

Mashup with Python

COSCU 2006 · 周宗君



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— [周宗君 <http://blog.tcchou.org>

Partner **Programmer** Member *volunteer*

Project Product *Open Source* **Children**

Java *Eclipse* SpringFramework ServiceMix **Python** *Twisted* Zope Plone

Architecture **Hacking** Engineering **Web** CJK

Different **Map**

大綱

—— [原則

—— [Web 2.0 贏家  混搭理由

—— [技術：標準、領域、工具

原則

使用方便
散播快速

[Web 2.0 is made by People] - Ross Mayfield

使用方便

— [免(安裝 | 更新)

— AJAX

— Flash

— [程式介面 API

— Web(JavaScript), GUI

— Web Services, REST

散播快速

— [畫面元件 Widget

— (Flickr | ODEO | YouTube) badges, Yahoo, Google gadget

— UrMap, HEMiDEMi

— [串聯 Syndication, 機制 Mechanism

— RSS, Atom

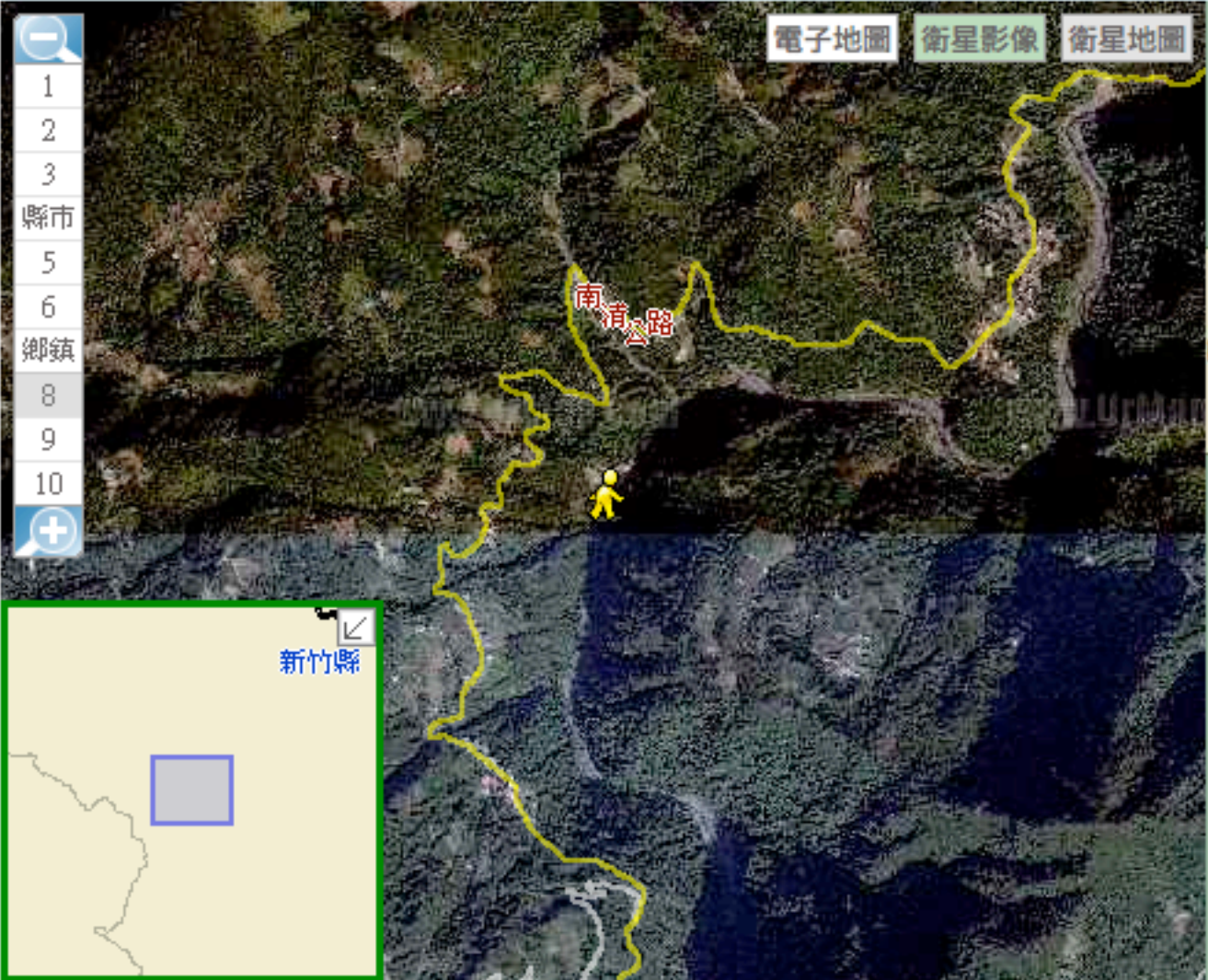
— 微格 Microformats

Web 2.0 贏家

[Web 2.0 Winners and Losers] - Michael Calore 2006/09/20



免(安裝 | 升級)



地標 搜尋結果 精彩內容 導航

*目前僅開放第 8~10 層可開啟地標

關閉地標

【專區】104人力銀行 Kijiji 台灣

- 依資料來源分類
 - 中時汽車網
 - 台中無線上網AP點
 - 台灣摩鐵
 - 英坦士360度景點實景
 - TaipeiWalker
 - 樂眾網 NEW
 - 北區房屋(專營桃竹苗地區)
 - 1111人力銀行工作機會
 - 英卓美食網
 - 全球素食網
 - 民宿王
 - 網路消費協會
 - 基礎地標
- 依功能分類
 - 美食/餐廳
 - 旅遊/住宿
 - 國道/快速道路即時影像

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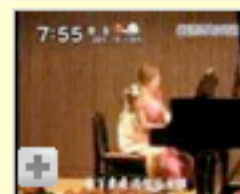
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General (28) 新聞頁

TC Techcrunch (7)

- Jibblab's "Great Sketch Experiment"
- Technorati Announces Support for Open ID
- MyBlogLog: Readers Network Around Their Favorite Blogs
- Google Quantifies Its Momentum
- Koepegator: a Next Generation Web Games Marketplace
- Campus Reader Aggregates College News
- Register Now for TechCrunch New York

bb Being Boing (7)

- Online world based on Shakespeare
- Chemo-luminescent hair gel
- Source code for MySpace postophile-hunter bot
- Star Wars mashup photoshopping contest
- Scrabble-tile benches
- Antique devil inkwell
- Pink flamingos, RIP?

