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# **StrongsteamQuickStart Guide**

***Release 0.0.1***

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Welcome to the [Strongsteam](#) documentation !

[Strongsteam](#) is a cross-platform toolbox for developpers who want to “give a pair of eyes” to computers or mobile devices, to recognize images, words, semantic context, etc.

All results sent from Strongsteam are [JSON](#)-based. They thus can be interfaced with any programming language with [JSON](#) support:

- C
- C++
- C#
- D
- Java
- Javascript
- Matlab
- Objective-C
- Perl
- PHP
- Python
- R
- Ruby
- and many more...



# PREREQUISITES AND INSTALLATION

## 1.1 Requirements

- Python 2.6, 2.7 or 3.2
- requests 0.9.1
- progressbar 2.3

## 1.2 Install Strongsteam

Strongsteam is a cloud-based API, which means you do not need to install a whole bunch of packages or software. Everything you need is hosted on our server: you just have to send us the data and we'll take care of the rest.

All you have to do is install the `strongsteam` python library.

We strongly suggest to install `strongsteam` in a virtual environment, using `virtualenv`.

```
$ virtualenv path/to/yourproject/  
$ source yourproject/bin/activate
```

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**Note:** `virtualenv` is a tool allowing you to create isolated python environments. Read the [documentation](#) to learn more about it.

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You can install the `strongsteam` library in your virtual environment with `pip`, with the command

```
pip install http://dl.dropbox.com/u/6113789/Strongsteam-client/strongsteam-0.0.1.tar.gz
```

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**Important:** Do not install the modules using `sudo`: this will install them in your system python path and not in the virtual environment.

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**Note:** Some examples are installed along with the `strongsteam` package. They are located in `lib/pythonX.X/site-packages/strongsteam/examples/` if you installed `strongsteam` in a `virtualenv`. Otherwise, they are located in `/lib/local/lib/pythonX.X/dist-packages/strongsteam/examples`.

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# FIRST TEST

To validate that the installation went well and that our server is running, you can run the `demo_hello_world.py` test script.

You should see something like this in your shell :

```
$ python demo_hello_world.py
Processing job on uri /user/kyran/processes/hello_world...
{
    u'status': u'succeeded',
    u'time_stamps':
    {
        u'ts_job_ps_end': 1333542151.78501,
        u'ts_job_ws_receive': 1333542025.628467,
        u'ts_job_js_receive': 1333542151.619243,
        u'ts_job_ps_start': 1333542151.783706,
        u'ts_job_post': u'1333542150.91'
    },
    u'input_uri': None,
    u'process_name': u'hello_world',
    u'results':
    {
        u'hello_world_string': u'/user/kyran/vnd_ss_results/4f7c3d0711b3f4031f000000'
    },
    u'uri': u'/user/kyran/vnd_ss_results/4f7c3d0711b3f4031f000000',
    u'job_uri': u'/user/kyran/jobs/4f7c3c89fa1d115c3500004b',
    u'msg': u'Your job succeeded. Find the result-uris in results'
}
Job succeeded in 1.5700 seconds for /user/kyran/processes/hello_world
Hello world ian!
```

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**Note:** Running this script can take more time (~30s) in the case where our server is asleep. Once awoken, everything will be blazing fast!

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# SEND A JOB TO STRONGTEAM

You can send us a job with just a few lines of code!

To understand how to do that, we'll go through the `demo_hello_world.py` test script:

```
from strongteam.clients import ss_client as ssc
from strongteam.clients.ss_client import log

# set log to INFO if you want lots of progress information or
# use WARNING just to see the main client messages
log.setLevel(ssc.logging.WARNING)

if __name__ == "__main__":
    cli = ssc.StrongSteam()
    hello = cli.add_job(None, 'hello_world', data={'name': 'oh, mighty Strongteam user'})
    print hello.get_data()
```

## 3.1 Set-up a logger

You first need to import the `ss_client` class from the `strongteam.clients` submodule, the `log` class from `cc_client` and set up a console logger.

```
from strongteam.clients import ss_client as ssc
from strongteam.clients.ss_client import log

# set log to INFO if you want lots of progress information or
# use WARNING just to see the main client messages
log.setLevel(ssc.logging.WARNING)
```

You then need to setup a StrongSteam client:

```
cli = ssc.StrongSteam()
```

## 3.2 Send a job

Whenever you want to send us a job, just use the `ss_client.StrongSteam.add_job()` method:

```
hello = cli.add_job(None, 'hello_world', data={'name': 'oh, mighty Strongteam user'}) # Add job of type
```

**Note:** Do not invoke the `cli.add_job(*args)` without storing the result in memory. You use `hello` which is returned by `add_job` to query the status of the job and to extract results when the computation is finished.

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# THE JOBS WE SUPPORT

Strongsteam being in alpha release, more jobs will be gradually added, as we mature.

## 4.1 OCR (Optical Character Recognition)

If you want to extract text information from images, you can send us to Strongsteam using the following API call:

BlahBlah



# YOU'RE STUCK? GET HELP.

If you have any questions regarding [Strongsteam](#), do not hesitate to send us an email at [help@strongsteam.com](mailto:help@strongsteam.com).