



# OpenSocial

中国 - 2008年10月

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Developer Relations

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软件工程师

# OpenSocial的目标

让互联网更加社会化

OpenSocial



## “社会化”是什么意思？

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“Eliette, 你和小伙伴们平时都在一起干嘛？”



# “社会化”是什么意思？



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# “社会化”是什么意思？

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TALKING





# “社会化”是什么意思？

---



LAUGHING





# “社会化”是什么意思？

---



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# “社会化”是什么意思？

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WE  
READ  
TOGETHER!





# “社会化”是什么意思？

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WE  
DO PROJECTS  
TOGETHER.

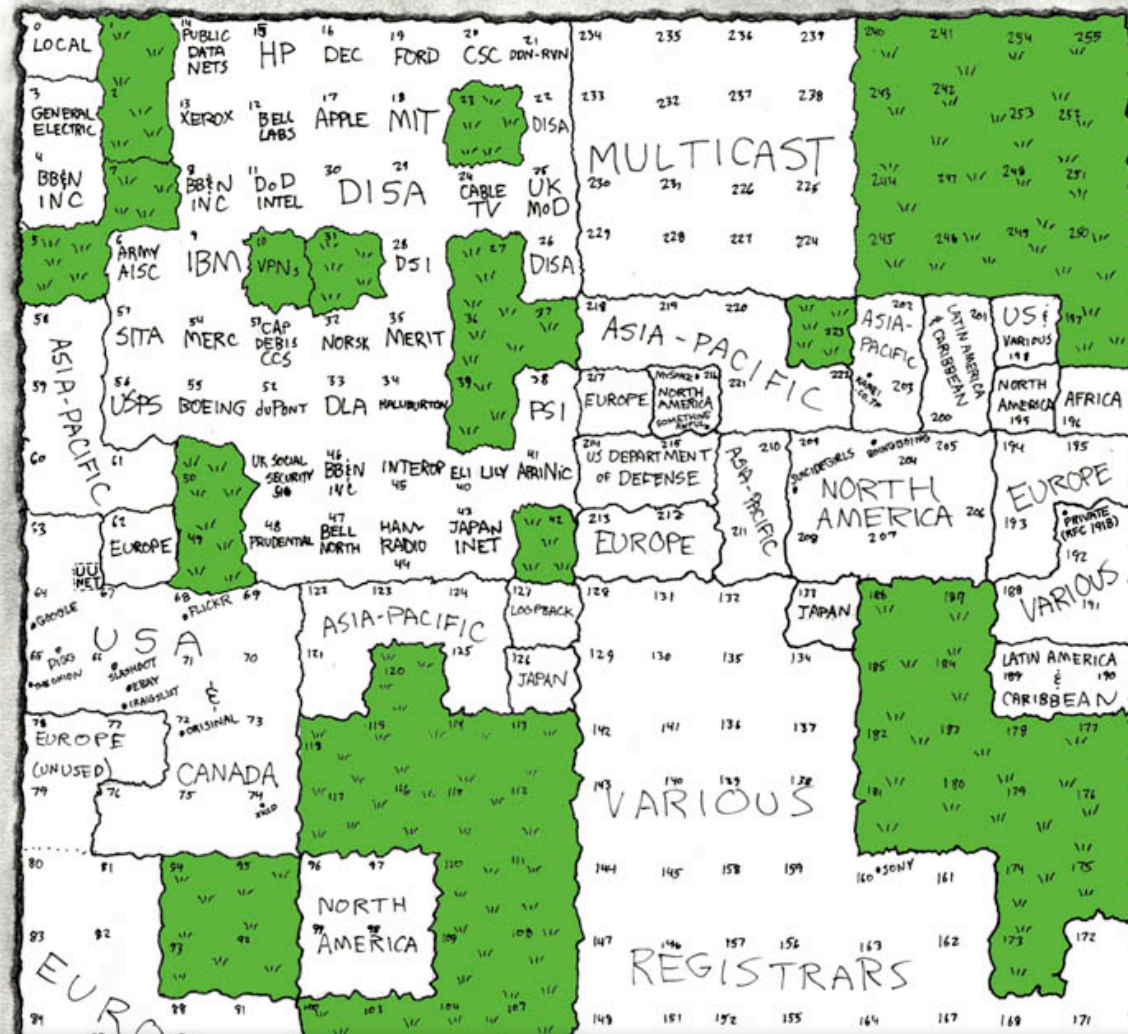






# “社会化”是什么意思？

MAP OF THE INTERNET  
THE IPv4 SPACE, 2006



“在Internet上，你和朋友们都在一起做什么？”

# Arne Roomann-Kurrik

Home > My profile

Wooo

edit

This is how my profile will look to

myself

scraps 2 photos 0 videos 0 fans 0 photos of me 0

“我们可以看到彼此”

about me: This is about me

age: 84

birthday: January 1

location: San Francisco, CA

[view full profile »](#)

## ▼ BuddyPoke!

[Poke a Friend](#) | [Change Mood](#) | [Custom](#)



[poke Stephanie Liu](#)

## my friends (34)



Jason



Surojit



Raj



Carne



Dan



bARN



Liina



<script>alert(0

[view all »](#) [manage](#) [find more friends](#)

## my communities (0)

[add communities](#)



What are you doing?

140

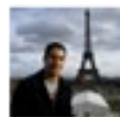
Latest: Finally in Shanghai for DevFest (<http://tinyurl.com/3neoot>) Tired, but want to shower and get through 6 days worth of email before sleeping. *1 day ago*

update

“聊天”



**spangley** "stop your messin' around/better think of your future/time you straightened right out/creating problems in town" RUDY! *2 minutes ago from web*



**jasoncosta** walking along the Huangpu river, watching neon reflections on the surface. it's peaceful this late. *44 minutes ago from mobile web*



**dalmaer** The next big language; Theory, practice, and the killer app: Ruby, and Rails was so 2005, at least for so.. <http://tinyurl.com/4xgzb4> *about 1 hour ago from twitterfeed*



**pamelafox** rode a bike for 3 hours all over shanghai (puxi + pudong), stood under shiny ball and very tall samurai vanishing point building,+ had boba! *about 1 hour ago from web*



**dalmaer** Interesting view of the keynote yesterday. Steve needs to setup his successors for tomorrow, or 10 years from now <http://is.gd/45Df> *about 1 hour ago from web*



**spangley** @kellianne happy birthday beautiful lady! if i knew italian i would say it in italian too. oh well, english will have to suffice! *about 2 hours ago from txt in reply to kellianne*



kurrik

19 following

46 followers

563 updates

Get Some Perspective  
[Watch Hack the Debate](#)

Home

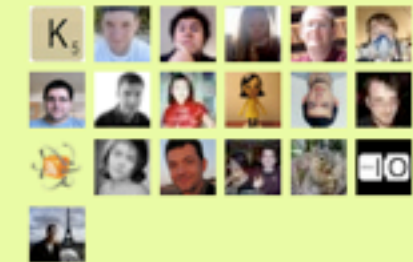
@Replies

Direct Messages 25

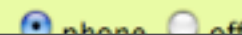
Favorites

Everyone

Following [add](#)



Device Updates



# humping dog - i bought one

Share This

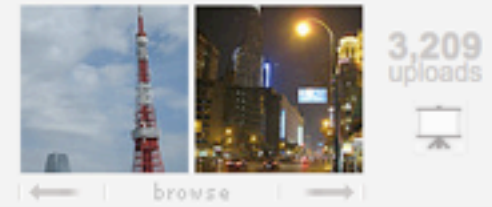
ADD TO FAVES ADD NOTE BLOG THIS ALL SIZES



“欢笑”

Uploaded on October 15, 2008 by fkedupmonkey

fkedupmonkey's photostream



This photo also belongs to:

Tokyo, Japan (Set)



Tags

Eye-Fi

Add a tag

Additional Information

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Anyone can see this photo

Taken with a Canon PowerShot SD870 IS.

More properties

Taken on October 12, 2008

Viewed once

Add your comment





loans that change lives

LEND

ABOUT

COMMUNITY

JOURNALS

MY PORTFOLIO

## BELLES-DAMES Group



“我们相互帮助”

The four women of the Belles-Dames group (all married) have an average age of 35 and two children, and live in traditional large, extended families in the Hamdallaye district of Sikasso (the third administrative region of the Republic of Mali). Brought together through neighborhood, professional and family connections, they sell mainly firewood, soap, cloth and vegetable oil. In order to meet the continually growing demand of their customers, the group decided to join the Soro Yriwaso microfinance institution, with whom they are now on their 6th solidarity (group) loan. All previous loans were repaid successfully. The members of the group plan to use this loan to purchase 8 loads of firewood, 10 boxes of soap, 45 meters of cloth and 5 drums of vegetable oil. They buy their supplies of cloth, vegetable oil and soap only in Sikasso, from local wholesalers at the main market. With respect to firewood, they buy this from the peasants (holding a cutting permit) who supply the town. Typically they run their business from home or by walking around, and sell mainly to women. They each hope to make from this loan an average profit of CFA 20,000 per month, which will be used to pay the loan interest and provide for their families' needs. The remainder will be invested in the business.

### Make a loan

\$1,050.00 Loan Request  
\$750.00 Raised so far  
\$300.00 **still needed**

\$25.00

LEND NOW

30 days left

**Group Name:** BELLES-DAMES Group

**Group Members:** Maïmouna Konate  
Maïmouna Konate  
Awa Diallo Awa Diallo  
Alima Ballo Alima Ballo  
Kadiatou Dembele

**Location:** Sikasso, Mali

**Primary Activity:** Retail

**Loan Requested:** \$1,050.00

**Repayment Term:** 6 months

**Loan Use:** To buy firewood, soap, cloth and vegetable oil

**Date Posted:** Oct 15, 2008

About the Field Partner



My Shelfari ▾

Books

Authors

Members

Groups

Books ▾



Arne R

member since Wednesday, October 15 2008

“我们分享阅读”

[Edit My Settings](#)[Find Friends](#)[Invite Friends](#)[Add a Book](#)

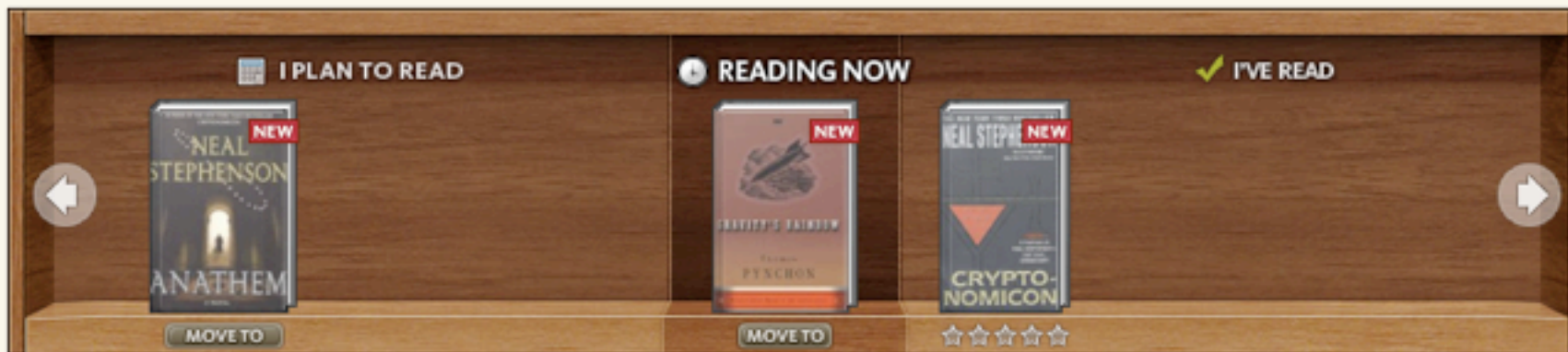
What's New

Profile ▾

Shelf (3) ▾

Friends (0) ▾

Groups (0)



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[CubiScan Dimension](#)  
Dimensioning systems  
manifesting and logist  
[www.cubiscan.com](http://www.cubiscan.com)

A V

## The What's New Page

Once you add your books and friends, this page will show what your friends are reading, activity in your books and other important announcements.

### Getting Started

Using Shelfari is fun and easy. Just follow the steps below to get started.

#### 1. Update Your Profile

**New Public Not**  
You don't have any u

Hint: If you want more





# Hello, kurrik!

[Take me to my 1 thing...](#)

Discover what's important, make it happen, share your progress. Find your 43 things. [Learn more...](#)


## What do you want to do with your life?

I want to do this

Think Local

What do people want to do near you? [Add your city](#) to put your place on the map.

1,638,798 people in 15,032 cities are doing 1,374,738 things including...

[see U2 in concert](#) [Read more](#) [see the northern lights](#)  [zlataa wants to get better at keeping](#)

[in touch with people who are important to me](#) [have a white christmas](#) [write a book](#) [become a](#)

[mermaid and how do i do this](#) [write a song](#) [go on a road trip with no predetermined](#)

[destination](#) [Dress better](#) [save money to buy a house](#) [grow my own vegetables](#) [get a hammock](#) [be a model](#)

 [Vipergrl678 wants to Lose 10 pounds](#) [Marry Sonny Moore](#) [get in shape](#) [learn medical spanish](#) [be a](#)

[member of demonoid.com](#) [Swim with dolphins](#) [have skinny thighs](#) [move to Las Vegas](#)  [hornbreaker wants](#)

[to learn german](#) [be more efficient with my time](#) [have normal sleep hours](#) [grow a herb garden](#) [play my saxophone](#)


[more often](#) [get an industrial piercing](#) [Get Dylan Sprouses cell phone #](#) [design a clothing line](#) [Elect Barack Obama](#)

[president](#) [build my own website](#) [Stop being moody](#) [Eat more fruits and vegetables](#) [get a dog](#) [visit San Fransisco](#)


[To live instead of exist](#) [Finish what I start](#) [be flexible](#) [Write a book and get it published](#)  [Mrs. Ebert](#)

[wants to accept myself](#) [identify 100 things that make me ha](#)

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[wants to learn the capital of every country](#) [Start my own business](#) [watch Inuyasha episodes](#) [create my own](#)

“我们一起工作”



# 社会化网络

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## 一个有社会化功能的网站...

- 提供更有趣的功能 / 特性, 来吸引大量的用户增长
- 保存用户间的联系信息, 来反应人们之间的关系

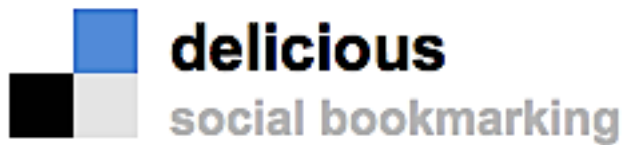




# 社会化网络

一些有社会化功能的网站...

豆瓣 **douban**







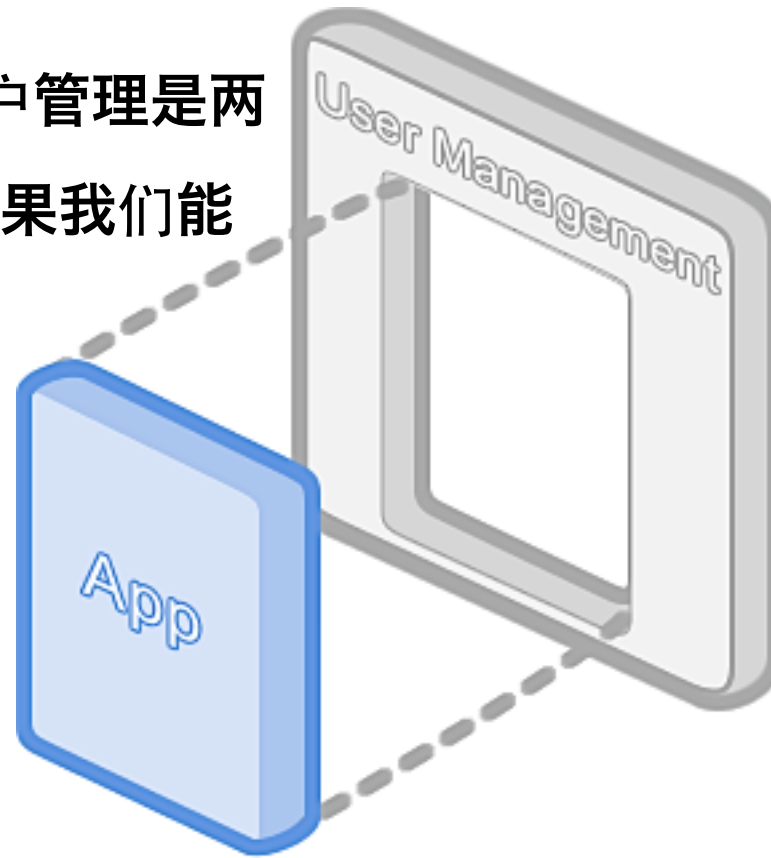
## 社会化网络

### 一个有社会化功能的网站...

- 管理用户和联系需要大量的开销
- 因为需要注册等流程, 用户量成长比较缓慢

但是, 社会化应用和用户管理是两个可以分割的部分。如果我们能将他们分离开来:

- 开发人员就可以专注于应用功能的实现, 而不必考虑用户管理



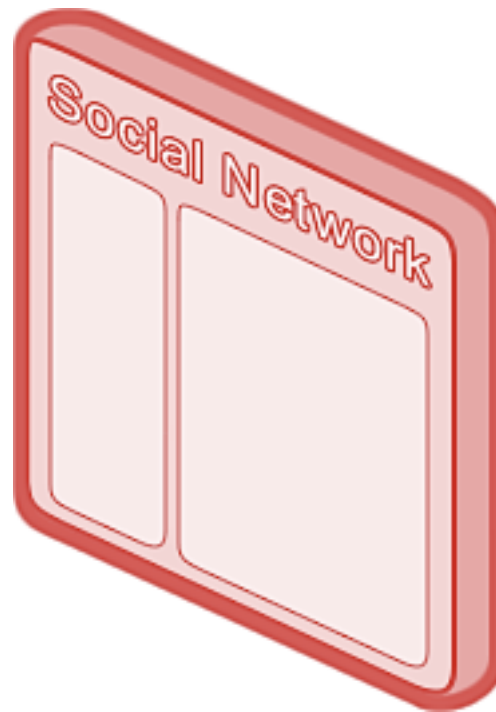


# 社会化网络

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## 一个社交网络...