Kelkoo : pap

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 - 於 alpage.com
- 199,99 € 看看報價
 - Console Sony PSP Base Pack
 - 於 Fnac.com
- 249,99 € 看看報價
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 - 於 Les 3 Sutures - high tech

網絡搜尋 - web 2.0

web 2.0

Search

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Snap

- O'Reilly -- What Is Web 2.0
- Web 2.0 Conference - November 7-9, 2006 - San Francisco, CA
- Web 2.0 - Wikipedia, the free encyclopedia
- Web 2.0
- Digital Web Magazine - Web 2.0 for Designers
- Web 2.0 Workgroup - A network of Web 2.0 resources
- Techcrunch

next →

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- Growing up during a war
- Web 2.0 as a metaphor for 'yip-off'
- Arson Spate Worries

Netvibes.com News (7)

- Learn how to use Netvibes, step by step
- Cinnamon: A New Netvibes, A Better Netvibes [update]
- Snoak Peak of Cinnamon: the Netvibes 2.0
- Netvibes seeks top Ajax coder
- The Future of Netvibes
- Maintenance upgrade and a cure of speed for Netvibes
- iCal module update

快捷清單

go home

新增待辦事項

Webnote

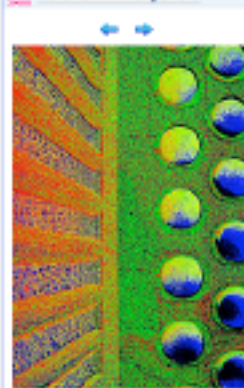
Welcome to Netvibes!

This is your personalized page, you can now modify everything: move modules, add new RSS/ATOM feeds, change the parameters for each module, etc. Your modifications are saved in real-time and you'll find your page when you get back on Netvibes.com. If you want to be able to access your page from any computer, you can sign in (at the top right) with your email and a password.

The content is available from the "add content" button at the top left of this page.

Feel free to check the Netvibes blog to stay tuned about new features on the site.

colorful - Everyone's



the title of this series refers to "Accordion Crimes" by E. Annie Proulx: the real crime committed on my part being having these instruments without playing them...

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 - toread
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 - ipod
 - macbookpro

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toblog					
tobuy					
towatch					

Title	Created	
Amazon.com: ViewSonic VA1912WB 19" Widescreen LCD Monitor (Black): Computers	6/21/06	<input type="checkbox"/>
Amazon.com: Mac OS X Internals : A Systems Approach: Books: Amit Singh	5/10/06	<input type="checkbox"/>
Amazon.com: Off The Wall Marketing Ideas: Jumpstart Your Sales without Bustin...	5/4/06	<input type="checkbox"/>
Amazon.com: Sony DCR-HC32 MiniDV Handycam Camcorder w/20x Optical Zoo...	5/4/06	<input type="checkbox"/>
Amazon.com: Mastering FreeBSD and OpenBSD Security: Books: Yanek Korff,Paco...	3/17/06	<input type="checkbox"/>
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Amazon.com: Canopus 77010150100 ADVC110 Converter: Electronics	1/14/06	<input type="checkbox"/>

Buy this so I can convert my home movies from analog to digital. Then I can edit them with iMovie.

tobuy

<http://www.amazon.com/gp/product/B00030ATTO/sr=1-1/qid=1137217>

del.icio.us  

畫面元件

« Top 10 für Internet Profis

Order makes the web go round - LATCH »

The huge cloud lens bubble map web2.0

Sleepless Night: So here it is - the big Web2.0 everything., made for Aperto:

[Click to see the full size.](#)



If I forgot anything, put it in the wrong place, mentioned anything outside your mindmap or if you want me to add your funky startup ... put it in the comments, but do not expect me to edit the monster.

Maybe I will add the big linklist another day.

Readers who are tagging this have also tagged O'Reilly's What is Web2.0, 37 signals' negative top 10, and Dion Hinchcliffe's diagrams.

[later next day]

See it on flickr.

Digg it here.

On del.icio.us.

On StumbleUpon.

[update]

someone added it to wikipedia (no, it wasn't me)

[update2.0]

Check out [NerdWideWeb.com](#) for localised versions of the mindcloud.

In case you are interested in t-shirts, buttons, stickers and mousepads surf over to the [official nerdchandise of the web2.0 mindcloud.](#)

Tag on me:

Kommentare schreiben · TrackBackURL · Permalink

Kommentare als Feed (RSS 2.0)

Fr, 11. November 05 - 05:22:40

Kategorien: [Alle], [en], WebDev, Online

Web kosmar.de

Autor
Markus Amann



Kosmar über

- Design (23)
- Music (29)
- Online (57)
- WebDev (10)
- [Alle] (312)
- [de] (68)
- [en] (27)

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- Juni 2006
- Mai 2006
- April 2006
- März 2006
- Februar 2006
- Januar 2006
- Dezember 2005
- November 2005
- Oktober 2005
- September 2005
- August 2005
- Juli 2005
- Juni 2005



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YOUR NAME

tcc

YOUR EMAIL

dukian@gmail.com

A SUBJECT?

