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# **Incursion Documentation**

*Release 0.4.0*

**Alex Kessinger**

October 27, 2014



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IncurSION is an *MIT Licensed* InfluxDB client, written in Python, for developers.

The existing InfluxDB python client is great. This client is built on that but many python developers have come to expect a programmatic method for building queries on top of a raw unstructured query interface.

IncurSION was built to bring a new pattern to your InfluxDB Queries.



## Features

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- Query Builder Pattern
- Continuous Query Planner
- Lots of tests
- Safety first (all queries have a limit unless explicitly turned off)
- Ready for contributors (seriously, this should be a community project)



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## Installation

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```
pip install incursion
```

You may also use Git to clone the repository from Github and install it manually:

```
git clone https://github.com/voidfiles/incursion.git
python setup.py install
```



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**Quick Start**

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Incursion aims to be an easy-to-use Python client for InfluxDB.

```
import incursion as indb

q = indb.q('page_views')
q = q.columns(indb.count(indb.distinct('author_id')), 'author_id')
q = q.group_by(indb.time('1h'))
q = q.where(category__matches=indb.regex('/(10|11)/'))
from, to = (datetime(2014, 10, 20), datetime(2014, 10, 21))
q = q.where(time__gt=from, time__lt=to)
q = q.fill(0)
q = q.limit(None)

resp = indb.get_result(q)

assert resp['page_views'] # The response is a dict

print '%(14)s %(6)s %(2)s' % ('time', 'count', 'id')
for row in resp['page_views']:
    print '%(-14)s %(-6)s %(-2)s' % (row.time, row.count, row.author_id)

# time          count id
# 1413908730239 10    1
# 1413908730239 8     2
# ...
```

Contents:



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## Indices and tables

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