月日]	2000/07/27
[最終更新]	2024/08/01 01:02:45 (JST)

びみよーに違う

• a. [ドメイン名]	INTERI	• a. [ドメイン名]	IMAIL.NE.JP
• e. [そしきめい]	ゆうげ	• b. [ねっとわーくさーびすめい]	あいめーる
• f. [組織名]	有限会社	• c. [ネットワークサービス名]	アイメール
• g. [Organization]	Interlingu	• d. [Network Service Name]	iMail
• k. [組織種別]	有限会社	• k. [組織種別]	ネットワークサービス
• l. [Organization Type]	limited	• l. [Organization Type]	Network Service
• m. [登録担当者]	YH568	• m. [登録担当者]	YH2576JP
• n. [技術連絡担当者]	YH568	• n. [技術連絡担当者]	YH1048JP
• p. [ネームサーバ]	ns1.hir	• p. [ネームサーバ]	ns1.hirano.cc
• p. [ネームサーバ]	ukulele	• p. [ネームサーバ]	ukulele.orcaland.gr.jp
• s. [署名鍵]		• s. [署名鍵]	
• [状態]	Connecte	• [状態]	Connected (2025/07/31)
• [登録年月日]	2004/0	• [登録年月日]	2000/07/24
• [接続年月日]	2004/0	• [接続年月日]	2000/07/27
• [最終更新]	2024/0	• [最終更新]	2024/08/01 01:02:45 (J



きっと誰かが
便利なツールを
作ってるはず



Python whois

で探してみる

ググる

whois python

すべて

画像

ショッピング

動画

ニュース

書籍



Qiita

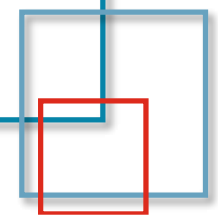
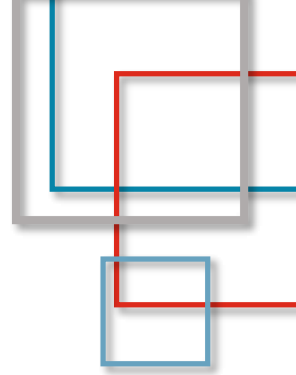
<https://qiita.com> > Python

PythonのWhoisライブラリの闇

2021/09/08 — whoisは太古のインターネットのプロトコルのひとつ。本来の目的は、ドメイン名をIPアドレスと紐付け、そのIPアドレスがどのサーバにアクセスして、情報の欲しいドメイン名を入れる、というシンプルなものである...



3年前の闇

- 
- 
- whois
 - python-whois
 - pythonwhois

3年前の状況 (2021/9月)

ライブラリ	github	最終更新	★
whois	DannyCork/ python-whois	2021/04	160
python-whois	richardpenman/ whois	2020/06	149
pythonwhois	joepie91/ python-whois	2014/07	367

ちよー 名前www

ライブラリ	github	最終更新	★
whois	DannyCork/ python-whois	2021/04	160
python-whois	richardpenman/ whois	2020/06	149
pythonwhois	joepie91/ python-whois	2014/07	367