RECORD YOUR MESSAGE

SOME EXTRA TEXT?

00:00

PRESS RECORD TO BEGIN

▶ Play ● Record

SEND

RECORD YOUR MESSAGE

00:00

PRESS RECORD TO BEGIN

▶ Play ● Record



串聯/機制

zope3 nobody@flickr.com (tcchou) 三月 10, 11:50 上午

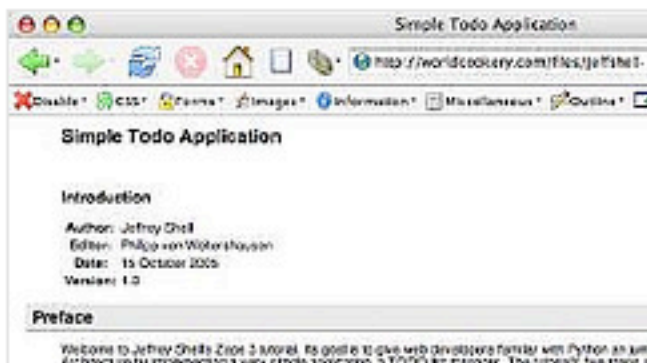
tcchou posted a photo:



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來源 :

tcchou's Photos

動作 :

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我的地圖首頁 | 說明 | 申請 | 最新 | 熱門

簡介 地點 標籤 留言

Luke's 地點 (33) | 地點收藏

重覆標 2008/09/17

地址:
經度: 121.506214548801
緯度: 25.0836265715564

台北捷運公司招考人員
招考工程師、技師、管理員及司機員
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www.fng-wan.com

Ads by Goooooogle

```

<!-- geo -->
<td align="center" valign="top">
<!-- @_uain -->
<div id="r_uain">
<table width="90%" border="0">
<tr>
<td align="left" class="note2 eng">Luke的 <span class="idcl"><a href="/place/list/luke@wang/">地點</a> </span></td>
<td align="right" class="thead2 eng"></td>
</tr>
<tr>
<td align="left" class="idcl">重覆標 </td>
<td align="right" class="noted gray1">2008/09/17</td>
</tr>
<tr align="left">
<td colspan="2" class="idcl">
<span class="geo">
地址: <tr />
經度: <span class="longitude">121.506214548801</span> <tr />
緯度: <span class="latitude">25.0836265715564</span>
</td>
</tr>
<tr>
<td align="center">
<td colspan="2">
<!-- @_o -->
<div align="center" class="noprnt">
<style type="text/css">
.note1 { font-size: 12px; line-height: 150%; }
.note2 { font-size: 12px; line-height: 160%; font-weight: bold; }
.eng { font-family: Arial, sans-serif; }
.bg-color2 { background-color: #FF9126; }
.whitel { color: #fff; }
</style>
</td>
</tr>
</table>
</div>

```

```

"http://mymap.yam.com/place/point/luke@wang/3088/"的原始碼
<!-- geo -->
<td align="center" valign="top">
<!-- @_uain -->
<div id="r_uain">
<table width="90%" border="0">
<tr>
<td align="left" class="note2 eng">Luke的 <span class="idcl"><a href="/place/list/luke@wang/">地點</a> </span></td>
<td align="right" class="thead2 eng"></td>
</tr>
<tr>
<td align="left" class="idcl">重覆標 </td>
<td align="right" class="noted gray1">2008/09/17</td>
</tr>
<tr align="left">
<td colspan="2" class="idcl">
<span class="geo">
地址: <tr />
經度: <span class="longitude">121.506214548801</span> <tr />
緯度: <span class="latitude">25.0836265715564</span>
</td>
</tr>
<tr>
<td align="center">
<td colspan="2">
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.bg-color2 { background-color: #FF9126; }
.whitel { color: #fff; }
</style>
</td>
</tr>
</table>
</div>