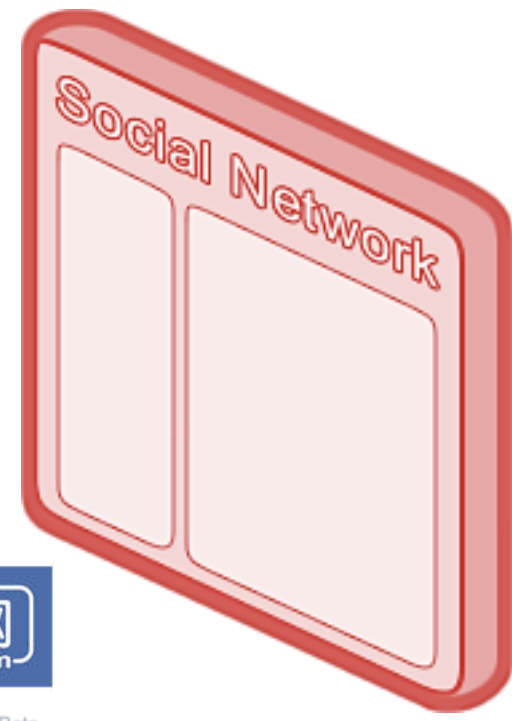
- 管理了大量有价值的用户和关系信息
- 限于资金, 人力等资源, 添加新功能的速度较慢





# 社会化网络

很多的社交网络...



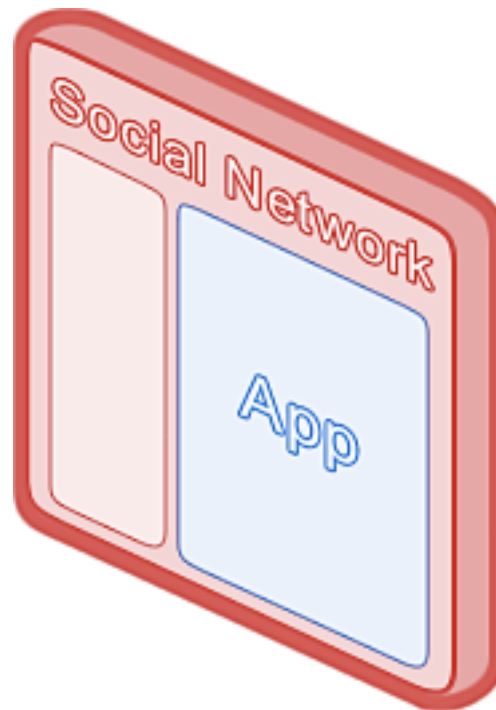


# 社会化网络

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## 一个社会化应用...

- 让社交网络来管理用户及他们间的关系, 并为其添加有吸引力的功能
- 在社交网络的同一个帐户下, 用户可以通过“安装”来享受不同的应用
- 因为用户已经在社交网络中相互连接起来, 应用的用户数可以快速增长





# 社会化网络

很多的社会化应用...



BuddyPoke!



slide

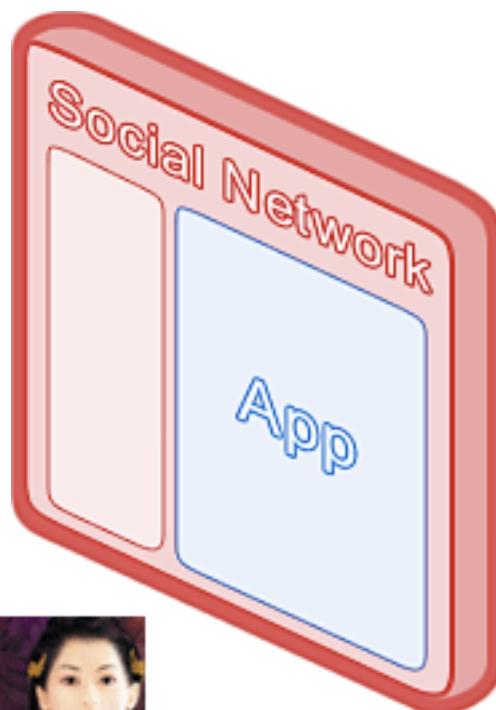


反恐大作战

imeem 



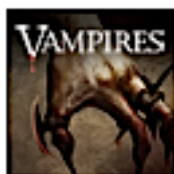
SuperPets



Hold'Em



结婚  
真爱无敌



VAMPIRES



RockYOU!



readingsocial



Slapster™



谁动了  
我的妃子



Flixster



斗地主



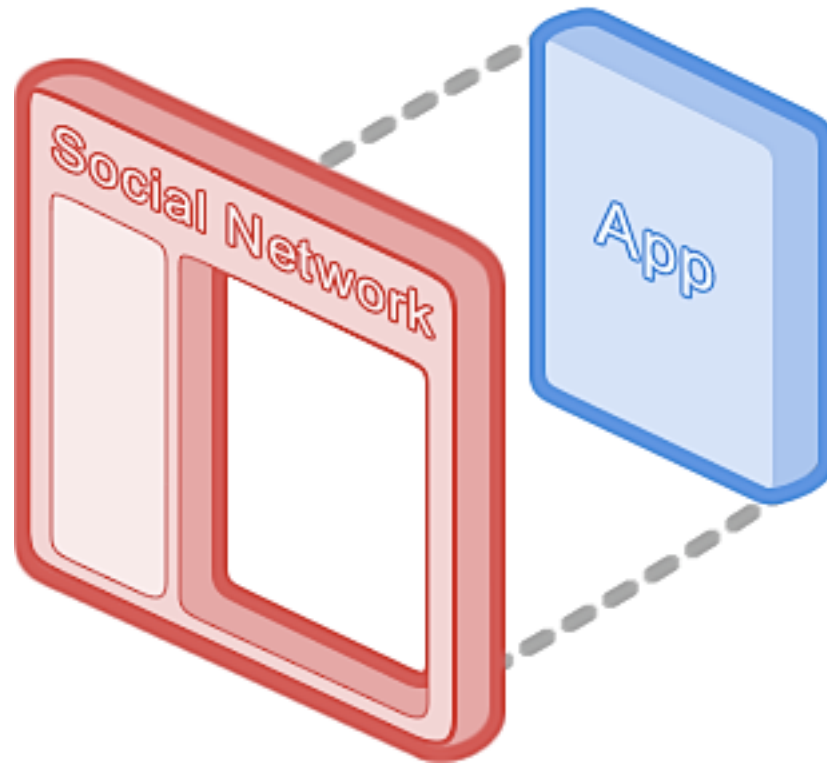
Hotameter



## 社会化网络

### 设想一下, 我们如何在社交网络上增加新功能?

- 让社交网络变成一个平台, 为应用提供用户并给他们带去流量
- 给富有创造力的开发者们一些称手的工具, 让他们自己来开发应用, 从而吸引更多的注册用户, 并增加平台的用户粘度
- 社交网络 + 社会化应用 = 更好的互联网!



## 需求: Social API

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我们如何将应用投入社会化网络里?

OpenSocial





# 一个社会化应用开发者的一天

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# 一个社会化应用开发者的一天

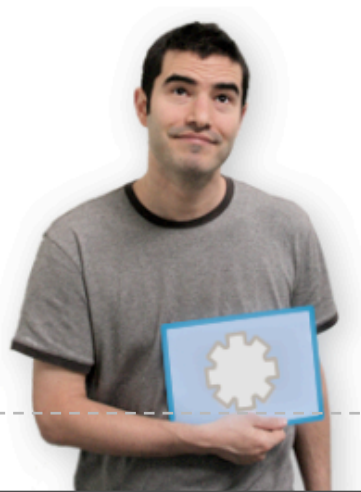
---



API



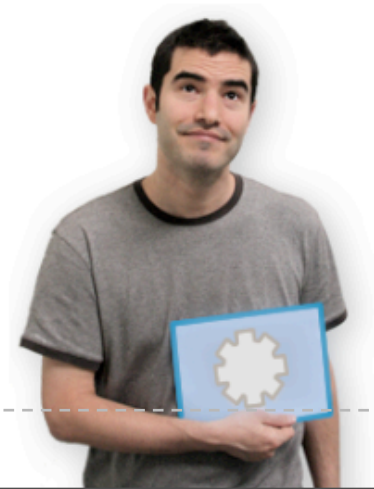
Friends  
Profiles  
Activities





# 一个社会化应用开发者的一天

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# 一个社会化应用开发者的一天

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## 一个社会化应用开发者的一天

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# opensocial

通过一组相同的API，所有支持OpenSocial技术标准的社区都能向上提供统一的社会化数据服务。应用开发人员的社会化应用只需编写一次，就可以跨越网站的不同，在所有支持OpenSocial技术标准的社区上部署。



## 一个社会化应用开发者的一天

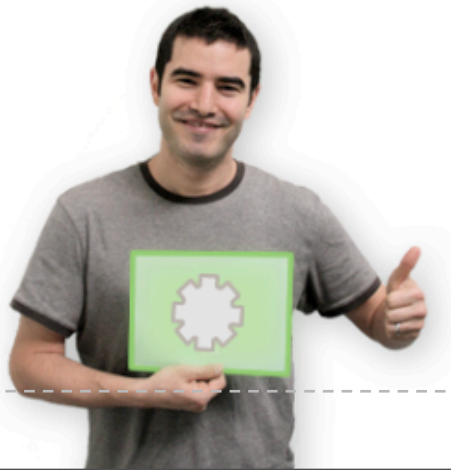
---

# opensocial $\neq$ Google™ social

作为一个开放的标准，OpenSocial由OpenSocial基金会运作，由独立的委员会执行，每个团体或个人都可以贡献自己的建议并最终可能被委员会采纳。



# 一个社会化应用开发者的一天







# 一个社会化应用开发者的一天





## OpenSocial介绍

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### 它已经:

- 被19+个社区支持, 并有40+个社区网站正在推进中
- 吸引了两万多位开发人员, 创造出三千多个应用
- 覆盖超过四亿最终用户

### 在中国:





## OpenSocial API的进展

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### 版本沿革:

- **0.6** - 引入浏览器上运行的客户端API (JavaScript)
- **0.7** - 引入服务器端交互API (RESTful)
- **0.81 (当前版)** - 服务器端API标准化定稿

### 客户端接口: 使用标准的JavaScript, 可用标准的Web开发工具

- Gadgets XML
- Gadgets JavaScript
- OpenSocial JavaScript

### 服务器端接口: 标准的JSON / XML格式, 使用OAuth进行认证

- RESTful protocol
- RPC protocol

# Gadgets – 页面应用

插件, 挂件, 构件, 工具... – 关于小应用的一切

OpenSocial



## 小应用 – 名词释意

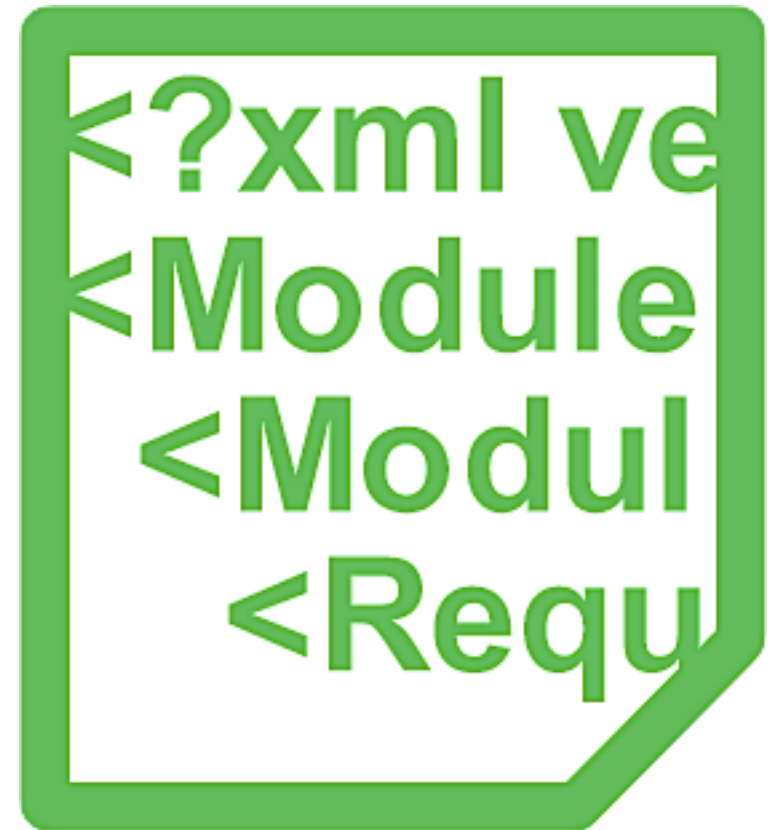
---

### Gadget Spec (应用图纸):

- 是一个XML文件, 定义了OpenSocial应用的元数据
- 可以方便地存储在普通Web服务器, 或Web服务 (如Google Pages) 上
- 非常容易做缓存, 因此存储该文件的服务器并不需要很高的性能

### 小应用的开发遵循了现有的标准Web技术

- **XML** 用来定义元数据
- **HTML** 用作标签语言
- **JavaScript** 提供了动态交互性的支持
- **CSS** 则提供了格式化显示的支持



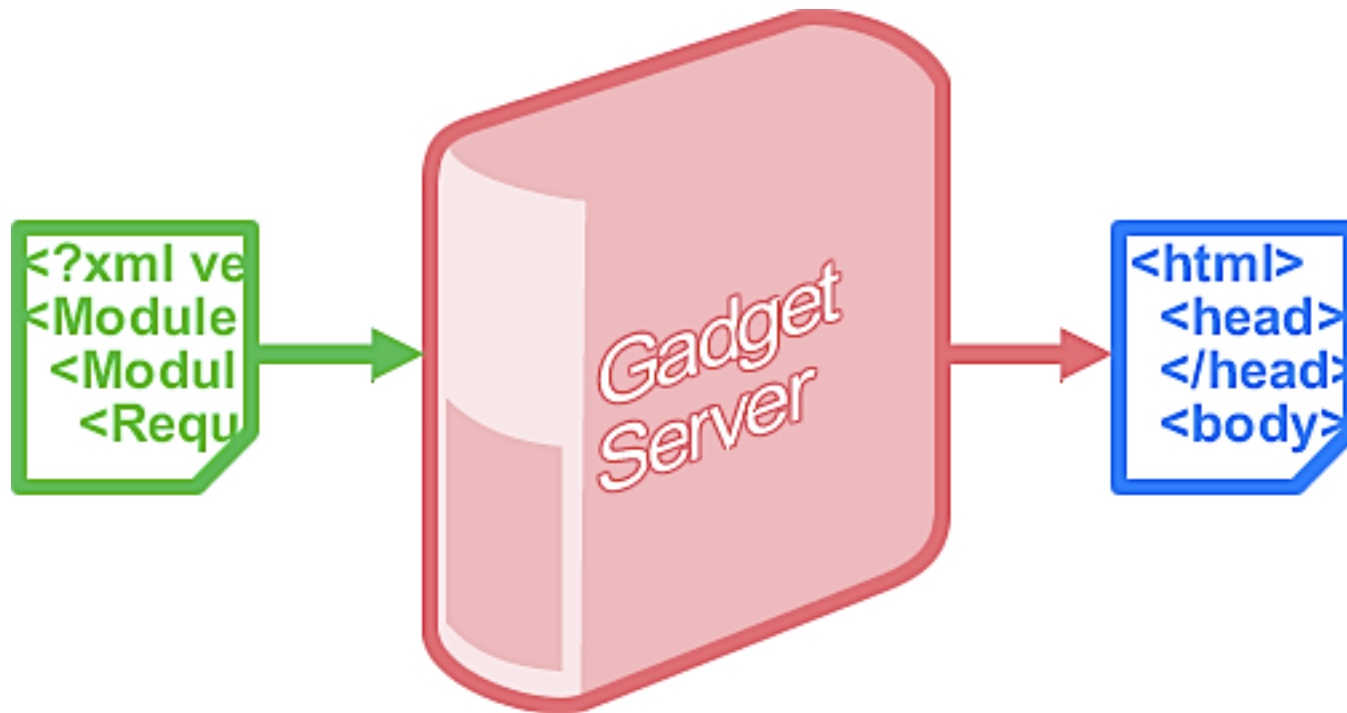


## 小应用 – 名词释意

---

### 应用渲染服务器:

- 以Gadget Spec (应用图纸)为输入
- 对Gadget Spec做优化处理, 如合并多个JavaScript文件以减少网络负载
- 将 **HTML**, **JavaScript**, 和 **CSS** 放在一起, 输出为一个文件