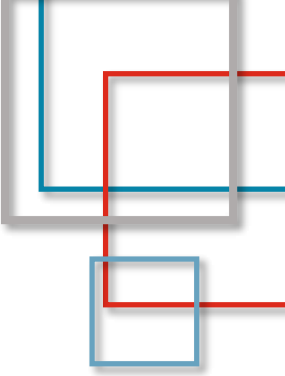
- whois

- python-whois

- pythonwhois

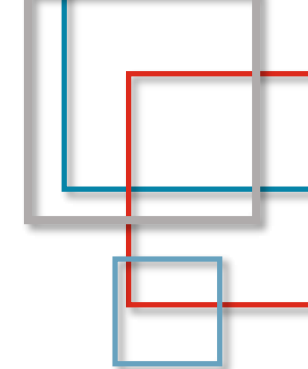
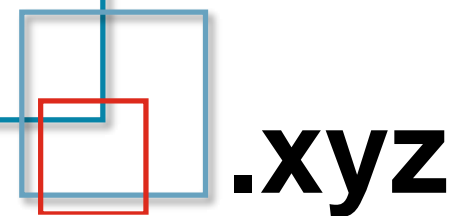


```
{  
'creation_date': None,  
'dnssec': False,  
'expiration_date': datetime.datetime(2022, 6, 30, 0, 0),  
'last_updated': datetime.datetime(2021, 7, 1, 1, 8, 4),  
'name': 'interlingua.co.jp',  
'name_servers': None,  
'registrant': "",  
'registrant_country': "",  
'registrar': "",  
'status': 'Connected (2022/06/30)',  
'statuses': ['Connected (2022/06/30)']  
}
```



```
Traceback (most recent call last):  
  File "/home/hirano/test/a.py", line 6, in <module>  
    pprint.pprint(whois.query("imail.ne.jp"))  
AttributeError: 'NoneType' object has no attribute  
'__dict__'
```





```
No whois server is known for this kind of object.
```

```
Traceback (most recent call last):
```

```
File "/root/jpaawg/tsuritai/tsuritai-scanner/a.py", line 6, in <module>
```

```
    pprint.pprint(whois.query("aaa.xyz").__dict__)
```

```
File "/root/jpaawg/tsuritai/tsuritai-scanner/.venv/lib/python3.9/site-packages/whois/__init__
```

```
    pd = do_parse(do_query(d, force, cache_file, slow_down, ignore_returncode), tld)
```

```
File "/root/jpaawg/tsuritai/tsuritai-scanner/.venv/lib/python3.9/site-packages/whois/_2_pa
```

```
    raise FailedParsingWhoisOutput(whois_str)
```

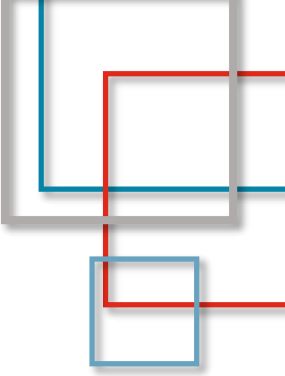
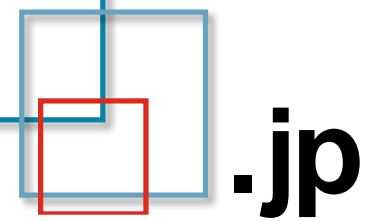
```
whois.exceptions.FailedParsingWhoisOutput: No whois server is known for this kind of object.
```



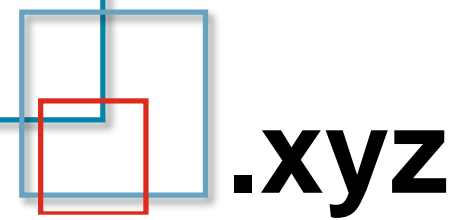
- whois

- python-whois

- pythonwhois

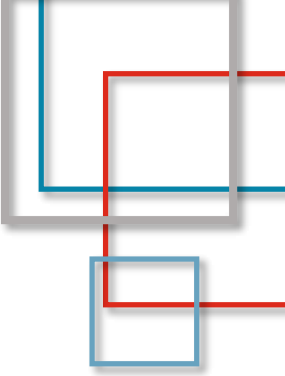


```
{'creation_date': None,  
'domain_name': None,  
'name_servers': None,  
'registrant_org': None,  
'status': None,  
'updated_date': None}
```



.xyz

```
{'address': None,  
'city': None,  
'country': None,  
'creation_date': None,  
'dnssec': None,  
'domain_name': None,  
'emails': None,  
'expiration_date': None,  
'name': None,  
'name_servers': None,  
'org': None,  
'referral_url': None,  
'registrar': None,  
'state': None,  
'status': None,  
'updated_date': None,  
'whois_server': None,  
'zipcode': None}
```