```

```

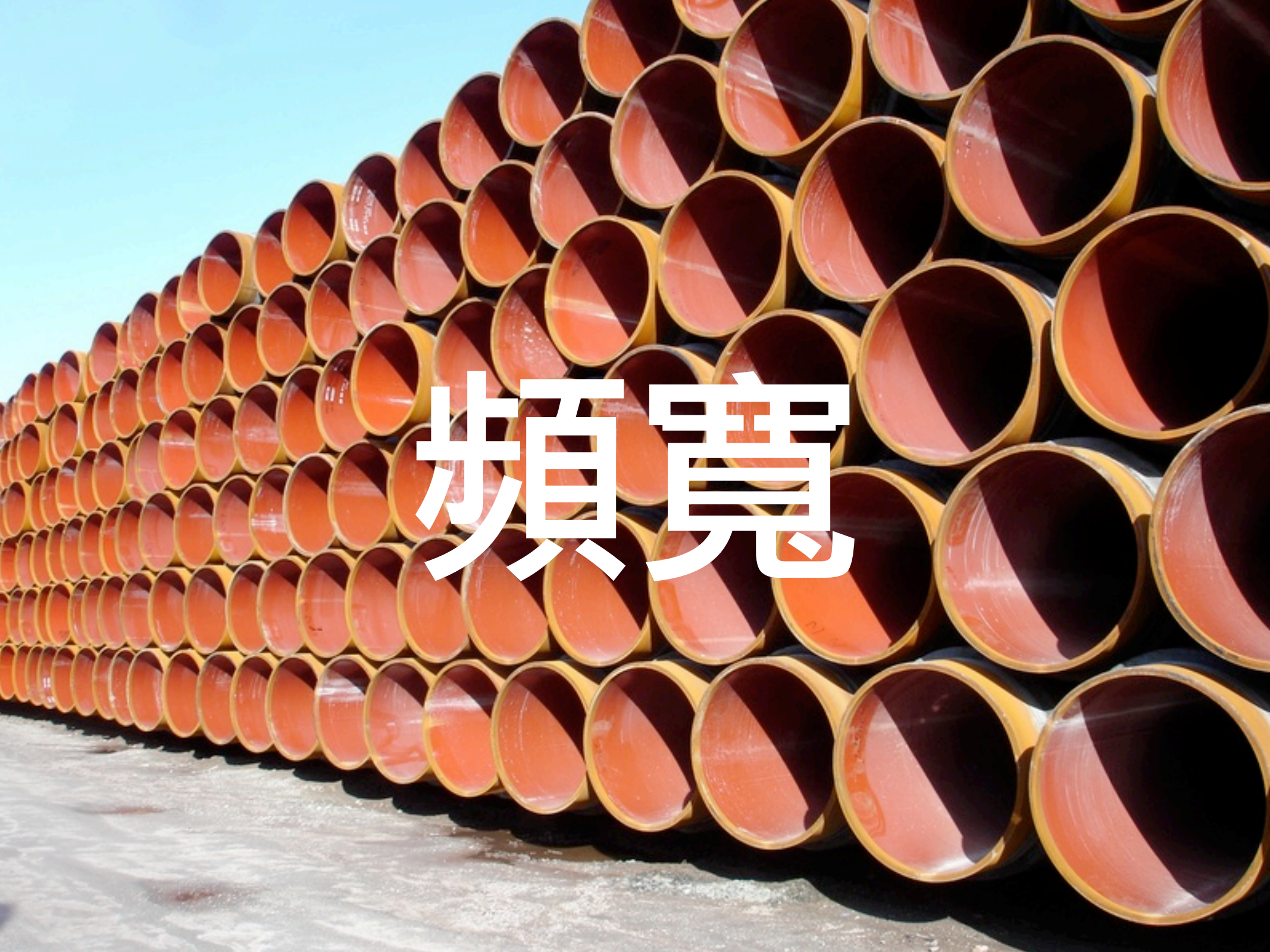
<span class="geo">
  <span class="latitude">37.386013</span>
  <span class="longititude">-122.082932</span>
</span>

```

混搭理由

儲存





頻寬

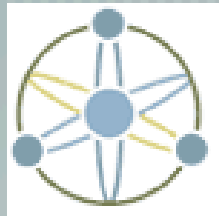


技術

技術

[標準領域工具]

標準



RSS, Atom

Universal Feed Parser

```
>>> import feedparser as FP
>>> d = FP.parse("http://blog.tcchou.org/rdf")
>>> d.feed.title
u"TCC's Blog"
>>> d.feed.link
u'http://blog.tcchou.org'
>>> len(d['entries'])
10
>>> print '|'.join([i.title for i in d['entries']])
嘗試 Servicemix|快樂書籤|快樂設計師聚會|OSDC 2006|Python
使用訊息處理服務|用 SOAP 像 REST 一樣|一個都不能少|從
CMFBoard 2.1.4 到 2.2.2|wxPython 在 OS X|翻譯
```



Microformats

Python Microformat Parser

```
>>> import microformatparser as MP
>>> from StringIO import StringIO
>>> data = '''
<div class="vcard">
  <span class="geo">
    <span class="latitude">37.386013</span>
    <span class="longitude">-122.082932</span>
  </span>
</div>'''
>>> t = MP.parse(StringIO(data))
>>> t
[[('vcard', [( 'geo', [( 'latitude',
'37.386013' )
, ( 'longitude', '-122.082932' ) ] ) ] ) ] ] ]
```


生成

Clearsilver, ZPT/TAL, Kid, Django, Genshi, ...



XML

PyXML, ElementTree, xmltramp

```
>>> import elementtree.ElementTree as ET
>>> from StringIO import StringIO
>>> data = '''
<div class="vcard">
  <span class="geo">
    <span class="latitude">37.386013</span>
    <span class="longitude">-122.082932</span>
  </span>
</div>'''
>>> t = ET.parse(StringIO(data))
>>> ea = t.getiterator()
>>> ea[2].text
37.386013
>>> ea[3].text
-122.082932
```

```
>>> import xmltramp as XT
>>> data = '''
<div class="vcard">
  <span class="geo">
    <span class="latitude">37.386013</span>
    <span class="longitude">-122.082932</span>
  </span>
</div>'''
>>> t = XT.parse(data)
>>> str(t.span[0])
37.386013
>>> str(t.span[1])
-122.082932
```

Screen Scraping



Beautiful Soup

```
>>> from BeautifulSoup import BeautifulSoup as BS
>>> data = '''
<div class="vcard">
  <span class="geo">
    <span class="latitude">37.386013</span>
    <span class="longitude">-122.082932</span>
  </span>
</div>'''
>>> s = BS(data)
>>> s.div.span.span.string
u'37.386013'
>>> s.div.span.span.nextSibling.nextSibling.string
u'-122.082932'
>>> s.find('span', attrs={'class': 'longitude'}).string
u'-122.082932'
>>> s.find('span', attrs={'class': 'latitude'}).string
u'37.386013'
```



XML-RPC

xmlrpcclib

```
>>> from xmlrpclib import Server
>>> server = Server('http://time.xmlrpc.com/RPC2')
>>> print server.currentTime.getCurrentTime()
20061020T08:40:40
```

```
<?xml version='1.0'?>
<methodCall>
  <methodName>currentTime.getCurrentTime</methodName>
  <params>
  </params>
</methodCall>
```

```
<?xml version='1.0'?>
<methodResponse>
<params>
  <param>
    <value><dateTime.iso8601>20061020T08:40:40</dateTime.iso8601></value>
  </param>
</params>
</methodResponse>
```