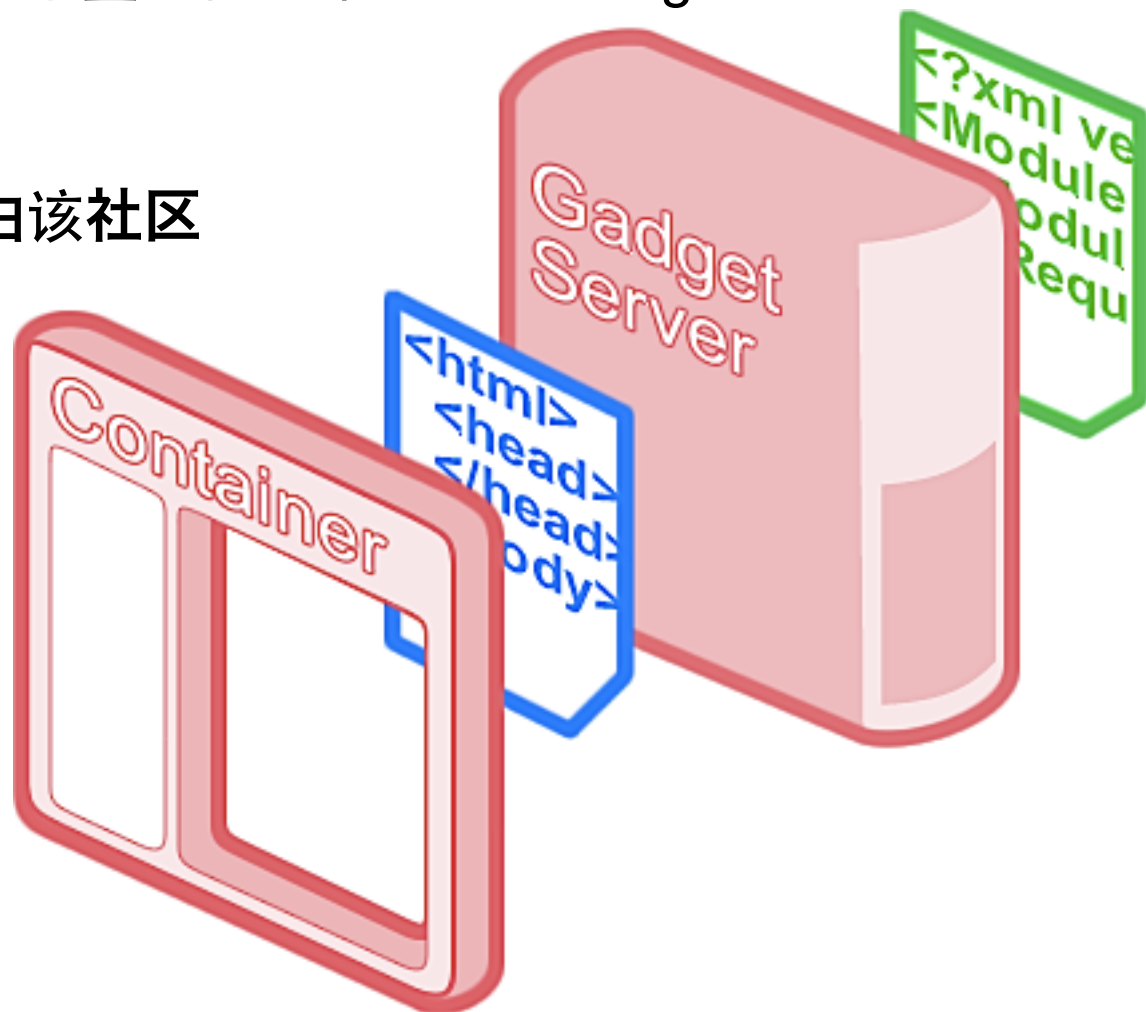
## 小应用 – 名词释意

---

### 容器:

- 一个显示该社区网络中, 用户的交互界面
- 包含了一个iframe模块, 用来显示被渲染完成的Gadget

容器和应用渲染服务器都是由该社区网站运行并维护的, 如右图所示。但是它们不必运行在一台物理主机上, 甚至不用运行在一个Domain下。





## 小应用 – Gadget Spec 示例 XML 文件

- 使用 **HTML** 来打印 “Hello World”
- 用 **CSS** 控制文字颜色
- 用 **JavaScript** 动态调整应用的高度

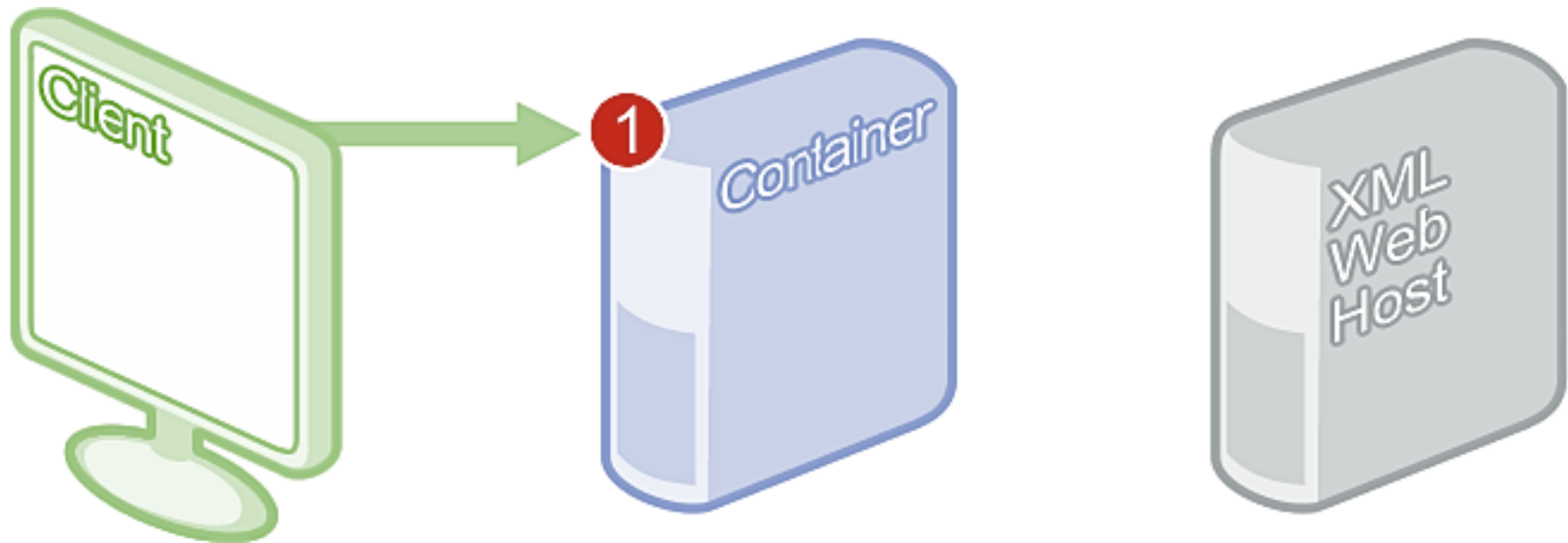
```
<?xml version="1.0" encoding="UTF-8" ?>
<Module>
  <ModulePrefs title="Hello World!">
    <Require feature="dynamic-height" />
  </ModulePrefs>
  <Content type="html">
    <![CDATA[
      <h1>Hello World</h1>
      <style type="text/css">
        h1 { color: #dd0000; }
      </style>
      <script type="text/javascript">
        gadgets.window.adjustHeight();
      </script>
    ]]>
  </Content>
</Module>
```



## 小应用 – 渲染展示应用

### 请求Gadget Spec的XML文档

1. 客户端发出请求, 要求渲染一个Gadget。

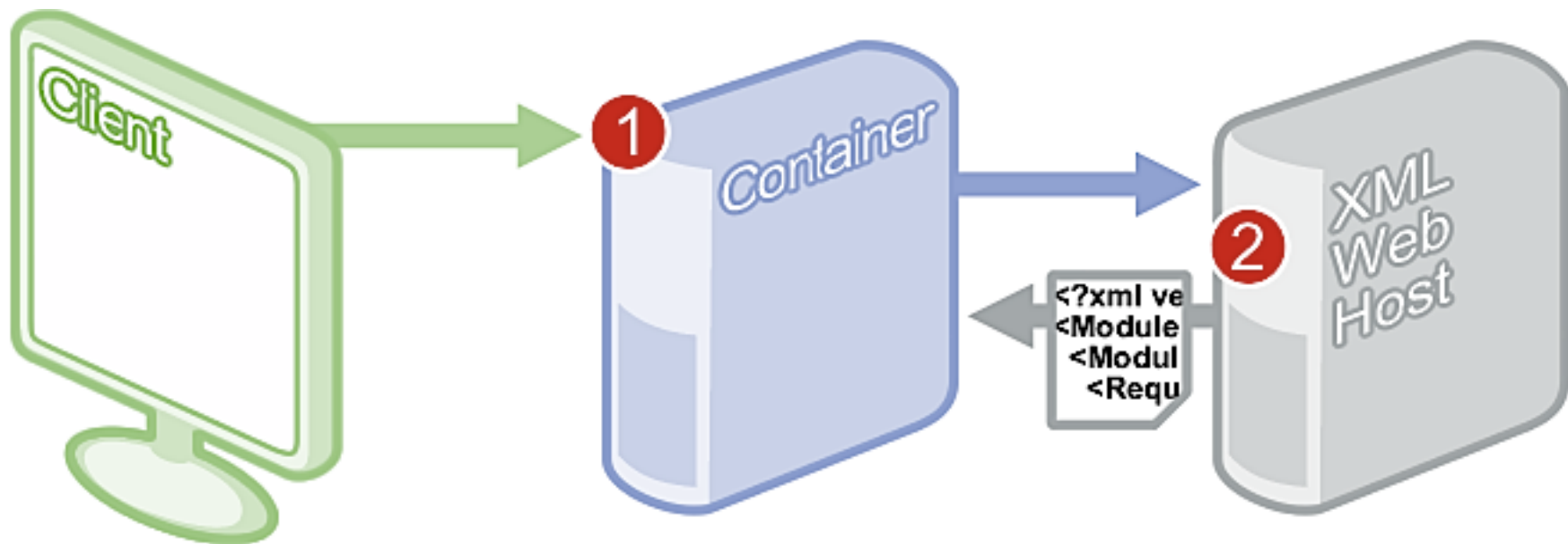




## 小应用 – 渲染展示应用

### 请求Gadget Spec的XML文档

1. 客户端发出请求, 要求渲染一个Gadget。
2. 容器从XML的Web服务器上, 取回Gadget Spec的XML文档。

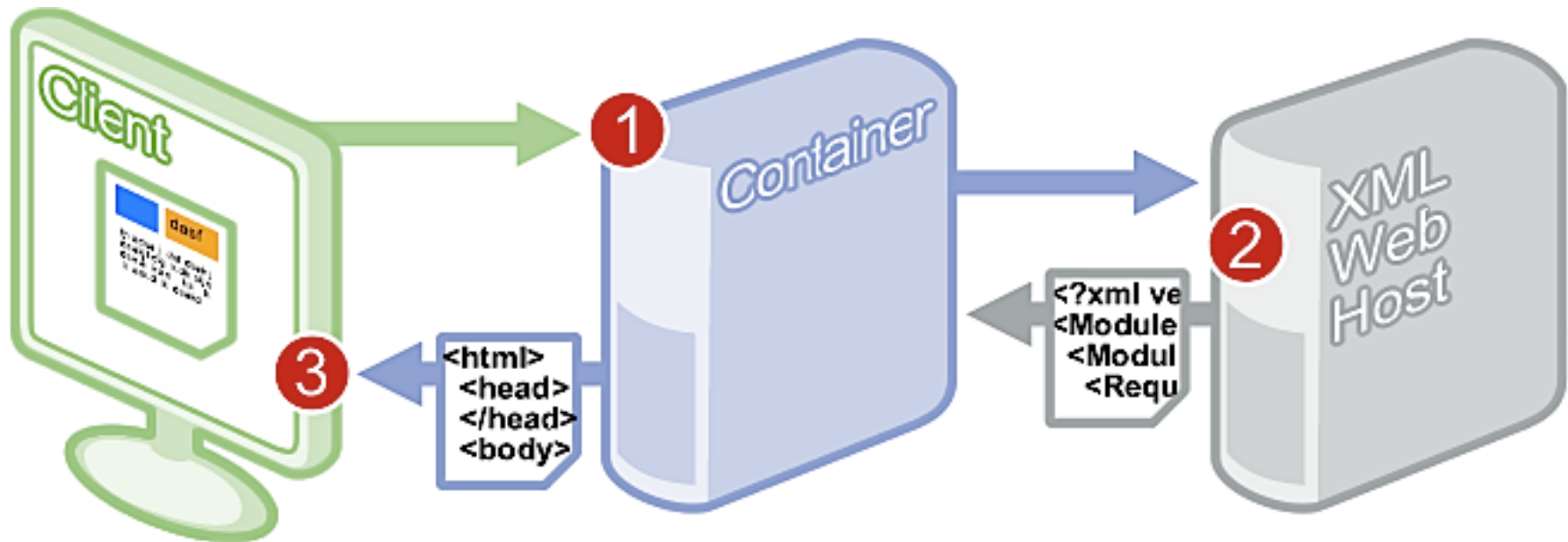




## 小应用 – 渲染展示应用

### 请求Gadget Spec的XML文档

1. 客户端发出请求, 要求渲染一个Gadget。
2. 容器从XML的Web服务器上, 取回Gadget Spec的XML文档。
3. 容器将XML格式的Spec渲染为HTML文档, 并呈现在用户的客户端上。





