
hackcaptcha

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CHAPTER 1

Statements about the project

The project **is** only **for** learning python,
and I will delete this project **if** I find that anyone use this project to do some_
↪illegal things.

2.1 Environment

The environment I used is:

- OS: Win10
- GPU: 1050ti
- Python: 3.6.4

2.2 Dependency package

Dependencies requirement:

```
numpy >= 1.16.2  
requests >= 2.22.0  
opencv-python >= 4.1.2  
keras >= 2.2.4 and the corresponding tensorflow/tensorflow-gpu
```

2.3 Pip install

Just run the following command:

```
pip install hackcaptcha --upgrade
```

2.4 Source code install

2.4.1 Online

Just run the following command:

```
pip install git+https://github.com/CharlesPikachu/hackcaptcha.git@master
```

2.4.2 Offline

First, clone the project:

```
git clone https://github.com/CharlesPikachu/hackcaptcha.git
```

Then, run the following command:

```
cd hackcaptcha
```

Finally, run the following command to install:

```
python setup.py install
```


3.1 Click Captcha

Unsupported now.

3.2 Digital Captcha

3.2.1 Baidu API

Here is an example:

```
from hackcaptcha.crackers import WebapisCracker
cracker = WebapisCracker()
infos_return = cracker.digital(imagepath='CAPTCHA IMAGE PATH', webapi_type='baidu',
↪ app_id='AppID', api_key='API Key', secret_key='Secret Key')
```

the format of infos_return is:

```
{
    'is_success': True,
    'result': 'AFD2',
    'error_msg': ''
}
```

3.3 Slider Captcha

Unsupported now.

4.1 Click Captcha

4.1.1 zt12306

Here is an example:

```
from hackcaptcha.crackers import AlgorithmsCracker
cracker = AlgorithmsCracker()
infos_return = cracker.click(imagepath='CAPTCHA IMAGE PATH', algorithm_type='zt12306',
→ text_model_path='text.h5', object_model_path='object.h5')
```

the format of infos_return is:

```
{
    'is_success': True,
    'result': '1,2,5'
}
```

4.2 Digital Captcha

Unsupported now.

4.3 Slider Captcha

4.3.1 Canny

Here is an example:

```
from hackcaptcha.crackers import AlgorithmsCracker
cracker = AlgorithmsCracker()
infos_return = cracker.slider(imagepath='CAPTCHA IMAGE PATH', algorithm_type='canny')
```

the format of infos_return is:

```
{
    'is_success': True,
    'result': [cx, cy, w, h],
    'tip': 'the format of the result is (cx, cy, w, h)'
}
```

CHAPTER 5

About author

```
I'm a student interested in computer vision and information security  
My personal wechat public account is Charles_pikachu  
My github is https://github.com/CharlesPikachu  
My zhihu is https://www.zhihu.com/people/charles\_pikachu  
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```