- whois

- python-whois

- pythonwhois

```
Traceback (most recent call last):
```

```
File "/usr/local/lib/python3.9/sre_parse.py", line 1039, in parse_template  
    this = chr(ESCAPES[this][1])
```

```
KeyError: '\\s'
```

```
During handling of the above exception, another exception occurred:
```

```
Traceback (most recent call last):
```

```
File "/home/hirano/test/a.py", line 3, in <module>
```

```
    from pythonwhois import get_whois
```

```
File "/home/hirano/test/.venv/lib/python3.9/site-packages/pythonwhois/__init__.py", line 1,
```

```
    from . import net, parse
```

```
File "/home/hirano/test/.venv/lib/python3.9/site-packages/pythonwhois/parse.py", line 422,
```

```
    registrant_regexes = [preprocess_regex(regex) for regex in registrant_regexes]
```

```
File "/home/hirano/test/.venv/lib/python3.9/site-packages/pythonwhois/parse.py", line 422,
```

```
    registrant_regexes = [preprocess_regex(regex) for regex in registrant_regexes]
```

```
File "/home/hirano/test/.venv/lib/python3.9/site-packages/pythonwhois/parse.py", line 215,
```

```
    regex = re.sub(r"\\s*(\\?P<([>]+)>\\.\\.+)", r"\\s*(?P<\\1>\\S.*)", regex)
```

```
File "/usr/local/lib/python3.9/re.py", line 210, in sub
```

```
    return _compile(pattern, flags).sub(repl, string, count)
```

```
File "/usr/local/lib/python3.9/re.py", line 327, in _subx
```

```
    template = _compile_repl(template, pattern)
```

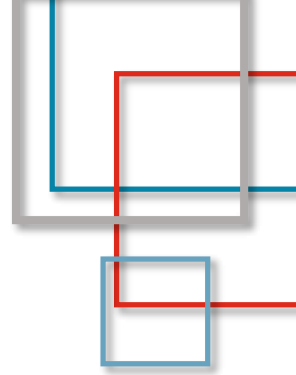
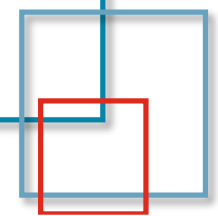
```
File "/usr/local/lib/python3.9/re.py", line 318, in _compile_repl
```

```
    return sre_parse.parse_template(repl, pattern)
```

```
File "/usr/local/lib/python3.9/sre_parse.py", line 1042, in parse_template
```

```
    raise s.error('bad escape %s' % this, len(this))
```

```
re.error: bad escape \\s at position 0
```



Python3では
動かない

Patchしてみた

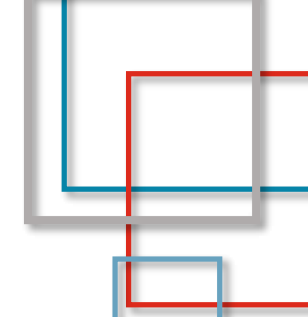
```
203     203     def preprocess_regex(regex):
204     204         # Fix for #2; prevents a ridiculous amount of varying size permutations.
205     -   regex = re.sub(r"\\s*(\\?P<([>]+)>\\.\\.+\\)", r"\\s*(?P<\\1>\\S.*)", regex)
205     +   regex = re.sub(r"\\s*(\\?P<([>]+)>\\.\\.+\\)", r"\\s*(?P<\\1>\\S.*)", regex)
206     206         # Experimental fix for #18; removes unnecessary variable-size whitespace
207     207         # matching. since we're stripping results anyway.
```