## 小应用 – 渲染展示应用

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### 请求Gadget Spec的XML文档

- 因为Gadget Spec比较简单, 所以可以很方便地做缓存
- 缓存可以很大程度上减少服务器负载, 尤其是当该应用有大量用户的时候

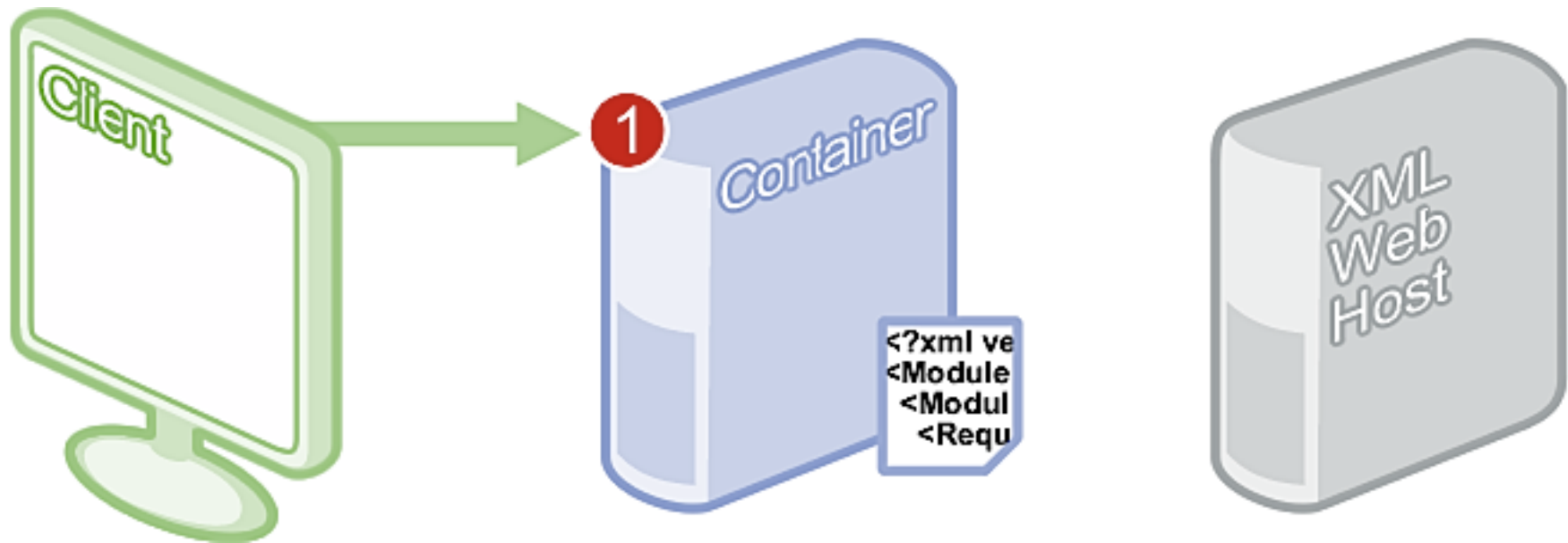




## 小应用 – 渲染展示应用

### 请求有缓存的Gadget Spec的XML文档

1. 客户端发出请求, 要求渲染一个Gadget。容器在它自己的缓存里已经有了该Spec文档的一份拷贝。

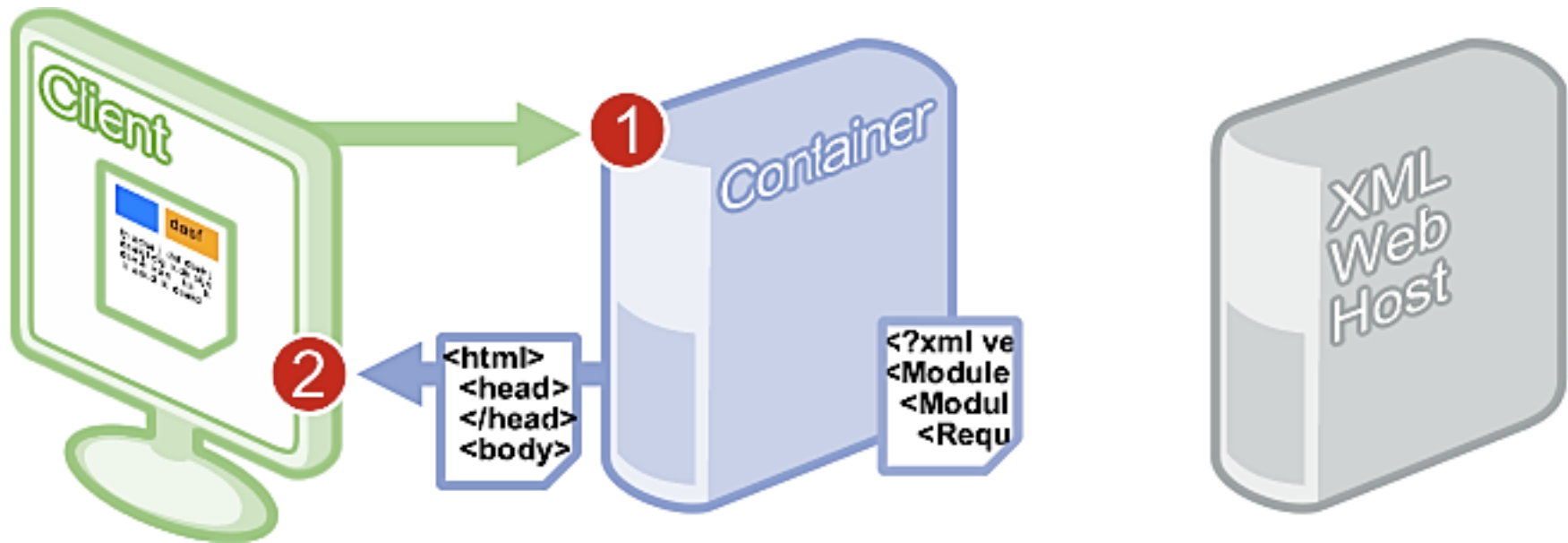




## 小应用 – 渲染展示应用

### 请求有缓存的Gadget Spec的XML文档

1. 客户端发出请求, 要求渲染一个Gadget。容器在它自己的缓存里已经有了该Spec文档的一份拷贝。
2. 容器将XML格式的Spec渲染为HTML文档, 并呈现在用户的客户端上。





## 小应用 – 渲染展示应用

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### 应用渲染服务器做了哪些重写的工作？

- 重写图片链接地址等内容, 以使用内容代理服务器
- 在一些服务器上, 将相对路径改写为绝对路径
- 对于每个特定的**view**, 只返回对应的内容



## 小应用

---

### 什么是 views?

- 小应用可能被放置在页面的不同位置, 而所占用的空间也大小不等。
- 有的容器页面是公开可访问的, 而有些则不是。
- 对于小应用在不同性质页面上的展示, 有不同的政策限制, 尤其是在是否可以显示广告这个问题上。
- 总之, 通过 **views** 的提示, 小应用可在不同位置展示时选用不同的功能。

### Flood-It!

Round 0/25

Max mode  
New game  
More games

Board: 14X14 | 21X21 | 28X28

[Play More Games](#)

### NYTimes.com - Top Stories

#### The Doctor's World: Many Holes in Disclosure of Nominees' Health

The limited information provided by the candidates is a striking departure from recent campaigns in a year when their health carries extraordinary significance.

- Donation Record as Colin Powell Endorses Obama
- The Media Equation: Jim Cramer Retreats Along With the Dow
- Deficit Rises, and Consensus Is to Let It Grow
- Drug Killings Haunt Mexican Schoolchildren

[More news »](#)

### The Wall Street Journal

[WHAT'S NEWS](#)

[VIDEO](#)

#### Obama Shatters Fund-Raising Record

Obama's \$150 million fund-raising haul in September puts him in position to swamp McCain in advertising and bankroll a ...

[Signs of a Pullback Emerge in Hollyw](#)

[Bush Plans Crisis Summit](#)

[Pollution Credits Let Dumps Double](#)

[Iraq-U.S. Security Pact Moves Forwa](#)

## iGoogle 的 "home" view:

- 在 iGoogle 上, "home" view 是一个窄小的, 只有当前登录用户可见的页面, 其上不允许刊载广告。

# The New York Times

## LATEST HEADLINES »

### The Doctor's World: Many Holes in Disclosure of Nominees' Health

By LAWRENCE K. ALTMAN, M.D.

The limited information provided by the candidates is a striking departure from recent campaigns in a year when their health carries extraordinary significance.

### Donation Record as Colin Powell Endorses Obama

By JEFF ZELENY

The endorsement could lift Barack Obama among independents, and his campaign war chest could help him sell that message.

### The Media Equation: Jim Cramer Retreats Along With the Dow



## BUSINESS »

### When Investors Sweat and Tremble, Eyes Turn to the Fear Index

By MICHAEL M. GRYNBAUM

The Chicago Board Options Exchange Volatility Index, or the VIX, measures volatility, the technical term for wrenching market swings.

### Regions in Recession, Says

REUTERS

Edward P. Lazear, chairman of the Council of Economic Advisors, says some regions of the country are struggling with high jobless rates.

### The Netherlands to Propose 10 Billion to the ING Group

By DAVID JOLLY

The capital injection of 10 billion euros gives the Dutch government an 8.5 percent stake in the bank.

## OPINION »

### Op-Ed Columnist: He Just Can't Quit W

By FRANK RICH

It's not just the economy. And it's not just President Bush. John McCain is to blame for his own campaign's disastrous course.

### Op-Ed Columnist: After W., Le Deluge

By MAUREEN DOWD



## iGoogle 的 "canvas" view:

- 在 iGoogle 上, "canvas" view 可以有较宽的页幅和高度, 同时上面也允许小应用刊载广告。

### Editorial: Another Invitation to Abuse

In the Bush administration's last months, it continues to violate Americans' civil liberties and undercut the balance of





## 小应用

---

### 在Gadget Spec XML中使用 views:

- 对每个view, 可以用 `<Content>` 标签段进行多次标注
- 为每一个标签段添加一个 `view="view names"` 属性
- 同一标签段可以支持多个view属性, 如 `view="home,canvas"`

```
<?xml version="1.0" encoding="UTF-8" ?>
<Module>
  <ModulePrefs title="Hello World!">
    <Require feature="dynamic-height" />
  </ModulePrefs>
  <Content type="html" view="home">
    <![CDATA[
      ...
    ]]>
  </Content>
  <Content type="html" view="canvas">
    <![CDATA[
      ...
    ]]>
  </Content>
</Module>
```



## 小应用

---

### 辅助JavaScript函数库:

- **gadgets.io.makeRequest()**  
跨浏览器兼容地, 向远端服务器发出跨域AJAX请求
- **gadgets.json.parse()** and **gadgets.json.stringify()**  
提供原生的JSON支持, 消除了eval函数
- **gadgets.util.escapeString()**  
使通过innerHTML显示的文字变得安全
- **gadgets.util.registerOnLoadHandler()**  
当页面载入完成后, 执行相应代码



## 小应用 – 远程数据交互

### **gadgets.io.makeRequest():**

- 跨浏览器兼容地, 向远端服务器发出跨域AJAX请求

### 远程机器上的内容:

- 很多有趣的应用, 需到远程的应用提供商, 或第三方服务器上获取数据或内容。
- 普通的AJAX请求不支持跨域访问。
- JSONP只在服务器有支持的情况下, 可以进行单向的数据传输。
- 一个有百万用户使用的小应用, 其数据交互量足以使远程主机瘫痪。

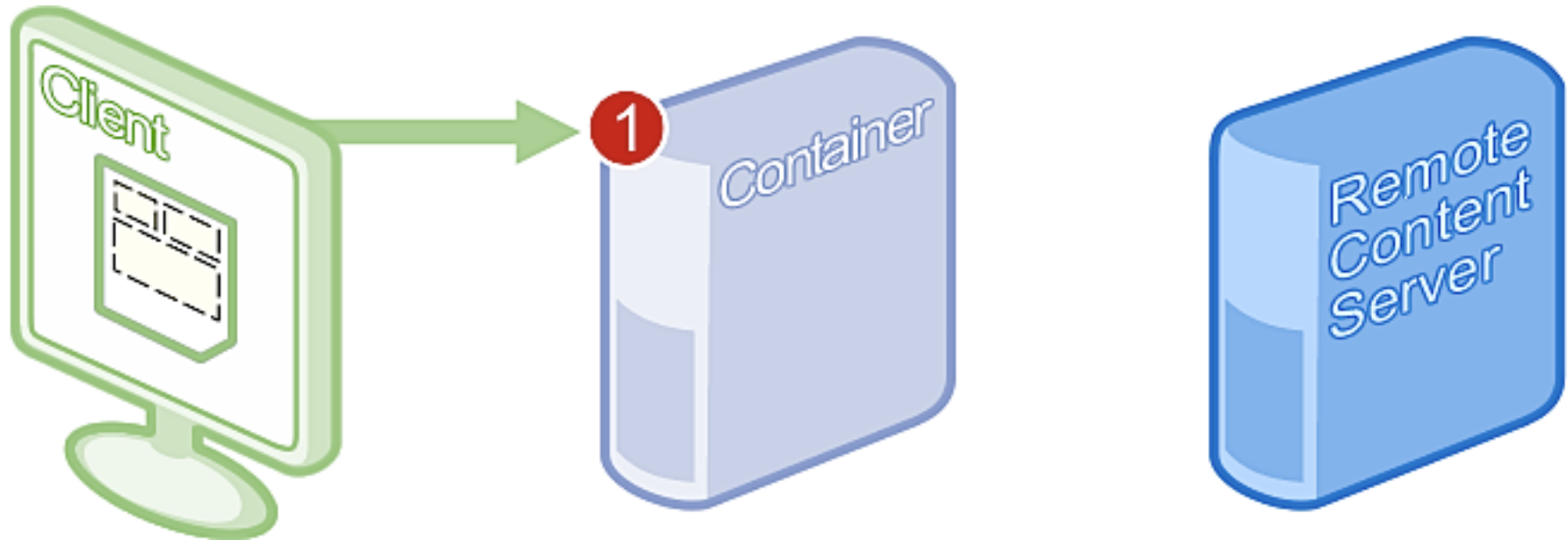




## 小应用 – 远程数据交互

请求获取远程数据或内容:

1. 正在展示的小应用通过调用 `gadgets.io.makeRequest()` 函数, 来获取远程的内容。这个请求被发往容器服务器。

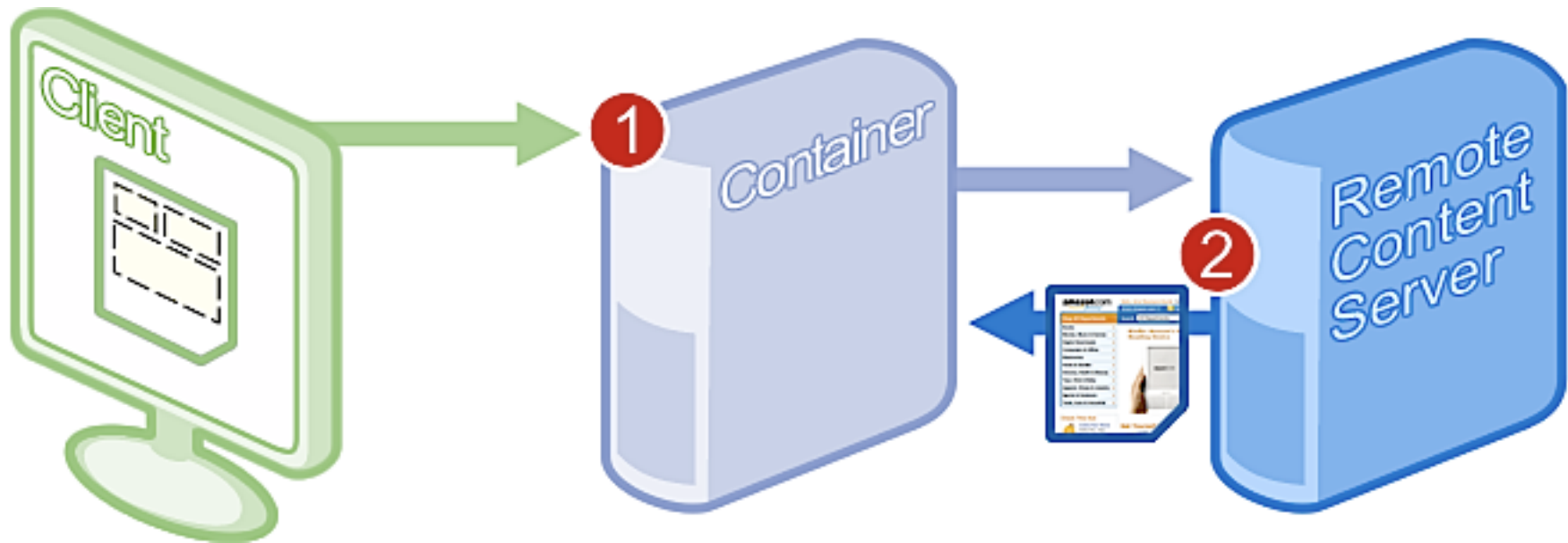




## 小应用 – 远程数据交互

请求获取远程数据或内容:

1. 正在展示的小应用通过调用 `gadgets.io.makeRequest()` 函数, 来获取远程的内容。这个请求被发往容器服务器。
2. 容器服务器向远程的URL请求该内容。

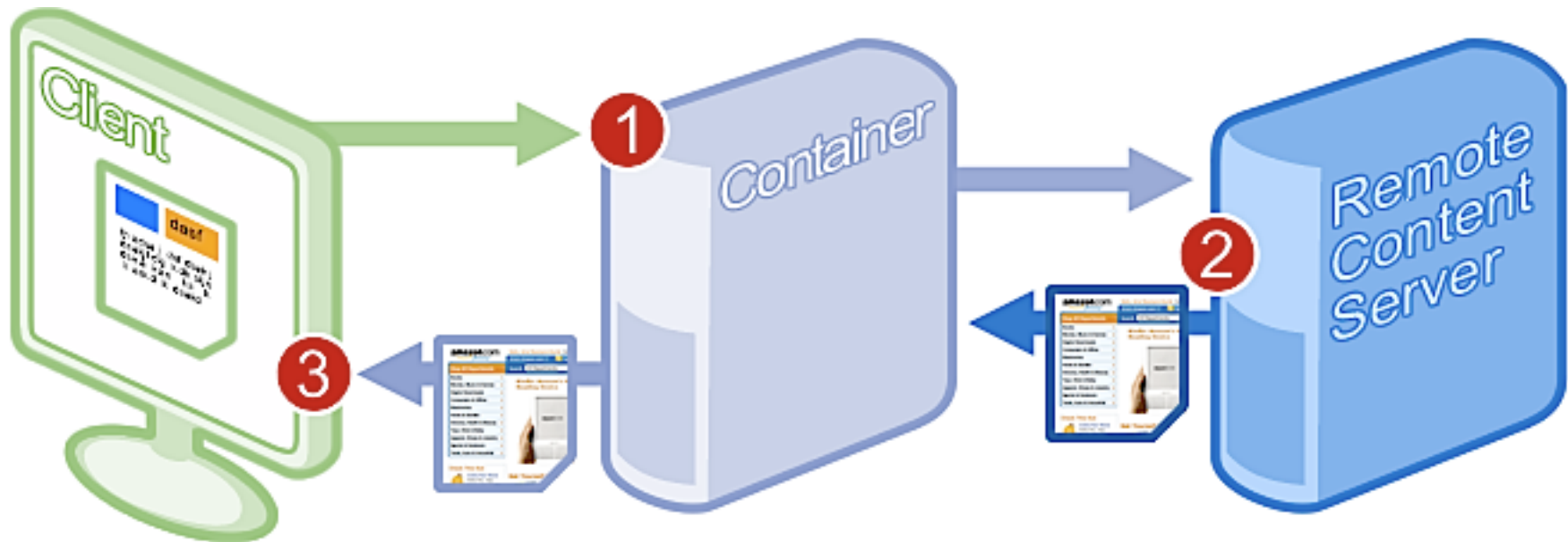




## 小应用 – 远程数据交互

### 请求获取远程数据或内容:

1. 正在展示的小应用通过调用 `gadgets.io.makeRequest()` 函数, 来获取远程的内容。这个请求被发往容器服务器。
2. 容器服务器向远程的URL请求该内容。
3. 容器服务器将结果传回小应用, 并由其渲染在页面上。





