

Web temps-réel (ou quasi) avec Python

La cantine (Paris) - 2011-11-28

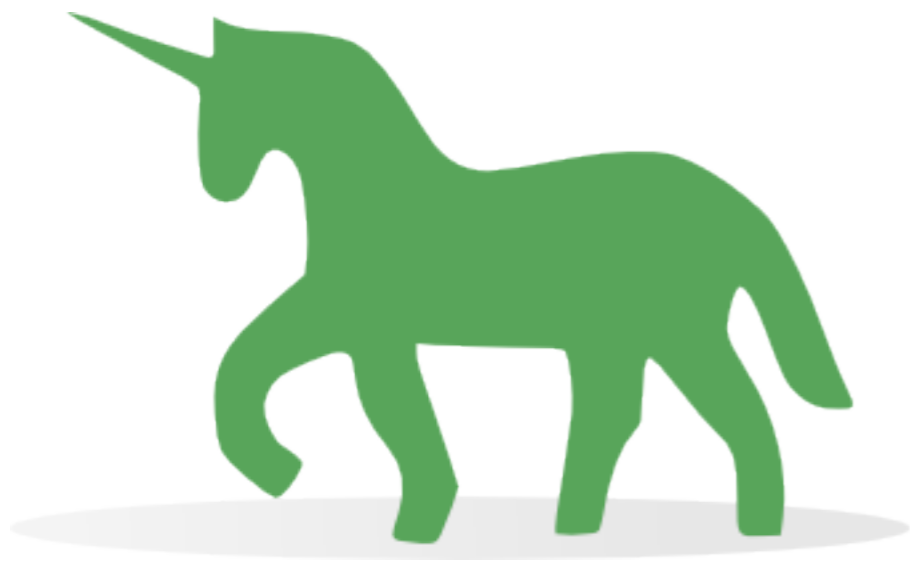
- Web craftsman
- Writing opensource for a living
- benoitc@apache.org
- @benoitc



Benoît Chesneau



Apache CouchDB
<http://couchdb.apache.org>



gunicorn

<http://gunicorn.org>

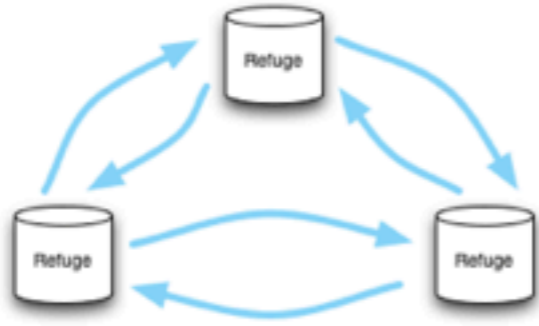
Apache CouchDB - Futon: V... x refuge.io - welcome x

refuge.io

Refuge project Home Download About Help Get involved Blog

About the Refuge project Description and more

What is Refuge?



```
graph TD; N1[Refuge] <--> N2[Refuge]; N1 <--> N3[Refuge]; N2 <--> N3;
```

The Refuge Project aims to provide a fully decentralized and opensource data platform.

We believe that more and more things will be connected in order to make our lives and our businesses more efficient and more enjoyable. But while some people are creating big data clusters, we want to build a platform that will allow you to connect them in a distributed and decentralized manner. Data should be yours.




You will be able to:

- Collect data, analyze, use and share them easily in a distributed and decentralized manner
- Collect [data from sensors](#)
- Create a decentralized and social [web of things](#)
- Build a censorship resistant data platform
- ...

When is this coming?

A demo will be available at the end of october 2011.

Tech Specs

- [Apache CouchDB 1.3](#) based
- Spatial search (fork of geocouch)
- Nodes discovery: DNSSD, UPNP, HTTP Discovery
- HTTP Api
- Fully opensource. All the sources are on [refuge GIT repository](#) under [Apache License 2](#).
- Support for:    (Android & IOS planned)