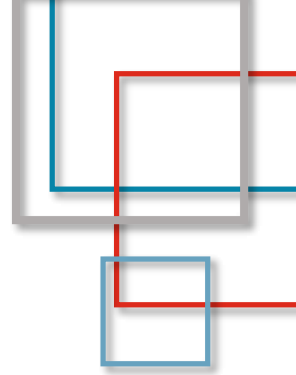
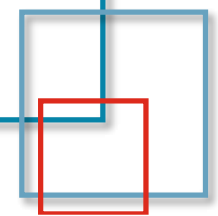

.co.jp

```
{'contacts': {'admin': {'changedate': datetime.datetime(2004, 6, 14, 4, 31, 1),  
                        'email': 'domain@interlingua.co.jp',  
                        'firstname': 'Yoshitaka',  
                        'handle': 'YH5591JP',  
                        'lastname': 'Hirano',  
                        'name': 'Yoshitaka Hirano',  
                        'organization': 'Interlingua, Inc.'},  
             'billing': None,  
             'registrant': {'organization': 'Interlingua, Inc.'},  
             'tech': {'changedate': datetime.datetime(2004, 11, 17, 9, 10, 48),  
                     'email': 'yo@hirano.cc',  
                     'fax': '03-3904-2501',  
                     'firstname': 'Yoshitaka',  
                     'handle': 'YH5927JP',  
                     'lastname': 'Hirano',  
                     'name': 'Yoshitaka Hirano',  
                     'organization': 'Interlingua, Inc.',  
                     'phone': '03-3904-2501'}}},  
'creation_date': [datetime.datetime(2004, 6, 14, 0, 0)],  
'nameservers': ['ns1.qt-dns.com', 'ns1.qt-dns.jp', 'ns1.qt-dns.net'],  
'status': ['Connected (2022/06/30)'],  
'updated_date': [datetime.datetime(2021, 7, 1, 1, 8, 4)]}
```

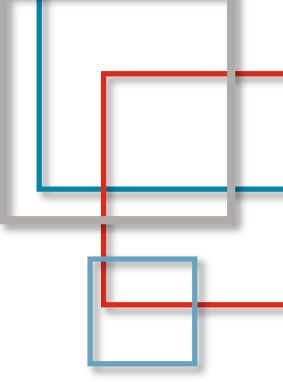
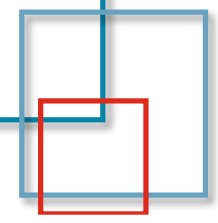
```
{'contacts': {'admin': {'changedate': datetime.datetime(2000, 7, 22, 4, 33, 1),  
                        'firstname': 'Yoshitaka',  
                        'handle': 'YH2576JP',  
                        'lastname': 'Hirano',  
                        'name': 'Yoshitaka Hirano',  
                        'organization': 'Hirano, Yoshitaka'},  
             'billing': None,  
             'registrant': None,  
             'tech': {'changedate': datetime.datetime(2000, 4, 7, 17, 9, 44),  
                     'email': 'hirano@girigiri.ne.jp',  
                     'firstname': 'Yoshitaka',  
                     'handle': 'YH1048JP',  
                     'lastname': 'Hirano',  
                     'name': 'Yoshitaka Hirano',  
                     'organization': 'Girigiri Group Company',  
                     'phone': '03-5731-6270'}}},  
'creation_date': [datetime.datetime(2000, 7, 24, 0, 0)],  
'nameservers': ['ns1.hirano.cc', 'ukulele.orcaland.gr.jp'],  
'status': ['Connected (2022/07/31)'],  
'updated_date': [datetime.datetime(2021, 8, 1, 1, 4, 58)]}
```



```
{'contacts': {'admin': None, 'billing': None, 'registrant': None, 'tech': None},  
'creation_date': [datetime.datetime(2016, 3, 8, 21, 38, 58),  
                  datetime.datetime(2016, 3, 8, 21, 38, 58)],  
'emails': ['domainabuse@service.aliyun.com'],  
'expiration_date': [datetime.datetime(2022, 3, 8, 23, 59, 59)],  
'id': ['D18453057-CNIC'],  
'nameservers': ['DNS9.HICHINA.COM', 'DNS10.HICHINA.COM'],  
'registrar': ['Alibaba Cloud Computing Ltd. d/b/a HiChina (www.net.cn)'],  
'status': ['ok https://icann.org/epp#ok'],  
'updated_date': [datetime.datetime(2021, 2, 8, 15, 24, 45)],  
'whois_server': ['grs-whois.hichina.com']}
```