## 小应用

---

### 加入更多的功能:

- **dynamic-height** - 动态修改在容器中显示的应用的高度 / 大小
- **views** - 使应用感知其处于不同状态的容器中, 如前所述
- **skins** - 使应用和容器的风格相一致
- 容器还可能提供其他定制的功能...
- **OpenSocial JavaScript API**也是应用功能的一种!

```
<?xml version="1.0" encoding="UTF-8" ?>
<Module>
  <ModulePrefs title="Hello World!">
    <Require feature="dynamic-height" />
    <Require feature="opensocial-0.8" />
  </ModulePrefs>
  <Content type="html">
    <![CDATA[
      ...
    ]]>
  </Content>
</Module>
```



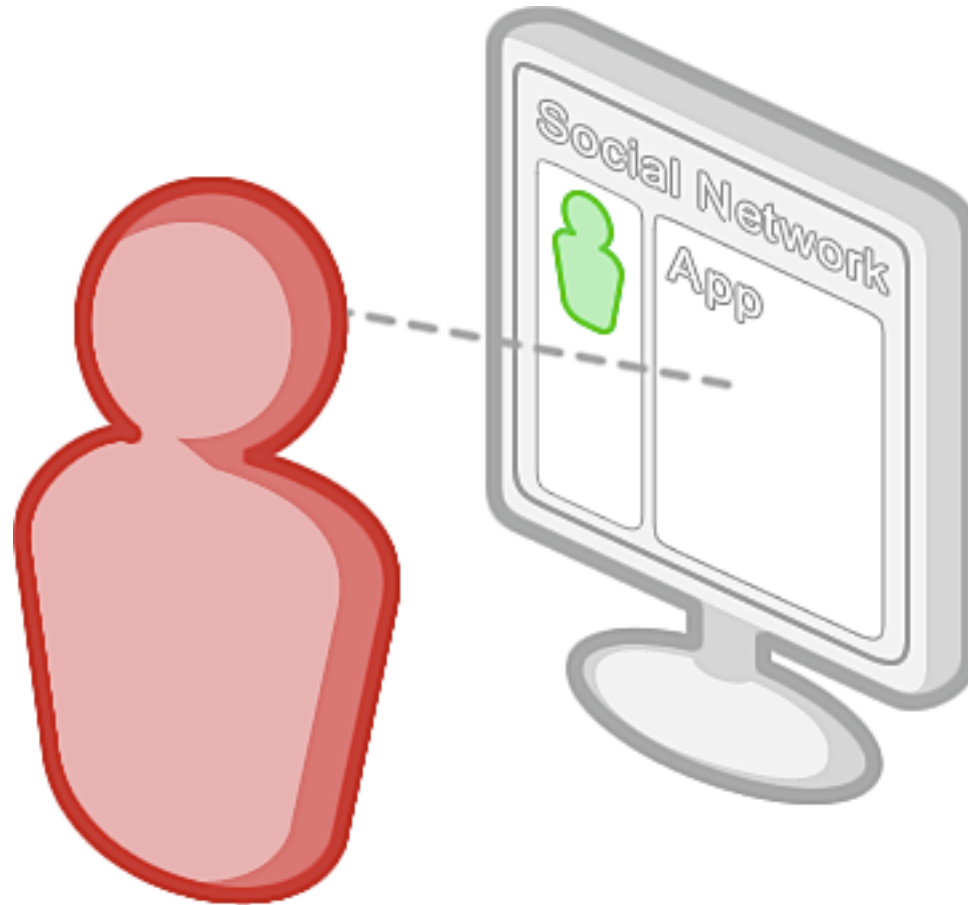




# The OpenSocial JavaScript API

## 用户身份

- 在客户端, 用户对应于 **VIEWER** 或 **OWNER** 之身份

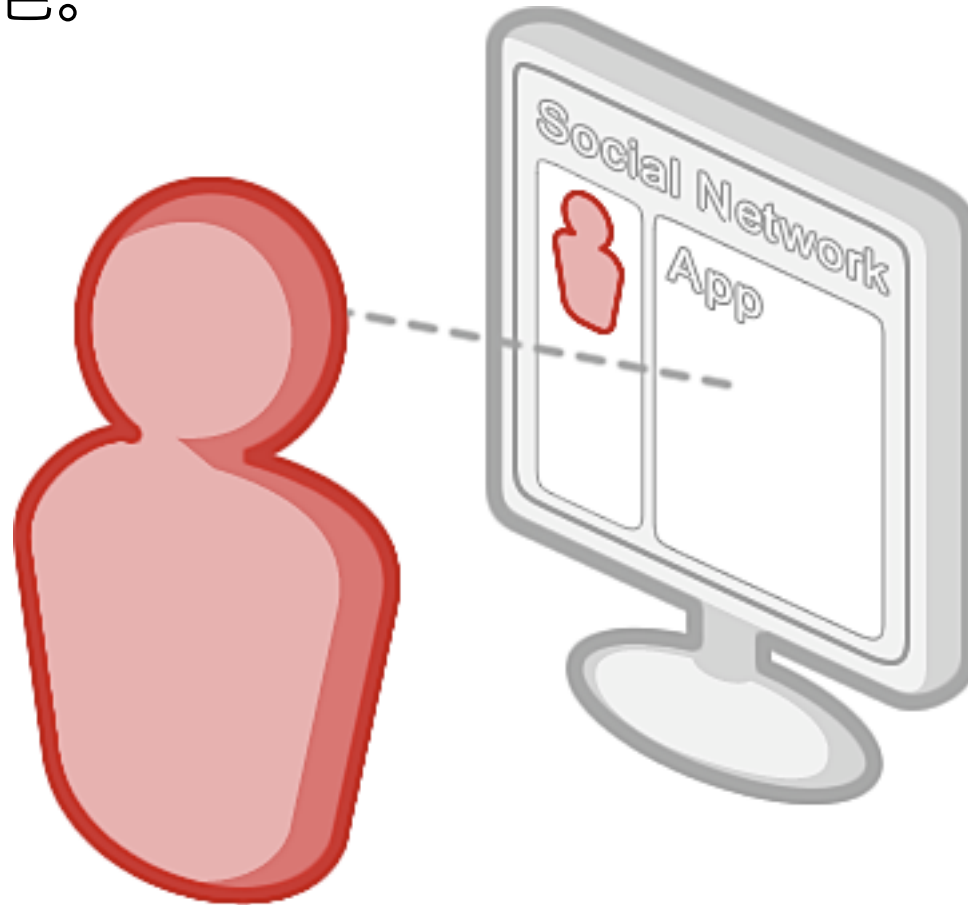




# The OpenSocial JavaScript API

## 多重身份

- 如果您访问自己的用户资料页面, 则您同时担当了 **VIEWER** 和 **OWNER** 的角色。





# The OpenSocial JavaScript API

---

## OpenSocial请求:

- 建立一个 OpenSocial **DataRequest** 数据请求对象
- 大量的 **数据请求被添加** 到 DataRequest 对象中
- DataRequest 对象被 **异步地发送到OpenSocial服务器** 上
- 当请求完成, 在上一步中 **提供的回调函数** 会被调用

```
function request() {
    var req = opensocial.newDataRequest();
    req.add(req.newFetchPersonRequest("OWNER"), "get_owner");
    req.add(req.newFetchPersonRequest("VIEWER"), "get_viewer");
    req.add(req.newFetchActivitiesRequest("VIEWER"), "vactivities");
    req.add(req.newFetchPersonAppDataRequest("OWNER", "*"), "odata");
    ...
    req.send(response);
};

function response(data) { ... };

gadgets.util.registerOnLoadHandler(request);
```



# The OpenSocial JavaScript API

---

## OpenSocial响应:

- 多个响应被捆绑到一起, 并用请求时指定的Key相互区分
- 在 **全局响应的层面上** 检查, 看是否存在错误
- 对于 **每个独立的响应**, 检查是否存在错误
- 使用 **getData()** 来获得相应内包含的数据

```
function response(data) {
  if (data.hadError()) {
    if (data.get("get_owner").hadError()) {
      ...
    }
    if (data.get("get_viewer").hadError()) {
      ...
    }
    ...
  }
  var owner = data.get("get_owner").getData();
  var viewer = data.get("get_viewer").getData();
};
```



# The OpenSocial JavaScript API

---

## 与OpenSocial中的“人”打交道:

- `opensocial.Person` - 表示用户的JavaScript对象





# The OpenSocial JavaScript API

---

请求单个的用户:

```
req.add(req.newFetchPersonRequest(idspec, opt_params), "key");
```

- `idspec` 可以是“VIEWER”，“OWNER” 或者用户ID
- `opt_params` 包含了额外的请求参数, 比如需要获取用户资料中的哪些特定域

对该 `newFetchPersonRequest` 请求的响应:

```
var owner = data.get("key").getData();  
alert(owner.getDisplayName());
```

- 数据包含了一个 **opensocial.Person** 对象
- 该对象可能包含该用户的很多信息, 如家庭住址, 电话号码, 喜爱的电影, 用户头像图片地址, 等等







## The OpenSocial JavaScript API

---

**opensocial.Person** 对象提供的一些方法:

- **getDisplayname()**  
获取该用户的一个文本名字, 这里保证是一个有意义的值
- **getField(key, opt\_params)**  
获取用户对象中, 被键值key对应的数据
- **getId()**  
获取用户的一个永久ID
- **isOwner()**  
当该用户就是当前页面的所有者时, 返回真
- **isViewer()**  
当该用户就是当前登录用户, 即正看页面的浏览者时, 为真





# The OpenSocial JavaScript API

---

## opensocial.Person 对象中包含的一些属性:

- ABOUT\_ME
- ACTIVITIES
- ADDRESSES
- AGE
- BODY\_TYPE
- BOOKS
- CARS
- CHILDREN
- CURRENT\_LOCATION
- DATE\_OF\_BIRTH
- DRINKER
- EMAILS
- ETHNICITY
- FASHION
- FOOD
- GENDER
- HAPPIEST\_WHEN
- HAS\_APP
- HEROES
- HUMOR
- ID
- INTERESTS
- JOB\_INTERESTS
- JOBS
- LANGUAGES\_SPOKEN
- LIVING\_ARRANGEMENT
- LOOKING\_FOR
- MOVIES
- MUSIC
- NAME
- NETWORK\_PRESENCE
- NICKNAME
- PETS
- PHONE\_NUMBERS
- POLITICAL\_VIEWS
- PROFILE\_SONG
- PROFILE\_URL
- PROFILE\_VIDEO
- QUOTES
- RELATIONSHIP\_STATUS
- RELIGION
- ROMANCE
- SCARED\_OF
- SCHOOLS
- SEXUAL\_ORIENTATION
- SMOKER
- SPORTS
- STATUS
- TAGS
- THUMBNAIL\_URL
- TIME\_ZONE
- TURN\_OFFS
- TURN\_ONS
- TV\_SHOWS
- URLS





## The OpenSocial JavaScript API

---

### 与OpenSocial中的“人”打交道:

- 一个 **Collection** 表示了很多 `opensocial.Person` 对象的集合





# The OpenSocial JavaScript API

请求多个用户:

```
var idspec = opensocial.newIdSpec({
  "userId" : "OWNER",
  "groupId" : "FRIENDS"
});
req.add(req.newFetchPeopleRequest(idspec, opt_params), "key");
```

- **idspec** 是一个表征了一个用户组的对象。“userId”可以取值“VIEWER”，“OWNER”或一个ID，“groupId”可以取值“SELF”，“FRIENDS”或一个组名
- **opt\_params** 包含了额外的请求参数，比如需要获取用户资料中的哪些特定域，以及返回用户组内的用户如何排序等等。

对该 **newFetchPersonRequest** 请求的响应:

```
var owner_friends = data.get("key").getData();
owner_friends.each(function (person) {
  alert(person.getDisplayName());
});
```

- 数据包含了 **opensocial.Person** 对象的一个集合。该集合可以使用**each()**方法来遍历。

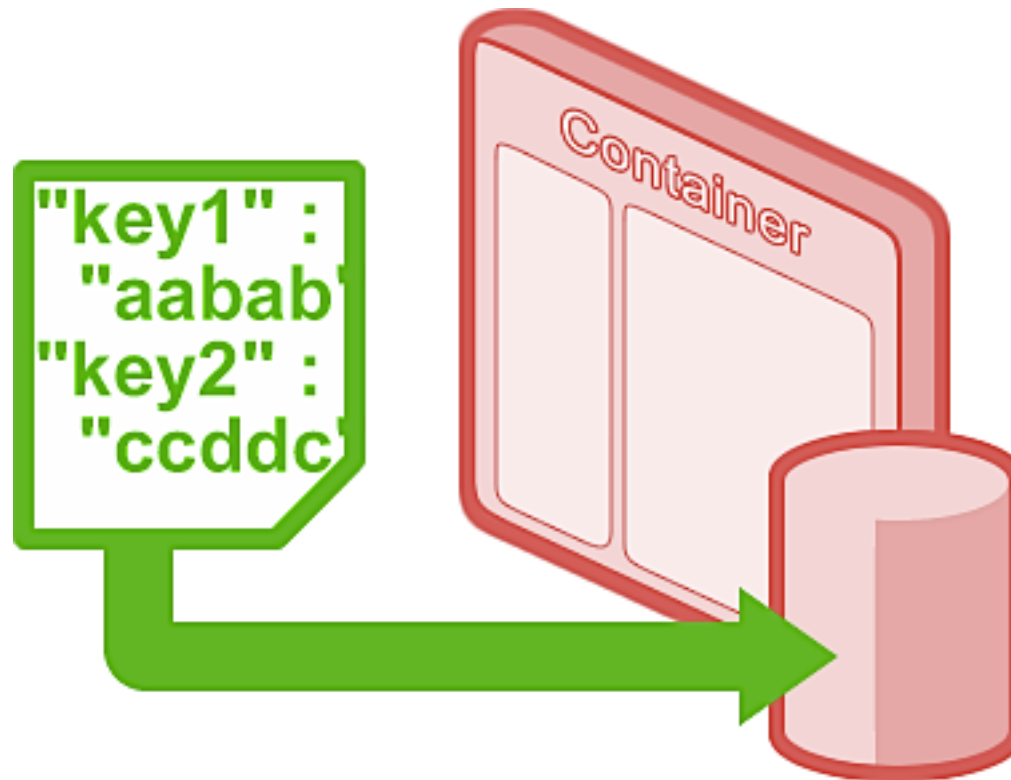




## The OpenSocial JavaScript API

### 与OpenSocial中的“数据”打交道:

- **持久化数据** 直接在SNS网站上提供了基于“键-值”对的存储解决方案
- 存储是基于文本串的, 复杂对象可转为JSON格式并序列化成文本
- 可扩展性: 存储以每用户每应用为单位
- 是存储用户设置和定制信息的好方案



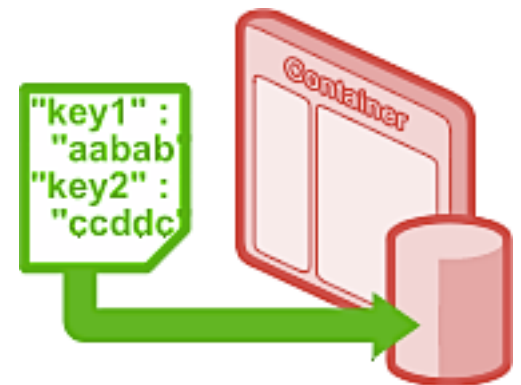


# The OpenSocial JavaScript API

## 在SNS平台上存储持久化数据 (用户应用数据):

```
req.add(req.newUpdatePersonAppDataRequest(idspec, key, value));
```

- **idspec** 基于安全性的考虑, 只能是“VIEWER”
- **key** 是数据存储的唯一标识符
- **value** 是待存数据的字符串表达形式