REST

Representation State Transfer

(URL, HTTP, XML)

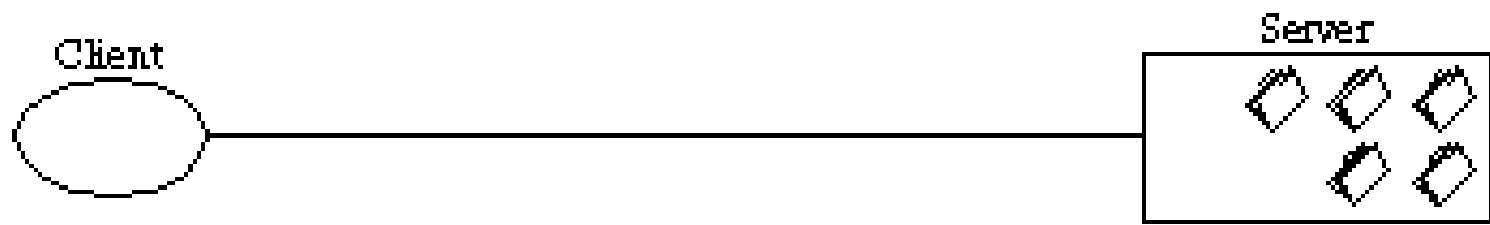


Figure 5-2. Client-Server

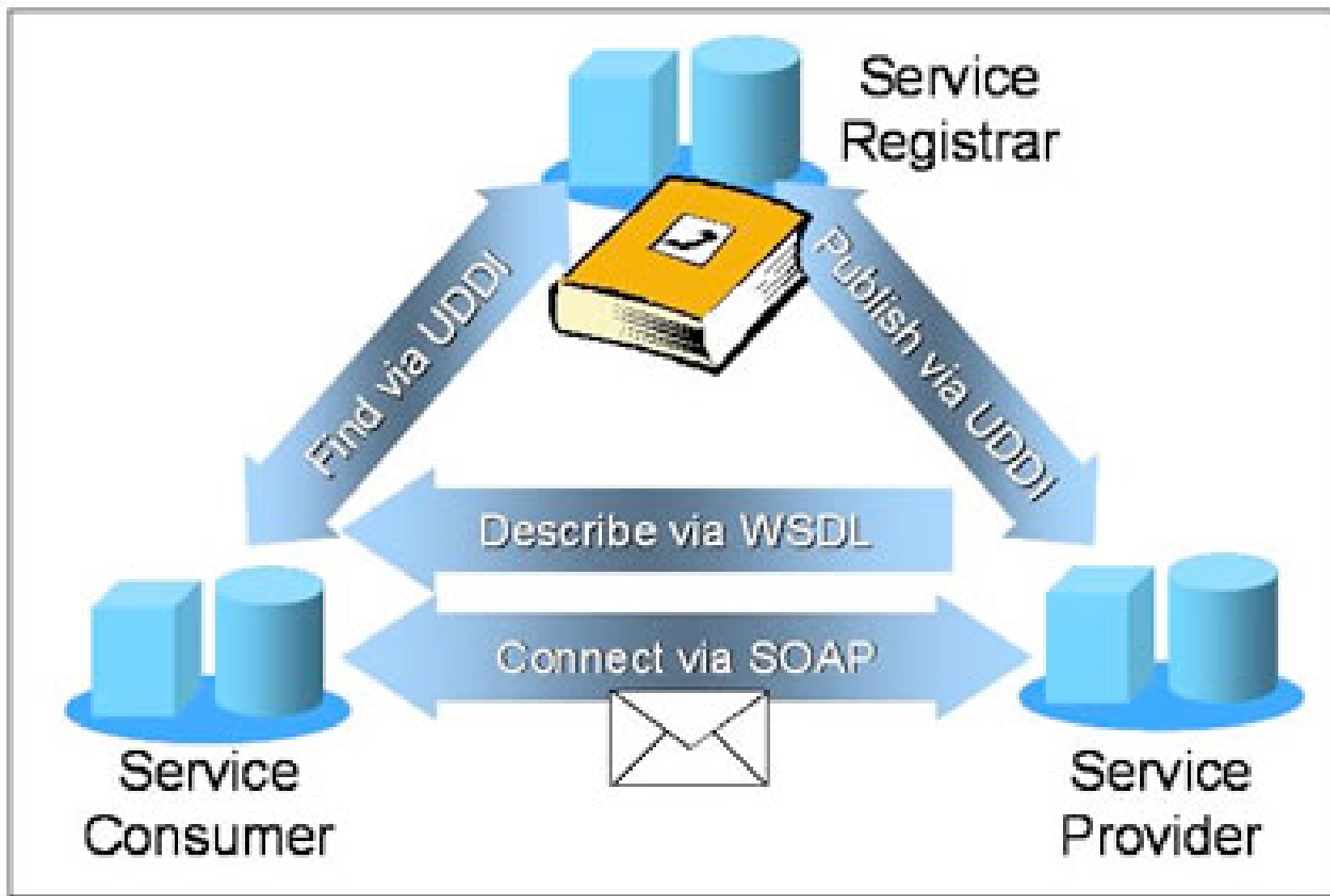
```
>>> import urllib
>>> f = urllib.urlopen('https://api.del.icio.us/v1/tags/get')
Enter username for del.icio.us API at api.del.icio.us: tcc
Enter password for tcc in del.icio.us API at api.del.icio.us:
>>> data = f.read()
>>> import xmltramp as XT
>>> t = XT.parse(data)
>>> tags = {}
>>> for i in t: tags[i('tag').encode('utf8')] = int(i('count'))
>>> tags
{'apple': 2, 'chinese': 1, 'map': 1, 'xml': 4, 'cocoa': 3,
'Collections': 1, 'plone': 3, 'Development': 2, 'OSX': 1, 'Draw':
1, 'java': 12, 'Information_Processing': 1, 'patterns': 2,
'aggregator': 5, 'writer': 1, 'Howto': 1, 'zope': 3, 'Article':
3, 'net': 2, 'ocr': 3, 'SOA': 1, 'life': 1, 'Free_Book': 1,
'web': 2, 'python': 6, 'db': 1, 'system:unfiled': 1,
'Programming': 1, 'Patterns': 1, 'game': 3, 'Google': 1,
'windows': 1, 'mail': 4, 'Messaging': 1, 'Software': 1,
'Open_Source': 1, 'pylib': 3, 'mytest': 1, 'doc': 7, 'flow': 1,
'dev': 10, 'Cluster': 1, 'slide': 1, 'tech': 4, 'webservices': 1,
'res': 3, 'feeds': 1, 'software': 3}
```