2014年の
ライブラリが
一番ましだった



あれから3年



- whois

- python-whois

- pythonwhois

ライブラリ「whois」

whois 1.20240129.2

✓ 最新バージョン

```
pip install whois
```

Python package for retrieving WHOIS information of domains.

ナビゲーション

☰ プロジェクトの説明

🕒 リリース履歴

📄 ファイルをダウンロード

Verified details ✓

These details have been *verified by PyPI*

メンテナ



Richard.Penman

プロジェクトの説明

github:python-whois

pypi: whois

- A Python package for retrieving WHOIS

NOTICE: AS OF 2024-02-03; THIS SOFTWARE IS NOW UNSUPPORTED

ALL FURTHER ACTIONS WILL TAKE PLACE AT [WhoisDomain](#)

For all further info:

- see [WhoisDomain](#)
- all future development will take place on [WhoisDomain](#)

github:python-whois

pypi: whois

- A Python package for retrieving WHOIS information of DOMAIN'S ONLY.

NOTICE: AS OF 2024-02-03; THIS SOFTWARE IS NOW UNSUPPORTED

ALL FURTHER ACTIONS WILL TAKE PLACE AT [WhoisDomain](#)

For all further info:

- see [WhoisDomain](#)
- all future development will take place on [WhoisDomain](#)

3年前の状況 (2024/10月)

ライブラリ	github	最終更新	★
whoisdomain	mboot-github/ WhoisDomain	2024/01	45
python-whois	richardpenman/ whois	2024/04	149 →374
pythonwhois	joepie91/ python-whois	2014/07	367 →399

- whoisdomain
- python-whois
- pythonwhois



.co.jp (先代のwhois)

```
{  
  'creation_date': None,  
  'dnssec': False,  
  'expiration_date': datetime.datetime(2022, 6, 30, 0, 0),  
  'last_updated': datetime.datetime(2021, 7, 1, 1, 8, 4),  
  'name': 'interlingua.co.jp',  
  'name_servers': None,  
  'registrant': '',  
  'registrant_country': '',  
  'registrar': '',  
  'status': 'Connected (2022/06/30)',  
  'statuses': ['Connected (2022/06/30)']  
}
```

.co.jp (whoisdomain)

```
{  
  'creation_date': datetime.datetime(2004, 6, 14, 0, 0),  
  'dnssec': False,  
  'emails': [],  
  'expiration_date': None, ← 前は取れていた  
  'last_updated': datetime.datetime(2024, 7, 1, 1, 4, 15),  
  'name': 'interlingua.co.jp',  
  'name_servers': ['ns1.hirano.cc', 'ukulele.orcaland.gr.jp'],  
  'registrant': '',  
  'registrant_country': '',  
  'registrar': 'JPRS',  
  'status': 'Connected (2025/06/30)',  
  'statuses': ['Connected (2025/06/30)'],  
  'tld': 'co.jp'  
}
```



.ne.jp

```
{'creation_date': datetime.datetime(2000, 7, 24, 0, 0),  
'dnssec': False,  
'emails': [],  
'expiration_date': None,  
'last_updated': datetime.datetime(2024, 8, 1, 1, 2, 45),  
'name': 'imail.ne.jp',  
'name_servers': ['ns1.hirano.cc', 'ukulele.orcaland.gr.jp'],  
'registrant': '',  
'registrant_country': '',  
'registrar': 'JPRS',  
'status': 'Connected (2025/07/31)',  
'statuses': ['Connected (2025/07/31)'],  
'tld': 'ne.jp'}
```