# The OpenSocial JavaScript API

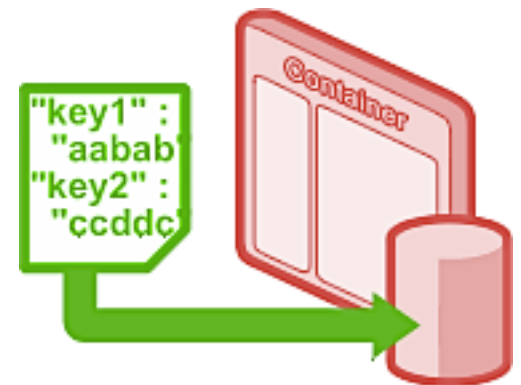
## 读取用户应用数据:

```
var idspec = opensocial.newIdSpec({
  "userId" : "OWNER",
  "groupId" : "SELF"
});
req.add(req.newFetchPersonAppDataRequest(idspec, keys),
  "key");
req.add(req.newFetchPersonRequest("OWNER"), "ownerkey");
```

- **idspec** 表征了一组用户, 和 newFetchPeopleRequest 中的意义一样
- **keys** 是待取数据的键值列表
- 取回的结果是以用户ID为主键排序的, 通过  
请求**OWNER**的数据 来定位结果

## 对该 newFetchPersonAppDataRequest 请求的响应:

```
var app_data = data.get("key").getData();
var value = app_data[owner.getId()][key];
```







# The OpenSocial JavaScript API

## 读取用户应用数据:

- 返回数据首先按照用户ID的顺序排序, 然后再按照应用自己的键值排序。  
即便只有一个用户ID, 结果也是这个结构。

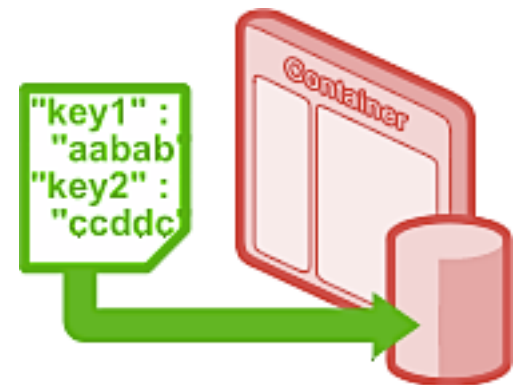
```
{ "1234567890" : { "key1" : "value1" } }
```

- 一个用户, 多个键值:

```
{  
  "1234567890" : {  
    "key1" : "value1",  
    "key2" : "value2"  
  }  
}
```

- 多个用户:

```
{  
  "1234567890" : { "key1" : "value1" },  
  "2345678901" : { "key1" : "value2" }  
}
```





# The OpenSocial JavaScript API

## 与OpenSocial中的“用户新鲜事”打交道:

- 提供API, 从而显示出用户在该应用上的活动轨迹
- 很多网站都已支持图片和用HTML标记的内容
- 这是广大应用成长的良好渠道

The image shows three overlapping social media interface elements:

- Orkut:** A sidebar on the left with a grid of photos. A black box with the text "orkut" is overlaid on the photos.
- MySpace:** A central "Friend Updates" window showing a list of updates from October 8th, 3rd, 2nd, 1st, and September 27th. A black box with the text "MySpace" is overlaid on the update from Oct 03.
- hi5:** A "NETWORK UPDATES" window on the right showing updates from "Today" and "Yesterday". A black box with the text "hi5" is overlaid on the update from "Today".



# The OpenSocial JavaScript API

---

## 创建用户新鲜事:

```
function postActivity(text) {  
    var params = {};  
    params[opensocial.Activity.Field.TITLE] = text;  
    var activity = opensocial.newActivity(params);  
    opensocial.requestCreateActivity(activity,  
        opensocial.CreateActivityPriority.HIGH, callback);  
};
```

- 将文字赋值给 TITLE 域
- 调用 `opensocial.newActivity()` 来新建一个 `opensocial.Activity` 对象
- 调用 `opensocial.requestCreateActivity()` 来将刚刚新建的 Activity 对象发表到SNS容器上

# RESTful 和 RPC 服务器端接口协议

互联网有浏览器, 但不是只有浏览器...

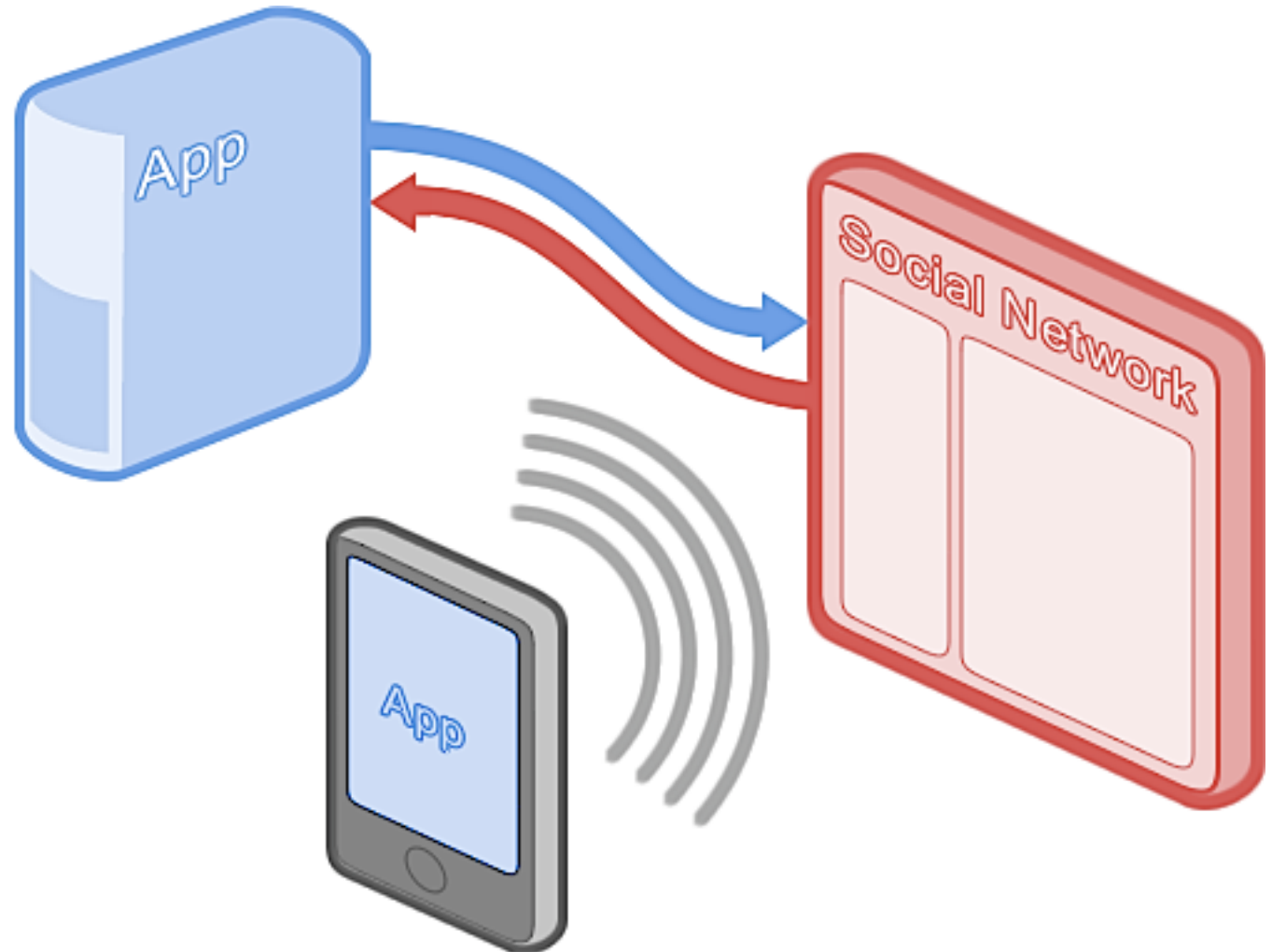
OpenSocial



## RESTful 和 RPC 协议

引入了一种新的开发模式:

- 数据在后台处理
- 支持手持设备上的应用开发
- 更容易支持Flash





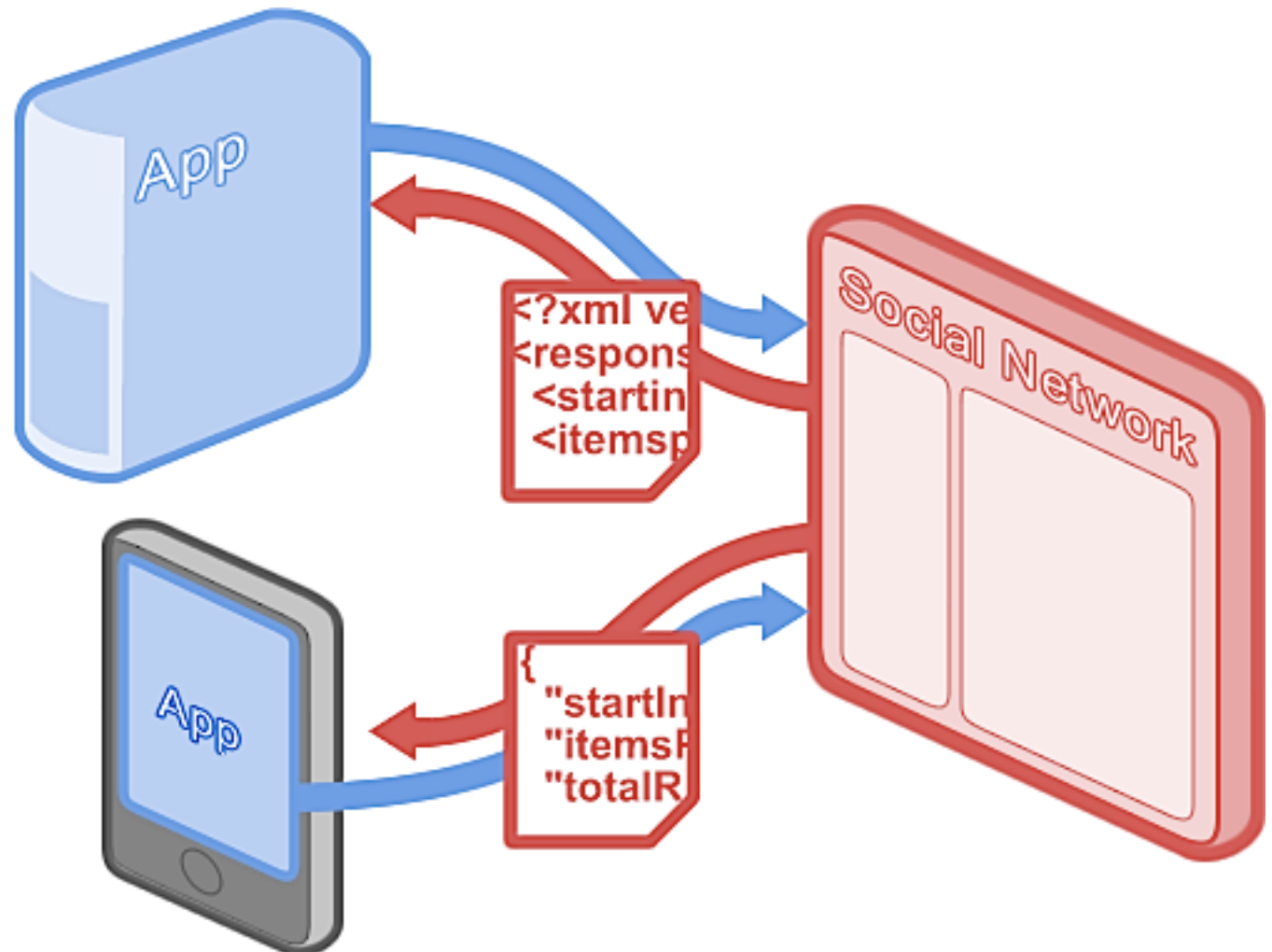
# RESTful 和 RPC 协议

## 通信方式:

- RESTful (Representational State Transfer)
- RPC (Remote Procedure Call)

## 数据格式:

- XML
- JSON
- AtomPub





# RESTful 和 RPC 协议

---

## REST:

- Resources are URLs.

## Example - People:

- All people connected to the given user:

```
/people/{guid}/@all
```

- All friends of the given user:

```
/people/{guid}/@friends
```

- Profile of the given user:

```
/people/{guid}/@self
```

- Profile of the authenticated user:

```
/people/@me/@self
```

- Supported Person fields:

```
/people/@supportedFields
```





# RESTful 和 RPC 协议

---

## QueryString parameters customize requests:

- Response format (JSON, XML, AtomPub)

```
format={format}
```

- Request extra fields

```
fields={-join|,|field}.
```

- Filtering:

```
filterBy={fieldname}  
filterOp={operation}  
filterValue={value}  
updatedSince={xsdDateTime}  
networkDistance={networkDistance}
```

- Paging:

```
count={count}  
sortBy={fieldname}  
sortOrder={order}  
startIndex={startIndex}
```



# RESTful 和 RPC 协议

---

## REST responses (Person):

- JSON:

```
{  
  "id" : "example.org:34KJDCSKJN2HHF0DW20394",  
  "displayName" : "Janey",  
  "name" : {"unstructured" : "Jane Doe"},  
  "gender" : "female"  
}
```

- XML:

```
<person xmlns="http://ns.opensocial.org/2008/opensocial">  
  <id></id>  
  <displayName></displayName>  
  <name>  
    <unstructured>Jane Doe</unstructured>  
  </name>  
  <gender>female</gender>  
</person>
```



# RESTful 和 RPC 协议

---

## REST responses (Person):

- AtomPub:

```
<entry xmlns="http://www.w3.org/2005/Atom">
  <content type="application/xml">
    <person xmlns="http://ns.opensocial.org/2008/opensocial">
      <name>
        <unstructured>Jane Doe</unstructured>
      </name>
      <gender>female</gender>
    </person>
  </content>
  <title/>
  <updated>2003-12-13T18:30:02Z</updated>
  <author/>
  <id>urn:guid:example.org:34KJDCSKJN2HHF0DW20394</id>
</entry>
```



# RESTful 和 RPC 协议

---

## REST:

- Perform operations using different HTTP methods on each URL.

## CRUD:

- **C**reate
- **R**etrieve
- **U**ppdate
- **D**elete

## HTTP:

- **POST**
- **GET**
- **PUT**
- **DELETE**



## RESTful 和 RPC 协议

---

### REST has some disadvantages:

- Batch support requires multiple HTTP requests, or a contrived URL scheme.
- Specifying multiple users via querystring is difficult. Is `?uid=1234,5678` the same resource as `?uid=5678,1234` ?



# RESTful 和 RPC 协议

---

## RPC:

- One endpoint - parameters specify methods to call.
- Batch support.
- Specify collections of users through passed arguments, not URLs.

## Example - Fetch current user:

### • Request

```
POST /rpc HTTP/1.1
Host: api.example.org
Authorization: <Auth token>
Content-Type: application/json
{
  "method" : "people.get",
  "id" : "myself"
  "params" : {
    "userid" : "@me",
    "groupid" : "@self"
  }
}
```

### • Response

```
HTTP/1.x 207 Multi-Status
Content-Type: application/json
{
  "id" : "myself"
  "result" : {
    "id" : "example.org:34KJDCSKJN2HHF0DW20394",
    "name" : { "unstructured" : "Jane Doe"},
    "gender" : "female"
  }
}
```



# RESTful 和 RPC 协议

---

## Authentication:

- Both protocols use OAuth to identify users and apps.
- Depending on what the application needs to do, it can use two-legged or three-legged OAuth.

## Two-legged OAuth:

- The **application** authenticates directly with the **container**.
- Perform non-user specific operations:
  - Update persistent data for app users.
  - Can request information for users who have shared their profile information with the app.

## Three-legged OAuth:

- The **user** tells the **container** to give profile access to the **application**.
- Perform user specific operations:
  - Post activities.
  - Fetch friends of the current user.





## RESTful 和 RPC 协议

**Client libraries are being created for PHP, Java, and Python.**

- Help you connect to OpenSocial containers, and work with social data on your server.

**Sample: log into a container:**

```
Dictionary config = {
    "ID" : "example.com"
    "ContainerXRDS" : "http://example.com/XRDS",
    "OAuthSigningMethod" : "HMAC-SHA1",
    "SharedSecret" : "ccajkw3adf39fa9cadsfnj30"
};

//Cache stores XRDS, tokens and possibly responses for certain requests
Cache cache = new MemoryCache();

//Library abstracts making HTTP requests to the server
OpenSocialHttpLib httpLib = new OpenSocialHttpLib();

//Obtain a container context
ContainerContext container_context =
    new OpenSocialClient(config, httpLib, cache);
```



## RESTful 和 RPC 协议

### RESTful and RPC use OAuth for authentication

- OAuth is an open standard.
- Client libraries will help make this process easier for developers.