Follow @refugeio · 39 followers

<http://refuge.io>

Web temps-réel (ou quasi) avec Python



- Il ne s'agit pas de de recevoir des news plus rapidement

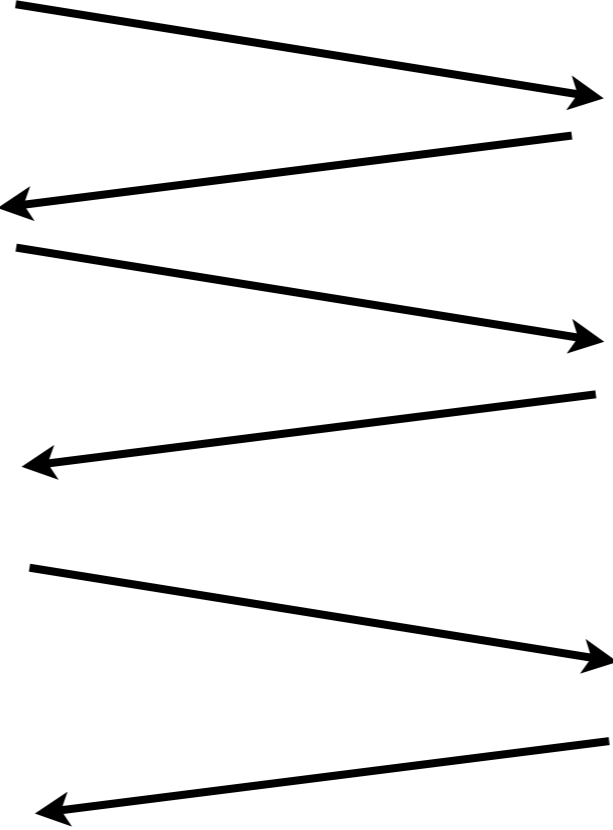
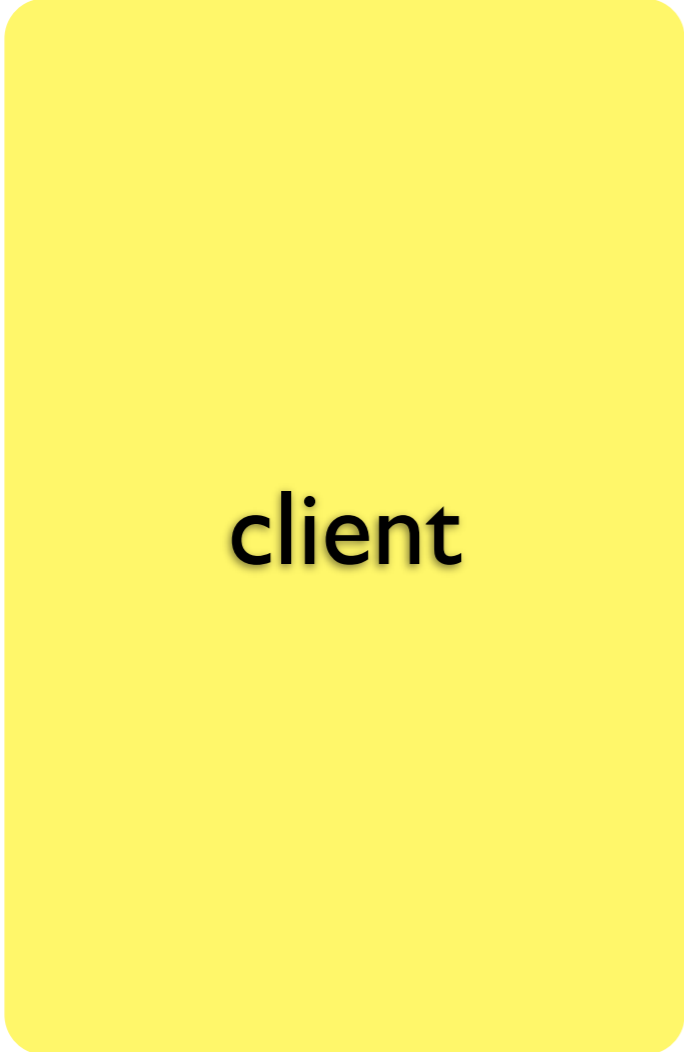


Pousser les données

client



server



- comet
- long-polling
- connexion continue
- websockets
- event source

(1) #erlang | Freenode | IRCC x

https://irccloud.com/#!/irc.freenode.net:6667/%23erlang

IRCCloud beta james@irccloud.com | Settings | Logout

#erlang Erlang, the programming language

2 mentions and 10 minutes of chatter

Members 253

Eviosus Ah, right, you pass a child spec to assimilate? 7:42 PM

RJ2 it's assimilate_child(SupRef, ExistingPid, Args) 7:42 PM

← pantsman 7:43 PM

(~pantsman@pdpc/supporter/active/pantsman) quit: Read error: Connection reset by peer

RJ2 except it doesnt really use Args, since it's already started 7:43 PM

RJ2 and you need a fun in the existing proc's module called set_ancestors which manipulates the process dictionary 7:43 PM

→ pantsman joined ← jwheare local left 7:43 PM

RJ2 the assimilate code calls that to update ancestor references 7:43 PM

→ RumataEstor (~rumata@193.19.83.102) joined 7:43 PM

RJ2 and links to the new child 7:43 PM

RJ2 after that, everything seems ok, and supervisor:which_children shows the new proc 7:43 PM

→ Edward and te_ joined ← RumataEstor and grz quit 7:44 PM

james_cloud

#feedback

Archives

Freenode

##javascript

#erlang 2

#html5

#websockets

RJ2 2

Archives

IRCNet

#chat

Add a network



No!

www.meebo.com

meebo

accounts preferences help

Welcome to Meebo!