死ななくなった



.xyz

```
{'creation_date': datetime.datetime(2016, 3, 8, 21, 38, 58),  
'dnssec': False,  
'emails': ['domainabuse@service.aliyun.com'],  
'expiration_date': datetime.datetime(2026, 3, 8, 23, 59, 59),  
'last_updated': datetime.datetime(2024, 3, 25, 12, 2, 21),  
'name': 'aaa.xyz',  
'name_servers': ['dns10.hichina.com', 'dns9.hichina.com'],  
'registrant': 'liuguoshuai',  
'registrant_country': 'CN',  
'registrar': 'Alibaba Cloud Computing Ltd. d/b/a HiChina (www.net.cn)',  
'status': 'ok https://icann.org/epp#ok',  
'statuses': ['ok https://icann.org/epp#ok'],  
'tld': 'xyz'}
```

死ななくなつた



では、最新の
.musicは?

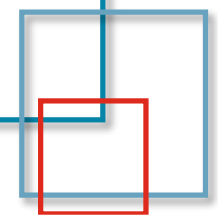
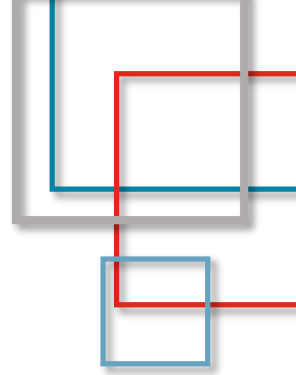


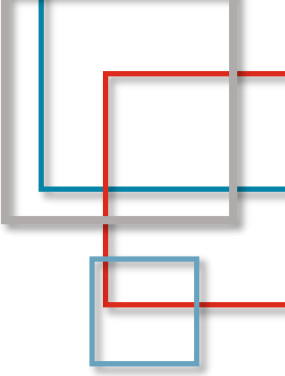
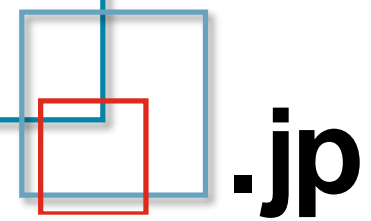
.music

```
{'creation_date': datetime.datetime(2023, 9, 22, 20, 12, 24),  
'dnssec': False,  
'emails': ['sales@101domain.com'],  
'expiration_date': datetime.datetime(2033, 9, 22, 23, 59, 59),  
'last_updated': datetime.datetime(2024, 9, 3, 16, 2, 6, 671000),  
'name': 'ladygaga.music',  
'name_servers': ['ns1.101domain.com', 'ns2.101domain.com'],  
'registrant': 'Pryor Cashman LLP',  
'registrant_country': 'US',  
'registrar': '101domain GRS Ltd.',  
'status': 'clientTransferProhibited '  
    'https://icann.org/epp#clientTransferProhibited',  
'statuses': ['clientTransferProhibited '  
    'https://icann.org/epp#clientTransferProhibited'],
```



whoisdomain
やるねえ

- 
- 
- whoisdomain
 - python-whois
 - pythonwhois

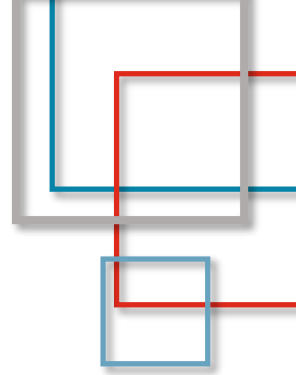


.jp

```
{'creation_date': datetime.datetime(2002, 8, 4, 0, 0),  
'domain_name': 'HIRAGANA.JP',  
'expiration_date': datetime.datetime(2025, 8, 31, 0, 0),  
'name_servers': ['ns1.hirano.cc', 'ukulele.orcaland.gr.jp'],  
'registrant_org': 'Yoshitaka Hirano',  
'status': 'Active',  
'updated_date': '2024/10/16 10:55:31 (JST)'}
```