### Sample: use OAuth to get an access token for a user:

```
Dictionary user_config = {
    "ID" : "0120401203943020192",
    "token" : null
};

UserContext user_context =
    container_context.getUserContext(user_config);

if (!user_context.isAuthenticated()) {
    URI auth_url = user_context.getAuthUrl();
    String oauth_request_token = null;

    /**
     * Code to redirect user to auth_url and obtain a
     * token back as oauth_request_token
     */

    user_context.exchangeRequestToken(oauth_request_token);
}
```



## RESTful 和 RPC 协议

---

- Once OAuth is used, you can store a user token for later access.

### Sample: use an existing token:

```
String oauth_access_token = null;

/**
 * Code to retrieve oauth_access_token, user_id, and container_id from
 * persistent storage, then identify the container and create the
 * appropriate container context.
 **/

Dictionary user_config = {
    "ID" : "0120401203943020192",
    "token" : oauth_access_token
};

UserContext user_context =
    container_context.getUserContext(user_config);
```



## RESTful 和 RPC 协议

---

- Once authentication has happened, requests are easy:

### Sample: Fetch the current user:

```
Dictionary params = {
    "guid" : "@me",
    "selector" : "@self"
};

try {
    Person me = container_context.fetchPerson(user_context, params);
} catch (OpenSocialRequestException ex) {
    /** Handle any errors that happened in the request **/
}
```



# RESTful 和 RPC 协议

---

## Sample: Fetch the current user's friends:

```
Dictionary params = {
    "max" : "100",
    "start" : "10",
    "guid" : "@me",
    "selector" : "@friends"
};

try {
    Collection<Person> my_friends =
        container_context.fetchPeople(user_context, params);
} catch (OpenSocialRequestException ex) {
    /** Handle any errors that happened in the request **/
}
```

## OpenSocial 相关工具

---

“人猿相揖别，只几个、石头磨过，小儿时节。”

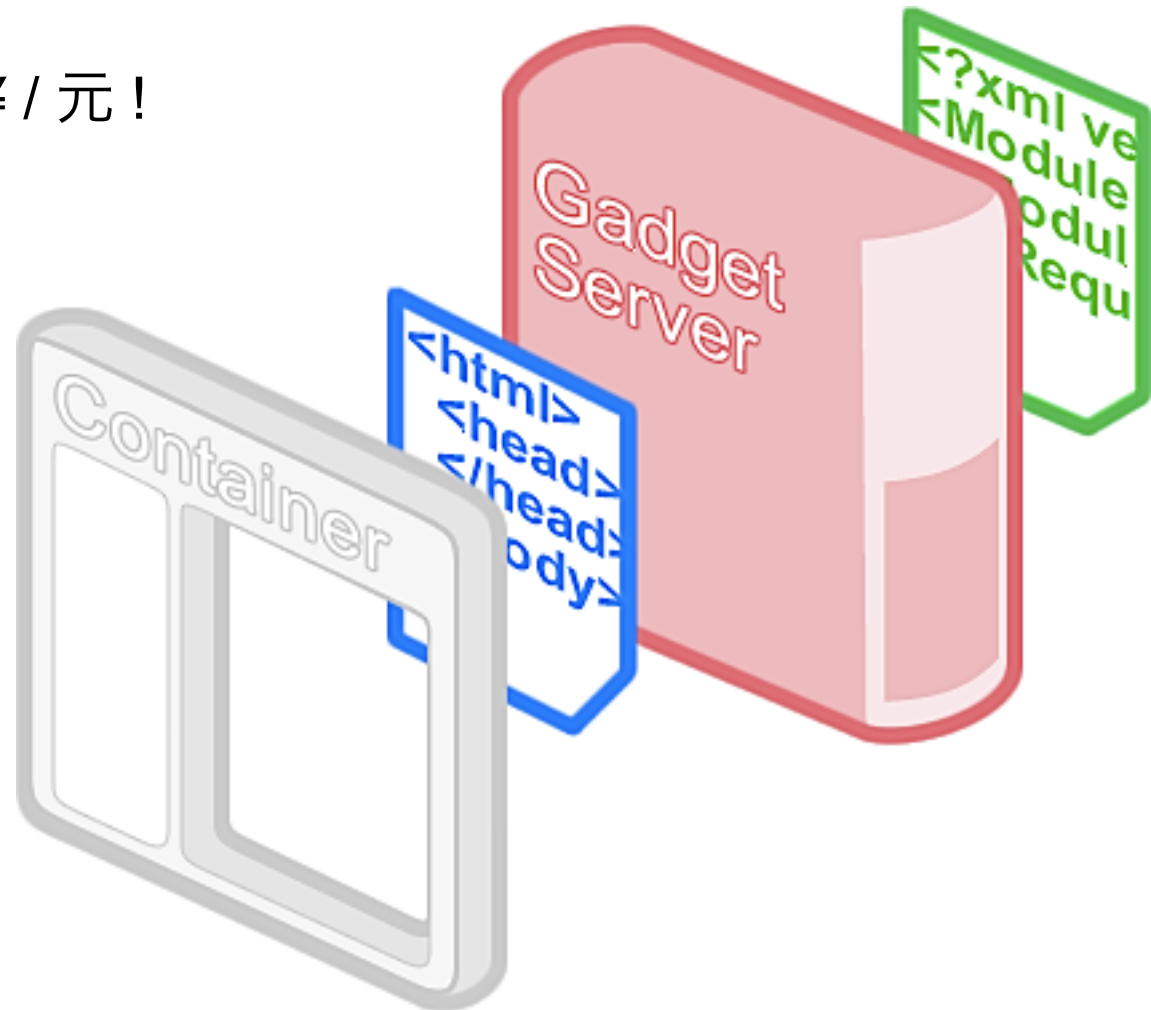
OpenSocial



# Shindig

自己写一个应用渲染服务器是很困难的:

- API在不断演进, 需要反映最新的成果
- 完全符合标准很困难
- 需要人力 / 物力开销 ¥ / 元!





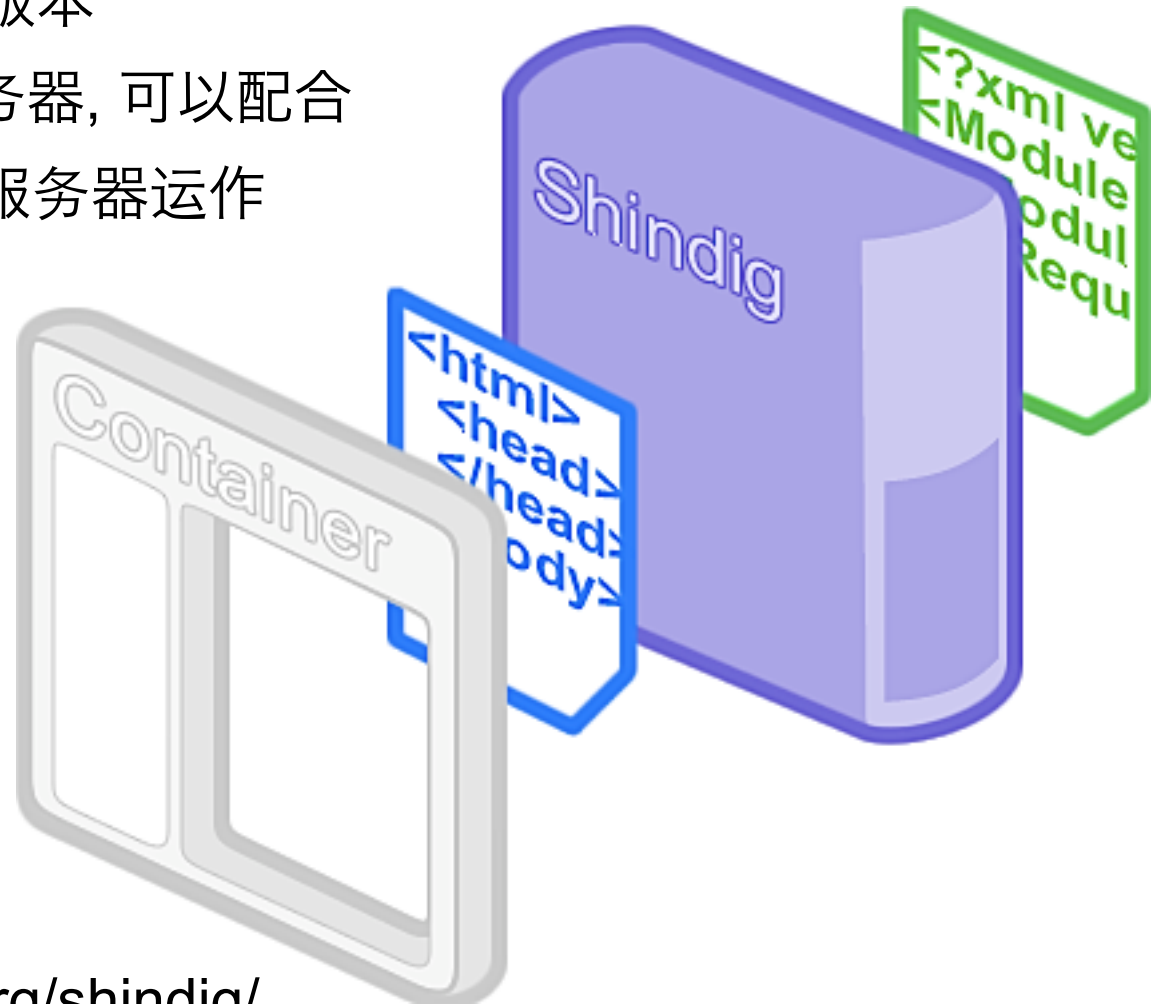


# Shindig

因此，有了Apache Shindig项目：

- 开放源代码的项目
- 有Java和PHP的实现版本
- 是一个独立运行的服务器，可以配合现在SNS已有的Web服务器运作

目标：通过一小时的工作，  
就可以从无到有地发布一个  
相对简单，但却功能齐备  
的OpenSocial平台



<http://incubator.apache.org/shindig/>



# OpenSocial Dev App

开发工具, 用来检测不同SNS容器上的JavaScript代码表现

## OpenSocial Dev App (development)



Home > Arne Roomann-Kurrik > OpenSocial Dev App (development)

The screenshot shows the OpenSocial Dev App interface. At the top, there are tabs for Code, News, Samples, Data Viewer, Export XML, and Help. Below the tabs is a toolbar with a dropdown menu showing 'test', buttons for 'Load' and 'Save code as', and an 'Execute' button. To the right of the toolbar are 'Larger' and 'Smaller' buttons. The main area is a code editor with the following JavaScript code:

```
/**
 * DEFAULT SAMPLE CODE (0.8)
 * Fetches the OWNER and their friends.
 */
function response(data) {
  cls();
  output(data.get("req").getData().getDisplayname() + "'s Friends:");
  output("=====");
  data.get("req_friends").getData().each(function(person) {
    output(person.displayName);
  });
  gadgets.window.adjustHeight();
}
```

Below the code editor, there is a DOM handle: `<div id="dom_handle">This div has an id of dom_handle that you can use to insert DOM elements into</div>`. At the bottom, it says "OpenSocial Dev App [0.8] [track]".

<http://osda.appspot.com>

# 即将面世的功能

---

Caja 和模板系统

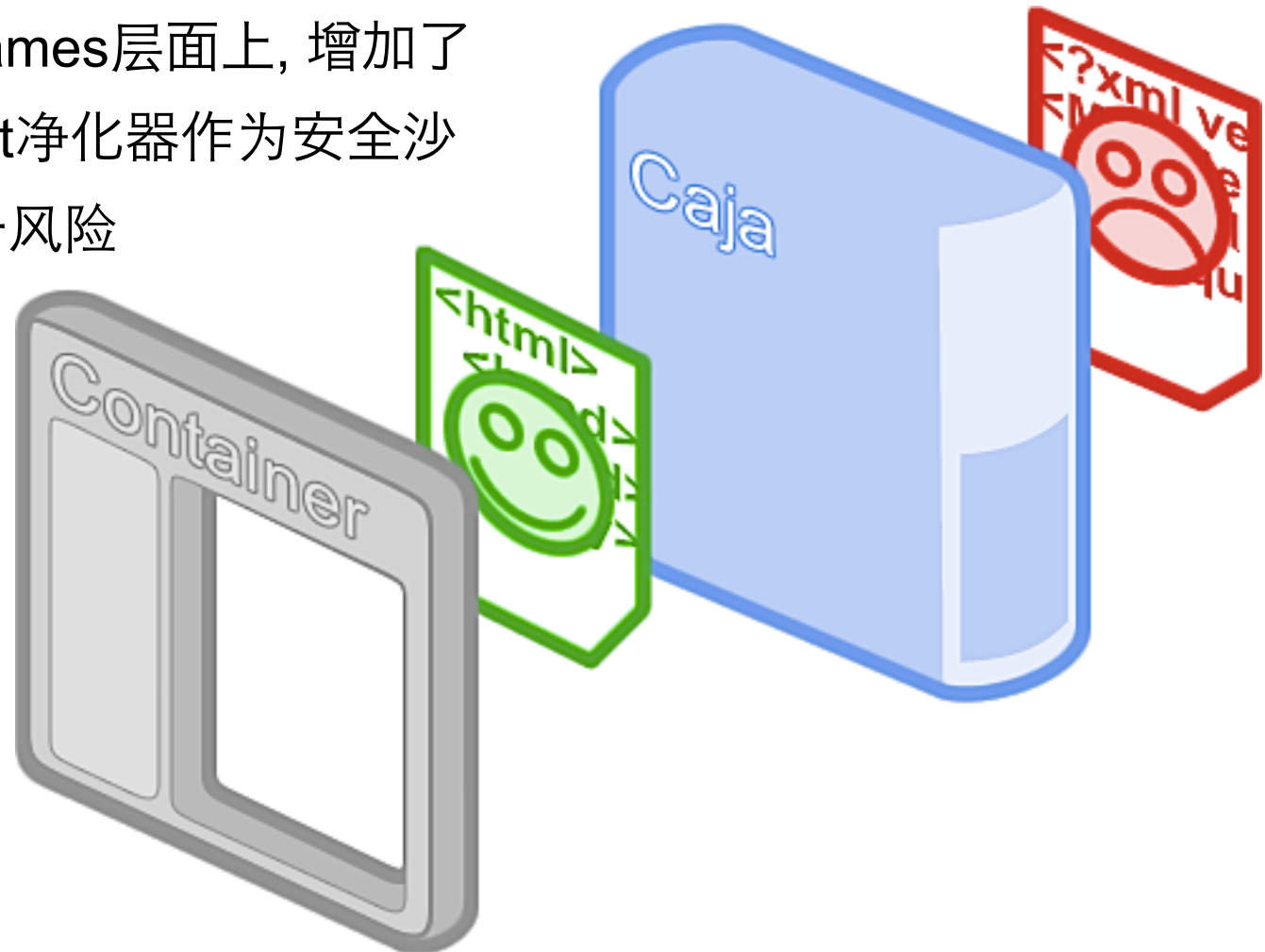
OpenSocial



# Caja

## 当JavaScript被用来做坏事...

- 小应用可被用作钓鱼欺骗, 传播垃圾邮件和运行恶意软件的又一途径
- 而小应用的病毒传播特质则加剧了这一风险
- **Caja**通过在iframes层面上, 增加了一层JavaScript净化器作为安全沙箱, 来减少这一风险



