

Hacking the Social Graph

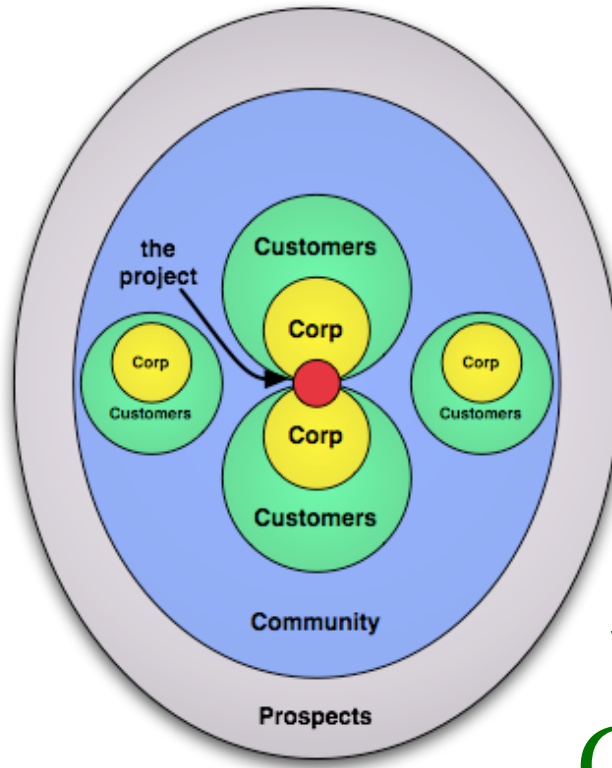
(This talk has: lots of ideas,
many starting points,
quite a few opinions,
not much code.)