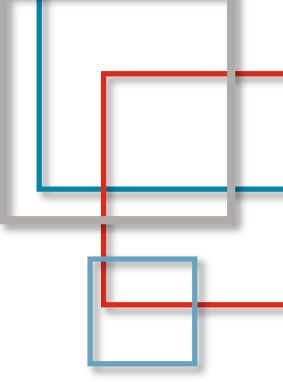
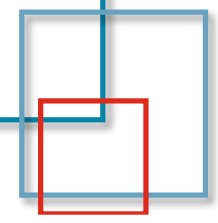
.co.jp

- {'creation_date': datetime.datetime(2004, 6, 14, 0, 0),
- 'domain_name': None,
- 'expiration_date': None,
- 'name_servers': None,
- 'registrant_org': 'Interlingua, Inc.',
- 'status': 'Connected (2025/06/30)',
- 'updated_date': '2024/07/01 01:04:15 (JST)'}




.music

```
{'address': ['REDACTED FOR PRIVACY', 'c/o Pryor Cashman LLP', '7 Times Square'],  
'city': ['REDACTED FOR PRIVACY', 'New York'],  
'country': 'US',  
'creation_date': datetime.datetime(2023, 9, 22, 20, 12, 24),  
'dnssec': 'unsigned',  
'domain_name': ['ladygaga.music', 'LADYGAGA.MUSIC'],  
'emails': ['sales@101domain.com', 'abuse@101domain.com'],  
'expiration_date': datetime.datetime(2033, 9, 22, 23, 59, 59),  
'name': 'REDACTED FOR PRIVACY',  
'name_servers': ['ns1.101domain.com',  
                 'ns2.101domain.com',  
                 'NS2.101DOMAIN.COM',  
                 'NS1.101DOMAIN.COM'],  
'org': 'Pryor Cashman LLP',  
'referral_url': None,  
'registrant_postal_code': ['REDACTED FOR PRIVACY', '10036'],  
'registrar': 'https://www.101domain.com/',  
'state': 'NY',  
'status': ['clientTransferProhibited '  
          'https://icann.org/epp#clientTransferProhibited',  
          'clientTransferProhibited '  
          'http://www.icann.org/epp#clientTransferProhibited'],  
'updated_date': [datetime.datetime(2024, 9, 3, 16, 2, 6, 671000),  
                 datetime.datetime(2024, 10, 15, 14, 53, 28)],  
'whois_server': 'whois.101domain.com'}
```



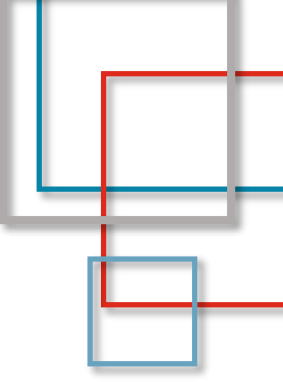
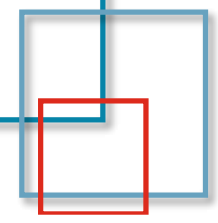
python-whoisも
成長したねえ