Available Sign off

What are you doing?

- bchesneau
- bchesneau@gmail.com
- benoitc@e-engura.org
- enki@crocobox.org

+ Sign on to more accounts...

capnemo (enki@crocobox.org)

Friday, 2010 October 22 (21:53:39)

[22:42] enki@crocobox.org: ce qui est marrant c que j'ai de moins en moins de data sur mes ordi
 [22:44] enki@crocobox.org: btw dispos un peu ce we pour commencer à coder refuge ?
 [22:58] capnemo: putain de bordel de dieu de ptits saloupiards!
 [22:59] capnemo: les enfants des voisins etaient en train de faire un feu sur notre propriete au milieu des arbres!
 [22:59] capnemo: super con!
 [23:11] enki@crocobox.org: <http://english.aljazeera.net/news/middleeast/2010/10/20101022202210771944.html>
 [23:11] enki@crocobox.org: erf
 [23:16] enki@crocobox.org: je crois qu'on a plus de presse française
 [23:16] enki@crocobox.org: 400000 docs

capnemo is away

Buddy List

Search your buddy list...

- Buddies (6/37)
 - capnemo
 - capnemo@crocobox.org
 - Kael
 - MSN Transport
 - slubman
 - zebuline@crocobox.org - (Absent(e) c
- Facebook (0/2)
- Family (0/2)
- General (1/3)
 - ff@chat.friendfeed.com
- Offline

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Hacker News - Convore

https://convore.com/hacker-news/

convore MARK ALL READ 300+ GROUPS DISCOVER MESSAGES MENTIONS search benoitc

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Created by: fakhrealam123 Last message: 3 days ago

Show HN: Provord - Create rich digital histories for the objects we own replies unreads tracked 3 2 11
Created by: timjoslyn Last message: 14 days ago

intros.me: make the web your personal web replies unreads tracked 9 5 11
Created by: themadray Last message: 14 days ago

Ask HN: What do you use to track your keyword ranking on Google? replies tracked 0 11
Created by: webguy Last message: 17 days ago

Hacker's Guide to Cashflow vs Profit replies unreads tracked 7 3 11
Created by: marcgayle Last message: 18 days ago

Where is DHH's Startup School video? (Omniosi Version) replies tracked 0 11
Created by: OoTheNigerian Last message: 21 days ago

FYI first glitch developer meetup is tonight in SF replies unreads tracked 6 3 11
Created by: verbal Last message: about a month ago

www.Criticrania.com We just completely revamped our startup site, what do you think? replies unreads tracked 2 3 11
Created by: mbetten10 Last message: about a month ago

AskHN: Anyone have a lifepath.me invite? replies unreads tracked 23 17 11
Created by: Swizec Last message: about a month ago

Test replies unreads tracked 1 1 11
Created by: romefort Last message: about a month ago

Friendpaste - Welcome

friendpaste.com

Friendpaste


Paste stuff to your friends.