Traditional

Web Services

Python Web Services




















(SOAP, WSDL)



愈來愈少

Online Services

More 

- | | |
|--|--|
|  Flickr |  Webshots |
|  Fotki |  Smugmug |
|  Zoto |  ImageStation |
|  Buzznet |  Kodak Gallery |
|  FotoTime |  Photobucket |
|  23 |  BubbleShare |
|  Shutterfly |  Club Photo |
|  Vimeo |  Textamerica |
-
- | | |
|---|---|
|  FTP |  Export to folder |
|  MediaSock | |

領域

資料儲存

SQLite, SQLAlchemy

```
>>> from sqlalchemy import *
>>> metadata = BoundMetaData('sqlite:///tutorial.db', echo=True)
>>> users_table = Table('users', metadata,
    Column('user_id', Integer, primary_key=True),
    Column('user_name', String(40)),
    Column('password', String(10)))
>>> users_table.create()
CREATE TABLE users (
    user_id INTEGER NOT NULL,
    user_name VARCHAR(40),
    password VARCHAR(10),
    PRIMARY KEY (user_id)
)
```

```
>>> i = users_table.insert()
>>> print i
INSERT INTO users (user_id, user_name, password) VALUES (?, ?, ?)
>>> i.execute(user_name='Mary', password='secure')
INSERT INTO users (user_name, password) VALUES (?, ?)
['Mary', 'secure']
COMMIT
>>> i.execute({'user_name': 'Tom'}, {'user_name': 'Fred'})
INSERT INTO users (user_name) VALUES (?)
[['Tom'], ['Fred']]
COMMIT
```

```
>>> r = users_table.select().execute()  
SELECT users.user_id, users.user_name, users.password  
FROM users  
>>> r.fetchone()  
(1, u'Mary', u'secure')  
>>> r.fetchall()  
[(2, u'Tom', None), (3, u'Fred', None)]
```

```
>>> r = users_table.select(users_table.c.user_name=='Tom').execute()  
SELECT users.user_id, users.user_name, users.password  
FROM users  
WHERE users.user_name = ?  
['Tom']  
>>> r.fetchone()  
(2, u'Tom', None)
```



圖檔

PIL - Python Imaging Library

```
>>> import Image
>>> import urllib, cStringIO
>>> iurl = urllib.urlopen('http://www.python.org/
community/logos/python-logo-master-v3-TM.png')
>>> inb = cStringIO.StringIO(iurl.read())
>>> wim = Image.open(inb)
>>> sim = wim.resize((120, 40)) # 1/5
>>> outb = cStringIO.StringIO()
>>> sim.save(outb, format="jpeg")
>>> outb.seek(0)
>>> outd = outb.getvalue()
...
>>> del inb, outb, outd, wim, sim
```

