

# Twisted PostgreSQL

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May 20, 2010

# Who's interested

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- PostgreSQL

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- Python

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- Twisted



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- the `connection` object exposes the file descriptor
- the `poll()` method wraps asynchronous communication



# Psycopg2 example

## Going async

```
cur = conn.cursor()
cur.execute('select col from big')
while True:
    state = conn.poll()
    if state == POLL_OK:
        break
    elif state == POLL_READ:
        select.select([conn.fileno()], [], [])
    elif state == POLL_WRITE:
        select.select([], [conn.fileno()], [])
print cur.fetchall()
```



- event-driven network engine

# Twisted



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- has an asynchronous, single-threaded main loop
- used to do threads for database access
- no more threads using the new bindings (**sweet!**)

# Other nice things



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- coroutines

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- green threads
- coroutines
- seamless SQLAlchemy/Django integration



# Linkies

- <http://initd.org/psycopg2/> - home of the psycopg2 driver
- <http://twistedmatrix.com/> - home of Twisted
- <http://launchpad.net/txpostgres> - drop-in replacement for Twisted database API

# Folks

- Federico Di Gregorio
- Daniele Varrazzo
- yours truly

# Thanks!