New paste Services About

Programming Language preferred languages

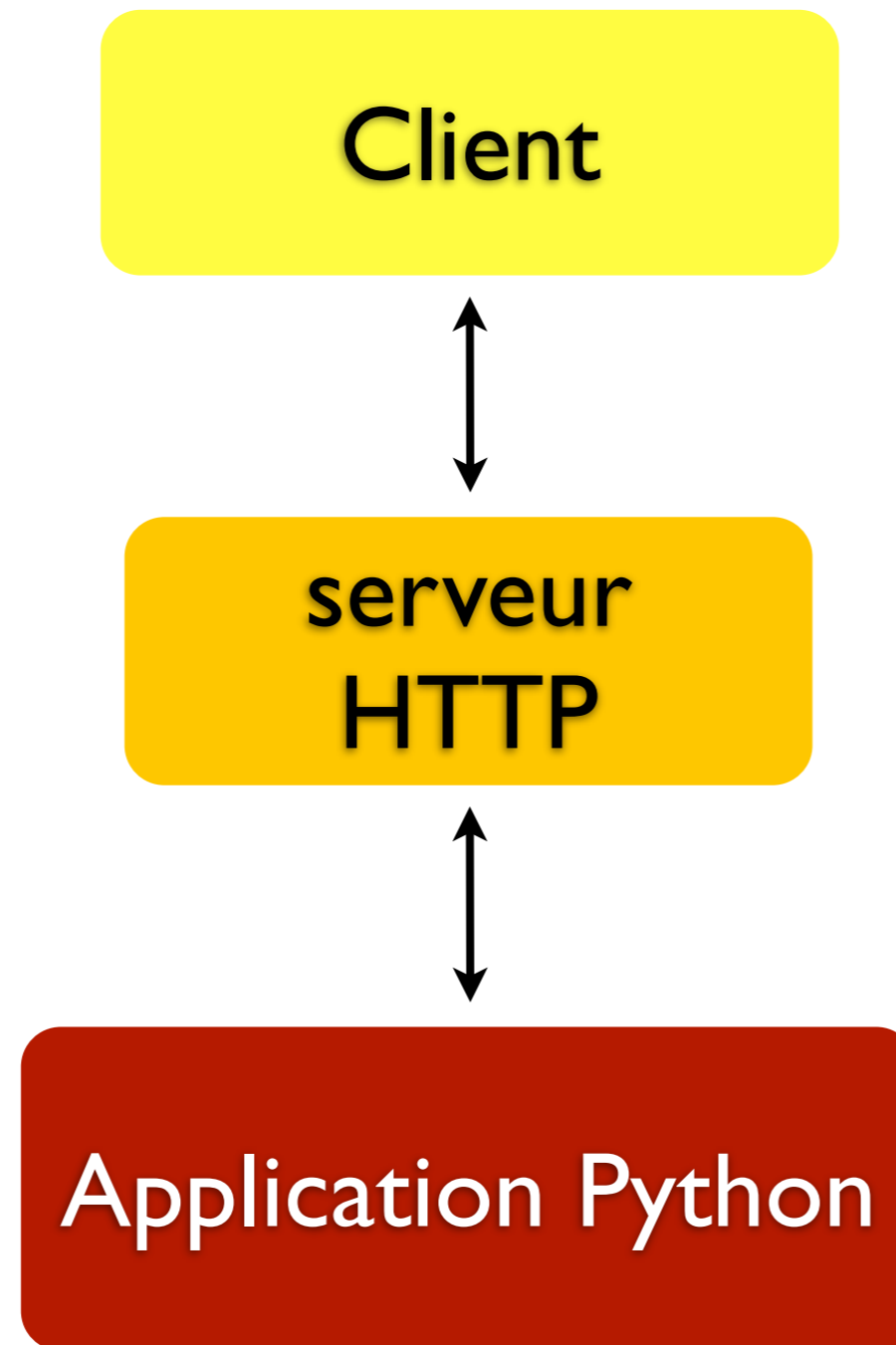
Title

Removal/Lock code

 Removal/Lock code is a password to let you **remove** or **lock edit** of paste you upload.

[Privacy settings](#)

2007-2009 © - Enki Multimedia - Some rights reserved [News](#) proudly powered by Apache CouchDB



- pas incompatible avec WSGI
- peut aussi fonctionner dans votre framework (django, flask, pyramid, ...)
- Streamer & Itérer

- **Paralléliser**
- **Librairies Asynchrones**
- **Frameworks**

stdlib

- *twisted*
- Gevent & Eventlet
- Tornado
- Gunicorn

bibliothèques asynchrones

```
<script src="/socket.io/socket.io.js"></script>
<script>
  var socket = io.connect( 'http://localhost' );
  socket.on('news', function(data) {
    console.log(data);
    socket.emit('my other event', {
      my: 'data'
    });
  });
</script>
```

Gevent & socket.io

```
def hello_world(environ, start_response):
    if not environ['PATH_INFO'].startswith('/
socket.io'):
        return serve_file(environ, start_response)
    socketio = environ[ 'socketio' ]
    while True:
        socketio.send('Hello, world')
        gevent .sleep(2)
```

Gevent & socket.io

```
var ws = new WebSocket("ws://friendfeed.com/websocket");
ws.onopen = function() {
    ws.send("This is a message from the browser to the server");
};
ws.onmessage = function(event) {
    alert("The server sent a message: " + event.data);
};
```

Tornado + Websockets


```
class EchoWebSocket(tornado.websocket.WebSocketHandler):
    def open(self):
        self.receive_message(self.on_message)

    def on_message(self, message):
        self.write_message(u"You said: " + message)
```

Tornado + Websockets



EVE
ONLINE
TYRANNIS

- `stackless`
- `greenlets`
- `py.py --withmod-_stackless`

<http://www.grant-olson.net/python/intro-to-stackless-python>

stackless

- hookbox : <http://hookbox.org>
- moksha <https://fedorahosted.org/moksha/>

autres frameworks

- gère les websockets
- gevent & eventlet
- 'gunicorn.socket'

The logo for Gunicorn, featuring the word "gunicorn" in white lowercase letters on a green rectangular background.

gunicorn

merci!

questions?

@benoitc