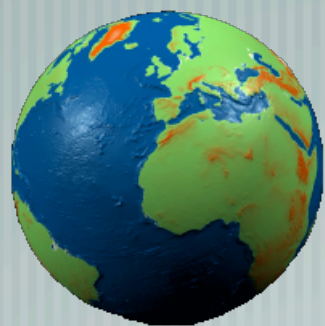
InData

InBuffer

PIL

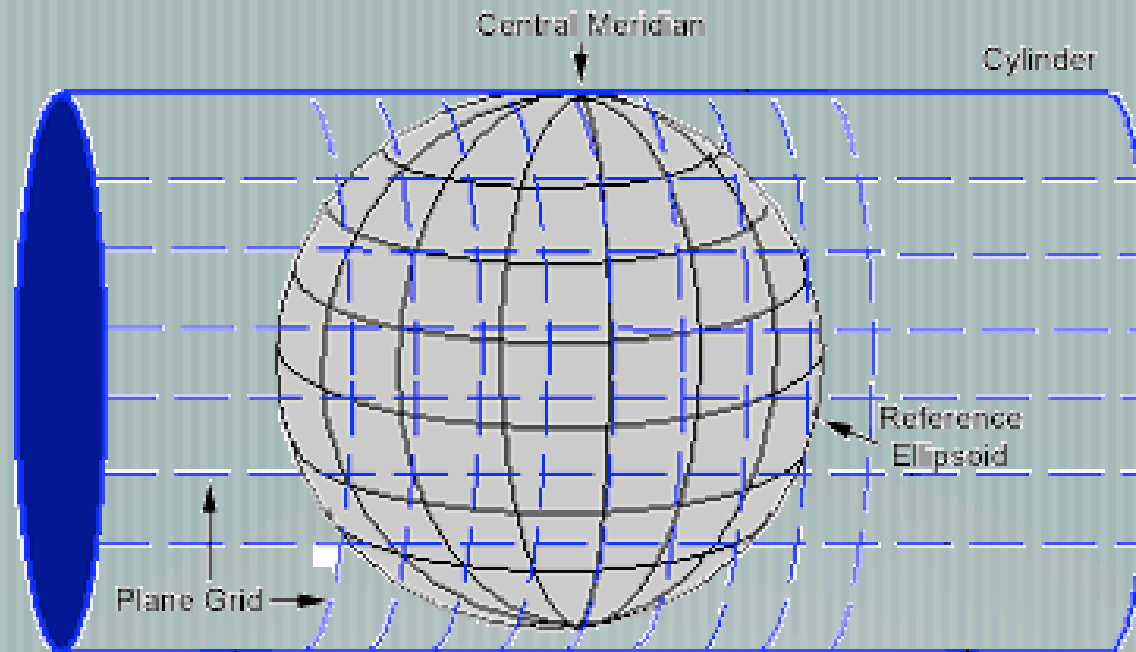
OutBuffer

OutData



地理

pyproj (PROJ.4)



ref. <http://www.osi.ie/>

大地基準	經緯度	二度分帶坐標
TWD67	120° 58' 26" 23° 58' 32"	247342 2652336
TWD97 (WGS84)	120° 58' 55" 23° 58' 26"	248172 2652130

ref. http://www.sunriver.com.tw/grid_tm2.htm


```
>>> from pyproj import Proj
>>> proj67 = Proj(proj='tmerc', ellps='aust_SA',
lon_0=121, x_0=250000, k=0.9999)
>>> proj97 = Proj(proj='tmerc', ellps='GRS80',
lon_0=121, x_0=250000, k=0.9999)
>>> p67=proj67(120.973880000299,23.9756513441222)
>>> p67
(247342.00000003437, 2652336.0000206619)
>>> conv67to97 = lambda p: (p[0] + 807.8 +
0.00001549 * p[0] + 0.000006521 * p[1], p[1] - 248.6
+ 0.00001549 * p[1] + 0.000006512 * p[0])
>>> c67 = conv67to97(p67)
>>> c67
(248170.92721067049, 2652130.095396406)
>>> proj97(c67[0], c67[1], inverse=True)
(120.98202599713463, 23.973876066030837)
```

工具

特製套件

— [程式庫

— FlickrClient/flickr.py, pydelicious, pygoogle, ...

— [命令列

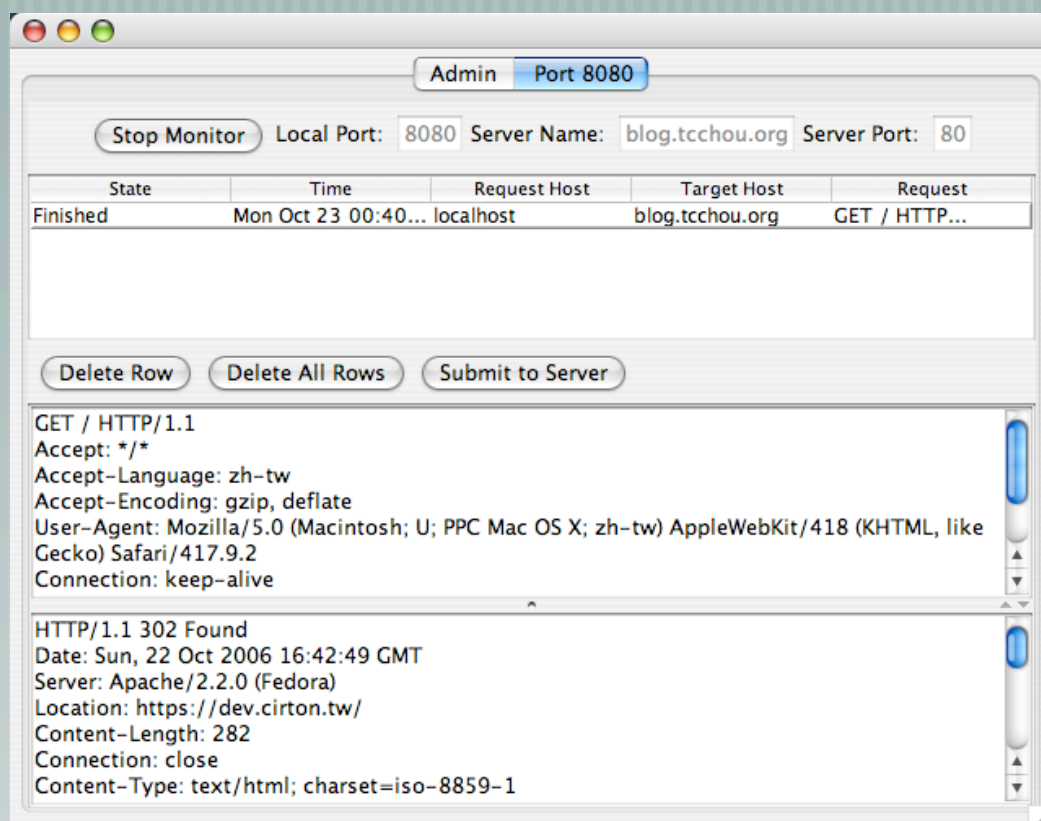
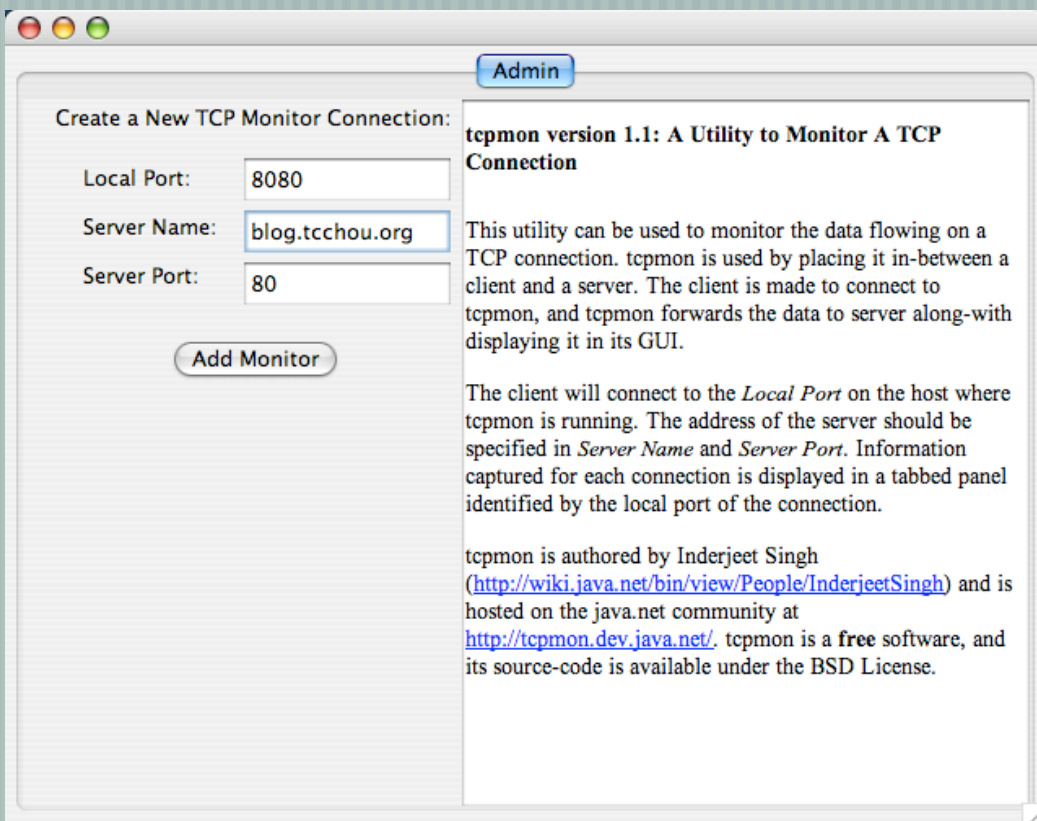
— youtube-dl