- 
- whoisdomain
 - python-whois
 - pythonwhois

.music

```
{'contacts': {'admin': {'city': 'REDACTED FOR PRIVACY',  
  'country': 'REDACTED FOR PRIVACY',  
  'email': 'Please query the RDDS service of the '  
    'Registrar of Record identified in this '  
    'output for information on how to contact the '  
      'Registrant, Admin, or Tech contact of the '  
      'queried domain name.',  
  'fax': 'REDACTED FOR PRIVACY',  
  'handle': 'REDACTED FOR PRIVACY',  
  'name': 'REDACTED FOR PRIVACY',  
  'organization': 'REDACTED FOR PRIVACY',  
  'phone': 'REDACTED FOR PRIVACY',  
  'postalcode': 'REDACTED FOR PRIVACY',  
  'state': 'REDACTED FOR PRIVACY',  
  'street': 'REDACTED FOR PRIVACY'},  
  'billing': {'city': 'REDACTED FOR PRIVACY',  
    'country': 'REDACTED FOR PRIVACY',  
    'email': 'Please query the RDDS service of the '  
      'Registrar of Record identified in this '  
      'output for information on how to contact '  
      'the Registrant, Admin, or Tech contact of '  
      'the queried domain name.',  
    'fax': 'REDACTED FOR PRIVACY',  
    'handle': 'REDACTED FOR PRIVACY',  
    'name': 'REDACTED FOR PRIVACY',  
    'organization': 'REDACTED FOR PRIVACY',  
    'phone': 'REDACTED FOR PRIVACY',  
    'postalcode': 'REDACTED FOR PRIVACY',  
    'state': 'REDACTED FOR PRIVACY',  
    'street': 'REDACTED FOR PRIVACY'},
```

```
'registrant': {'city': 'REDACTED FOR PRIVACY',  
  'country': 'US',  
  'email': 'Please query the RDDS service of the '  
    'Registrar of Record identified in this '  
    'output for information on how to '  
    'contact the Registrant, Admin, or Tech '  
    'contact of the queried domain name.',  
  'fax': 'REDACTED FOR PRIVACY',  
  'handle': 'REDACTED FOR PRIVACY',  
  'name': 'REDACTED FOR PRIVACY',  
  'organization': 'Pryor Cashman LLP',  
  'phone': 'REDACTED FOR PRIVACY',  
  'postalcode': 'REDACTED FOR PRIVACY',  
  'state': 'NY',  
  'street': 'REDACTED FOR PRIVACY'},  
  'tech': {'city': 'REDACTED FOR PRIVACY',  
    'country': 'REDACTED FOR PRIVACY',  
    'email': 'Please query the RDDS service of the '  
      'Registrar of Record identified in this output '  
      'for information on how to contact the '  
      'Registrant, Admin, or Tech contact of the '  
      'queried domain name.',  
    'fax': 'REDACTED FOR PRIVACY',  
    'handle': 'REDACTED FOR PRIVACY',  
    'name': 'REDACTED FOR PRIVACY',  
    'organization': 'REDACTED FOR PRIVACY',  
    'phone': 'REDACTED FOR PRIVACY',  
    'postalcode': 'REDACTED FOR PRIVACY',  
    'state': 'REDACTED FOR PRIVACY',  
    'street': 'REDACTED FOR PRIVACY'}},  
  'creation_date': [datetime.datetime(2023, 9, 22, 20, 12, 24)],  
  'emails': ['sales@101domain.com'],  
  'expiration_date': [datetime.datetime(2033, 9, 22, 23, 59, 59)],  
  'id': ['D398649096-CNIC'],  
  'nameservers': ['ns1.101domain.com', 'ns2.101domain.com'],
```

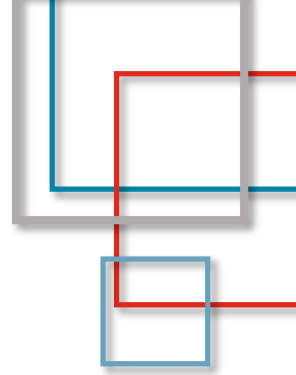
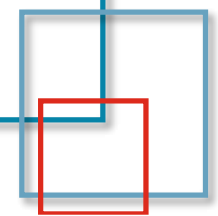


10年前のくせに
まだまだいいける？



結論

適材適所で



新しい闇を見つけたら
来年の
ライトニングトークへ

Whoisの沼へ ようこそ

Thank you