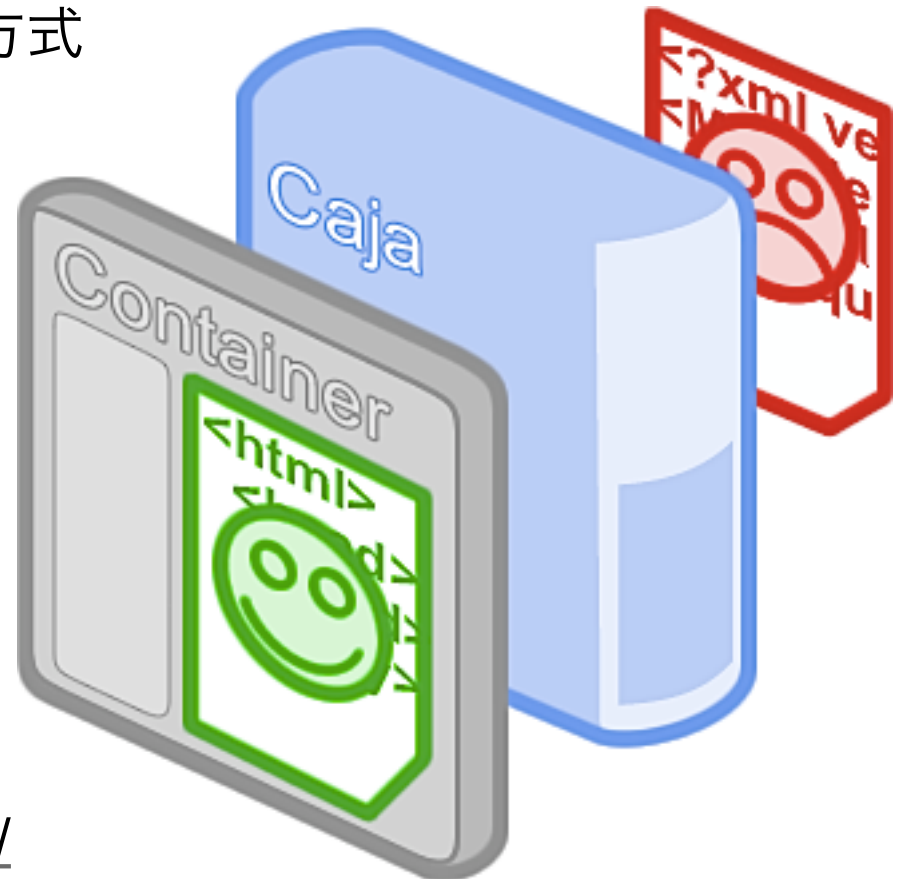


# Caja

---

## Caja 是:

- 它是基于权限管理的JavaScript净化器, 由Google贡献为一个开源项目
- 对于OpenSocial容器来说, 它虽不是必须的, 但是还是推荐使用
- 最终它将足够安全, 使小应用可以被inline方式直接嵌入到页面中, 而不是用现在的iframe方式



<http://code.google.com/p/google-caja/>

---



## 模板系统

---

### 我们需要一种模板语言:

- 开发人员需要一种简单的方式将OpenSocial数据转化为HTML
- DOM操作既不优雅, 又很缓慢
- innerHTML是不安全的

### OpenSocial模板的优势:

- 使开发变得容易: 使用标签进行简易的原型开发, 常常只需要拷贝-粘贴 HTML, 再做简单的修改
- 更安全: 减弱了XSS (跨站脚本攻击)的威胁, 除非开发者主动地绕过针对XSS的保护措施
- 载入/执行迅速: 支持服务器端优化
- 通过JavaScript, 还可支持客户端的OpenSocial模板渲染
- 扩展性强: 标签既可绑定于OpenSocial API传回的数据, 也可以绑定于由开发者指定的数据源; 支持分支条件判断和Repeated数据类型



# 模板系统

```
<script type="text/javascript"
  src="http://ostemplates-demo.appspot.com/ostemplates.js">
</script>
```

```
<script type="text/os-template">
  <b>${owner.displayName}'s friends</b>
  <ul>
    <li repeat="friends">${displayName}</li>
  </ul>
</script>
```

```
<script type="text/javascript">
  function loadData() {
    var req = opensocial.newDataRequest();
    req.add(req.newFetchPersonRequest('OWNER'), 'owner');
    var idSpecFriends = opensocial.newIdSpec(
      {'userId': 'OWNER', 'groupId': 'FRIENDS'});
    req.add(req.newFetchPeopleRequest(idSpecFriends), 'friends');
    req.send(function(data) {
      os.Container.processDocument(data);
    });
  }
  gadgets.util.registerOnLoadHandler(loadData);
</script>
```

<http://ostemplates-demo.appspot.com/>



# 模板系统

## 模板开发者工具在网上可以访问:

**OpenSocial Templates Developer App** Gadget: <http://ostemplates-devapp.appspot.com/gadget.xml>  
Install in [Orkut](#)

**Samples**

- Basic
  - Hello World
  - Hello Data
  - Conditionals
  - Loops
  - Nested Loops
  - Custom Tag
  - Custom Namespace
  - My Button
  - Manual Rendering
- Advanced
  - Joining Data
  - JavaScript Tag
  - Setting Context
- OSML Draft
  - os:Layout
- OSML
  - os:RenderAll
  - os:Html
- Apps
  - Friends List

**My Apps**

App storage currently only implemented in gadget version.

**Options**

Fetch OS Data (Sample data)

**Output** Generate

**Markup** JavaScript Styles [Reset All](#)

```
<script type="text/os-template">
  <!-- Your markup here -->
</script>
```

<http://ostemplates-devapp.appspot.com/>







# 基于已发布的0.7版标准

The screenshot shows a Mozilla Firefox browser window with the following details:

- Title Bar:** OpenSocial API Specification (v0.7) - OpenSocial - Google Code - Mozilla Firefox
- Address Bar:** <http://code.google.com/apis/opensocial/docs/0.7/spec.html>
- Search Bar:** Google search bar with the text "e.g. 'ajax apis' or 'open source'" and a "Search" button.
- Navigation:** English | Site Directory
- Page Header:** OpenSocial navigation menu with links: Home, Docs, FAQ, Articles, Blog, Group, Terms.
- Left Sidebar:**
  - Who's Using It?
  - Example Applications
  - Building Social Apps
  - Hosting OpenSocial Apps
  - JavaScript API
    - Developer's Guide (v0.7)
    - Release Notes (v0.7)
    - API Specification (v0.7) (highlighted)
    - API Reference (v0.7)
    - Previous Versions
  - RESTful Data APIs
    - Overview
  - Other Resources
    - Build apps for Orkut
    - Gadgets Specification
- Main Content Area:**
  - Breadcrumbs: Docs > API Specification (v0.7)
  - Section Title: OpenSocial API Specification (v0.7)
  - Section Title: Contents
  - Table of Contents:
    - Overview
    - Compliance
    - Background
      - Key Concepts
      - People
      - Relationships
      - Activities
      - Persistence
      - Views
    - API Patterns
      - Making requests
      - Capabilities discovery
      - Action Requests and Permissions



# 发起提议, 对标准进行改动

spec process proposal and tracking list for 0.8 (warning: this is long) - OpenSocial and Gadgets Specification Discussion | Google Gr...

File Edit View History Bookmarks Tools Help

http://groups.google.com/group/opensocial-and-gadgets-spec/browse\_threa

## OpenSocial and Gadgets Specification Discussion

spec process proposal and tracking list for 0.8 (warning: this is long) Options

9 messages - Collapse all

Cassie View profile More options Apr 10, 3:31 am

Hey everyone -

So a bunch of new gadgets and opensocial issues have been proposed on this list and it seems like we need a way to decide on which changes will make it into the next iteration of the spec. (See list of current issues at bottom of email - ie read the whole thing :)

First, it seems like we need to set a deadline for proposing new issues to make it into 0.8 - perhaps something like next Friday? (April 18)

Second, we then need to come up with corresponding spec changes for each issue that has been proposed. I've been doing this on a bunch of threads and will continue to speak up if others don't.

Third, we then need to decide when issues make it or do not make it into the spec itself. It would be great if we could shoot for a consensus agreement on each change, perhaps having some minimum number of people which have to chime in? (Let's call it n people) So, in order for a change to make it into the next iteration, it will need n

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Solve your business security issues by encrypting emails. Learn how.  
[www.google.com/a/security](http://www.google.com/a/security)

Project Mgmt Templates  
Get Tips & Tools For a Successful PM Office. Get More Information Now  
[www.Daptiv.com](http://www.Daptiv.com)

OpenPGP FileCrypt SDK  
ANI Direct licenses the FileCrypt OpenPGP Software Developers Kit.

Done



# 跟踪改动并审核

Google Docs - opencocial 0.8 and gadgets proposals - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://spreadsheets.google.com/pub?key=pigtmOB55Aw\_YJHz040u0Kg&gid: [RSS] [Star] [Google]

all approved changes RESTful details

Status	Last Updated	Proposal Id	Code Change
This is only a structured local copy of the mailing list. It just summarizes everything that has taken place there. See <a href="http://groups.google.com/group/opencocial-and-gadgets-spec">http://groups.google.com/group/opencocial-and-gadgets-spec</a> for more info.			
<b>OpenSocial related things...</b>			
Spec agreed upon; 7 + votes, 0 - votes	4/28/2008	RESTFUL-001	<a href="http://docs.google.com/View?docid=dc43mmng_2g6k9qzfb">http://docs.google.com/View?docid=dc43mmng_2g6k9qzfb</a>
A zillion votes	4/20/2008	PERSON-001	<pre>opencocial.Person.Field = { ... /**  * A boolean indicating whether the person has used the cur  * @member opencocial.Person.Field  */ HAS_APP : 'hasApp', ... }  opencocial.DataRequest.FilterType = { ... /**  * Retrieves all friends that use this application.  *  * Note: Containers may define "use" in any manner they de</pre>

Done



# 完成草案, 并做最后的复查

Ready for review: Complete drafts of OpenSocial v0.8 and related spec updates - OpenSocial and Gadgets Specification Discussion ...

File Edit View History Bookmarks Tools Help

http://groups.google.com/group/opensocial-and-gadgets-spec/browse\_threa

## OpenSocial and Gadgets Specification Discussion

Ready for review: Complete drafts of OpenSocial v0.8 and related spec updates [Options](#)

2 messages - [Collapse all](#)

**Dan Peterson** [View profile](#) ★★★★★ (1 user) [More options](#) May 9, 6:27 pm

Hi folks,

As discussed last week, the full draft of OpenSocial v0.8 specification is ready for your review. This draft specification includes updates to existing specs, inclusion of the RESTful spec, release notes, and detailed JavaScript doc (JSDoc). The intent was to clearly capture all of the 40+ changes/additions that we have developed on this mailing list since version 0.7 of the spec (as tracked in [http://spreadsheets.google.com/pub?key=piqtmOB55Aw\\_YJHz040u0Kq&qid=0](http://spreadsheets.google.com/pub?key=piqtmOB55Aw_YJHz040u0Kq&qid=0) ). Let's use the next week or two to make improvements to these docs and then we can lock down 0.8.

You can find all 6 of these documents uploaded into the "Files" section of this Google Group:  
<http://groups.google.com/group/opensocial-and-gadgets-spec/files?&sort...>

The draft documents published are (please note that some of the links in the files might not work as this is only a staged copy):

**Home**

**Discussions**  
[+ new post](#)

**Members**

**Pages**

**Files**

[About this group](#)  
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**Sponsored Links**

[F250 Spec](#)  
Find all the specifications you could want on the 2008 Ford F-250.  
[fordvehicles.com](http://fordvehicles.com)

[Torque Specifications](#)  
Web's Most Comprehensive Database  
Search by Motor, Model, or Part  
[www.TorkSpec.com](http://www.TorkSpec.com)

[Car Specs & Photos](#)  
Research Car Video Reviews, Specs & Car Features at Kelley Blue Book.

Done



# 产生新的0.8版标准

OpenSocial Specification -- Implementation Version 0.8 (OpenSocial) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://sites.google.com/a/opensocial.org/opensocial/Technical-Resources/opensoc

OpenSocial

Search Site

Navigation

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- [Foundation Proposal](#)
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Technical Resources >

## OpenSocial Specification -- Implementation Version 0.8

### Contents

- [Overview](#)
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    - [Activities](#)
    - [Persistence](#)
    - [RESTful API](#)
  - [API Patterns](#)
    - [Making requests](#)
    - [Capabilities discovery](#)
    - [Action Requests and Permissions](#)
    - [Profile Fields](#)
    - [Fetching content from remote sources](#)

# 面对的挑战

---

Nobody said this was going to be easy

OpenSocial



## 面对的挑战

---

### 跨容器的应用开发仍然是一项困难的工作:

- 容器有可能与标准尚不完全兼容
- 对于相同的操作, 各容器间可能有不同的访问权限策略
- 最佳实践例子:

<http://tinyurl.com/4nuzll>





## 面对的挑战

---

### 缺乏集中式的应用目录:

- 对应用而言, 快速扩散到各个容器平台上是个问题
- 应用需要分别处理不同的安装流程
- 各容器平台间, 进入应用目录的审批条件 / 需求各有不同



## 面对的挑战

---

### 困难的可扩展性:

- 刚开始, 很容易吸引一些用户来开始使用





## 面对的挑战

---

### 困难的可扩展性:

- 在一个社交网站上的流行, 会将你服务器的性能榨干到极限...

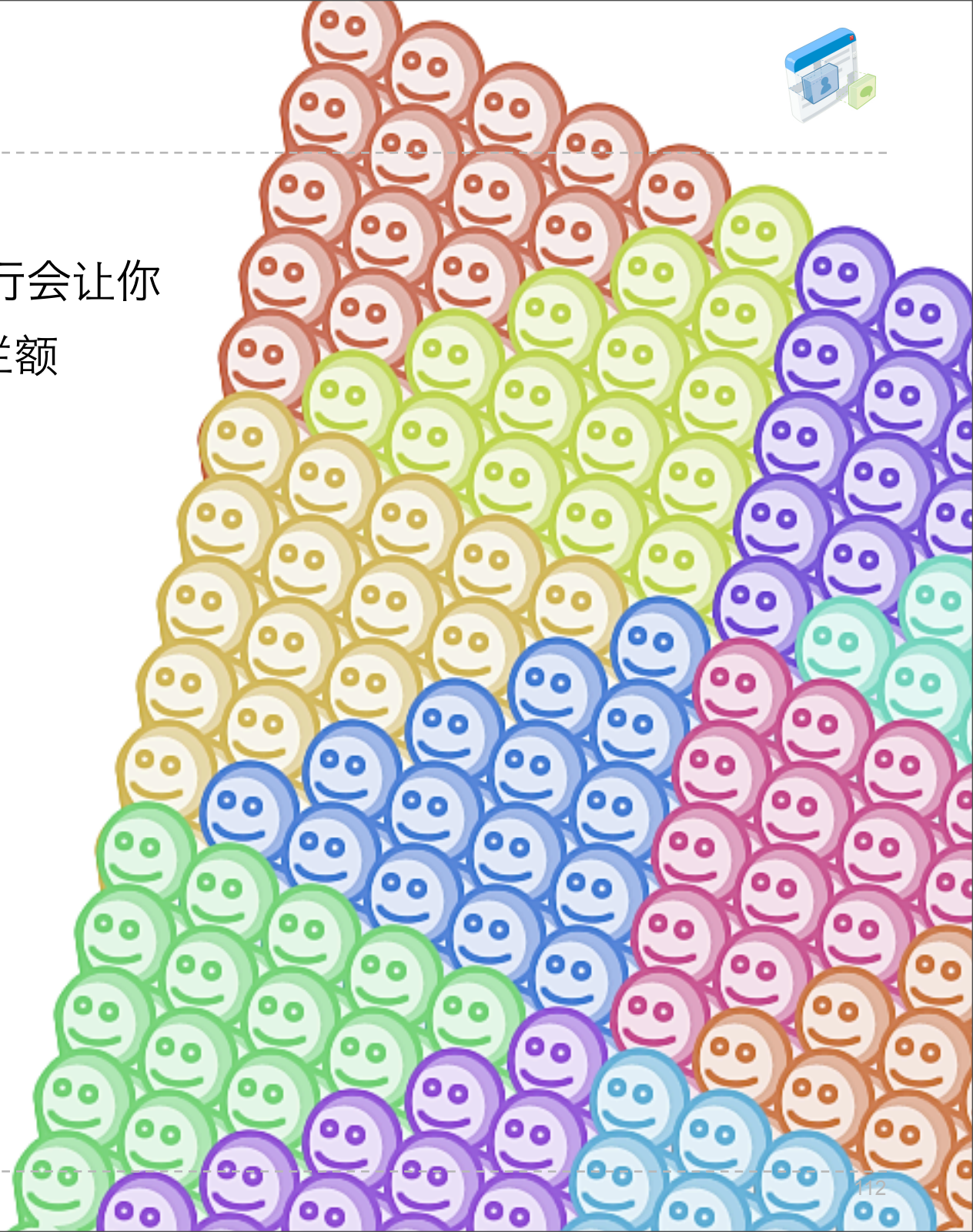


## 面临的挑战



### 困难的可扩展性:

- ...在好几个社交网站上流行会让你  
的服务器疲于招架, 焦头烂额



## 相关资源

---

OpenSocial



## 相关资源

---

- **OpenSocial 入门:** <http://rurl.org/ss3>
- **OpenSocial 标准, 基金会, 及参考:** <http://opensocial.org>
- **Caja:** <http://code.google.com/p/google-caja/>
- **Shindig:** <http://incubator.apache.org/shindig/>
- **OpenSocial Across Containers video:** <http://tinyurl.com/4nuzll>
- **OpenSocial 模板:** <http://ostemplates-demo.appspot.com/>
- **OpenSocial Dev App:** <http://osda.appspot.com>
- **Partuza:** <http://partuza.nl>
- **OpenSocial 标准提案:**  
<http://groups.google.com/group/opensocial-and-gadgets-spec/topics>