— [GUI


— Odeo Syncr 🖱️ iPodder 🖱️ Juice / iTunes

TCPMon

深入瞭解 AJAX



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QuicklyWiki	10-27-06
TripAdvisor Maps	10-27-06
AmzWish	10-26-06
Menuism	10-26-06
French Real Estate Mashup	10-26-06
Homo Britannicus	10-26-06
Park Reviews	10-26-06

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411Sync	46
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YouTube	43

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Most Popular Mashups

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Flash Earth	09-15-05
Weather Bonk	03-06-06
Where's Tim Hibbard?	09-22-05
Beam Me Up, Hottle	05-02-06
FlickrSudoku	05-03-06
LivePlasma	11-24-05
1001 Secret Fishing Holes	11-28-05
Diggdot.us	11-18-05
Adactio Elsewhere	11-20-05

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mapping	697
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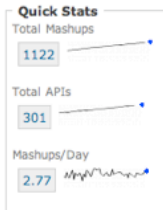
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Tag Cloud

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October 27, 2006

Mashup of the Day Game System Wars



★★★★★

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API + API = ?

View the ever expanding Mashup Matrix. It is now over 125 x 125 square...

Newest Comments

- AmzWish
- Amazon Prime Search
- Flowser
- Flickr TagMan

Newest Wiki Updates

- AlexaRadar
- mibazaar
- invaders
- geoPet

Latest Blog Entries

October 26, 2006

Best New Mashups: Visual Shopping and Geo IP

Another busy week of new mashups, with an average of more than five per day, with no signs of letting-up. The API of choice continues to be, surprise-surprise, Google Maps. A few of the other APIs used include Trynt API, the Amazon E-Commerce API and the Vast API.

Posted by John Musser. [Read the rest of this entry...](#)

October 26, 2006

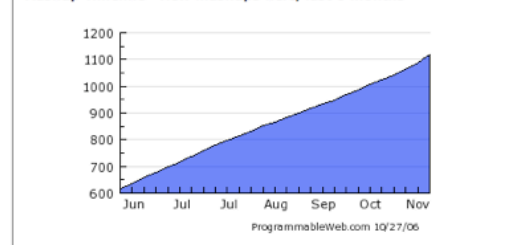
API Innovation and Mashup Networks

Last year in [this post](#) I mentioned some research being done by Bala Iyer and Venkat Venkatraman at Boston University -- now at Babson College -- where they have been investigating ecosystems and multi-sided markets. A particular focus has become what is happening with the major online platform vendors and the mashup space. Last fall we setup a system whereby Bala could dynamically pull a subset of data from the Programmable Web database in order to run some numbers for his research.

Posted by John Musser. [Read the rest of this entry...](#)

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Mashup Timeline - New mashups here, last 6 months



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標籤 Tag

Taxonomy, Folksonomy

— [Tasty <http://tasty.python-hosting.com/>

— TurboGears

— REST APIs

— [Tagger <http://www.openplans.org/projects/yucca/tagger-home>

— Zope 2, Zope 3, Plone

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