- Brian McCallister

The 'Please Touch' Internet^{BETA}



Collaboration
Content
Community



~~User Generated Content~~



Web Mediated
Communication

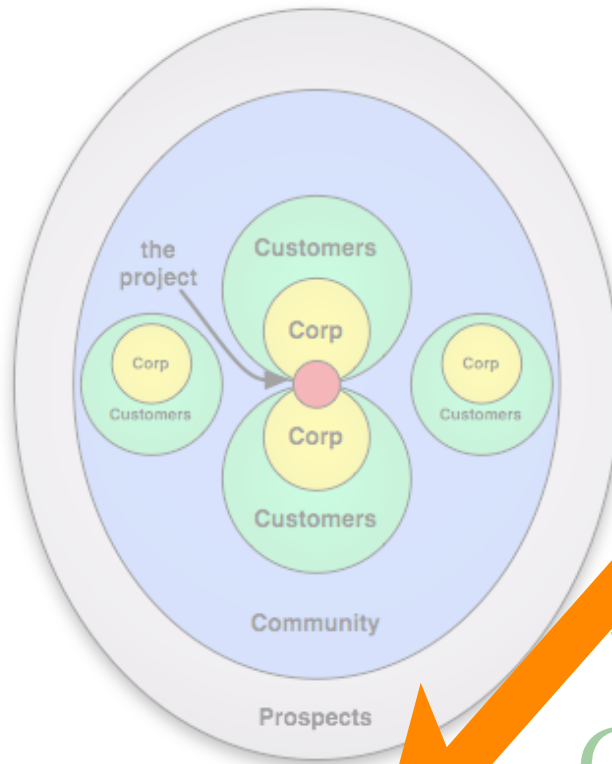
Community and Connections First

The 'Please Touch' Internet^{BETA}



~~User Generated Content~~

Collaboration
Content
Community



Web Mediated
Communication

Community and Connections First

Friends & Relationships

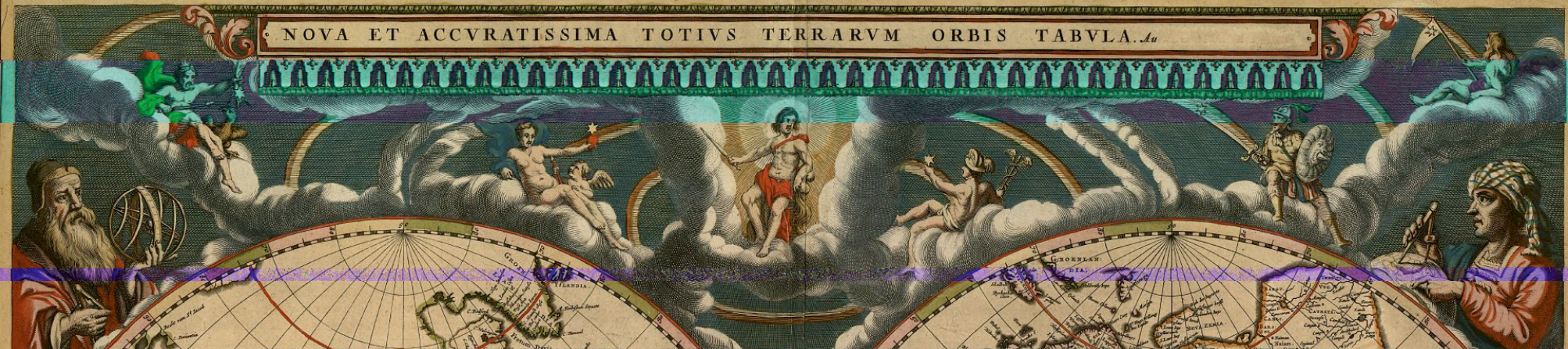
Application Platforms

Activity Streams

Glue



NOVA ET ACCVRATISSIMA TOTIVS TERRARVM ORBIS TABVLA. Au



▼ Enter Email Addresses

Send To

fred@example.com

Separate multiple addresses with commas

Your Message (Optional)

Come join me!

Send Invitations



tips on getting m

Posted by Syd Woodward on Mar 11, 2011

✉ Send Message + Add as friend



Sign in with your LinkedIn Information

Your email:

Password:



☐ I don't use any of these

Next...



DataPortability



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```
<link rel="me"
      href="http://twitter.com/brianm" />
<link rel="me"
      href="http://www.linkedin.com/in/brianmccallister"/>
```

```
-----
<ul>
  <li>
    <a href="http://vafer.org/blog/" rel="friend">
      Torsten
    </a>
  </li>
  <li>
    <a href="http://crazybob.org/" rel="acquaintance">
      Bob
    </a>
  </li>
</ul>
```



There is a lot of data.

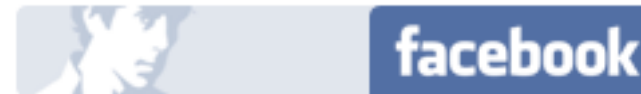
There is a lot of data.
It changes, rapidly.



hi5

Linked in®

ebO



Ning

orkut

myspace.com®
a place for friends

plaxo®
beta

hi5

Linked in®

EBO

facebook

Ning

orkut

myspace.com®
a place for friends

plaxo®
beta

Use their data.

<http://api.ning.com/rest/1.0/profile:brianm/contact>

<http://code.google.com/apis/contacts/>

<http://www.plaxo.com/api>

<http://socialgraph.apis.google.com/lookup?q=skife.org&edo=true>



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- Photos
- Developer
- Events
- Twitter
- Ian Pics
- more

Baby Photo Contest



Upload a cute photo of a baby you know for free and you could win \$2500 in the great American photo contest.

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ATOMWALKER

MICHAEL CLAYTON

BLOCKBUSTER Online®

FREE TRIAL

CLICK HERE

Hola, Brian! all games my stats global stats settings archives

Start A New Game

Whom do you wish to play with? (enter the names of up to 3 friends)

D

- Danny Angus Glasgow
- Davanum Srinivas Boston, MA
- David Blevins Los Angeles, CA
- David Sklar Ning
- Dennis Rakhamimov Columbia
- Dh Upayavira London
- Diego Doval Ning
- Dion Almaer Google

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Dh Upayavira
London

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Ning

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Google

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all gamesmy statsglobal statssettingsarchives

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Columbia

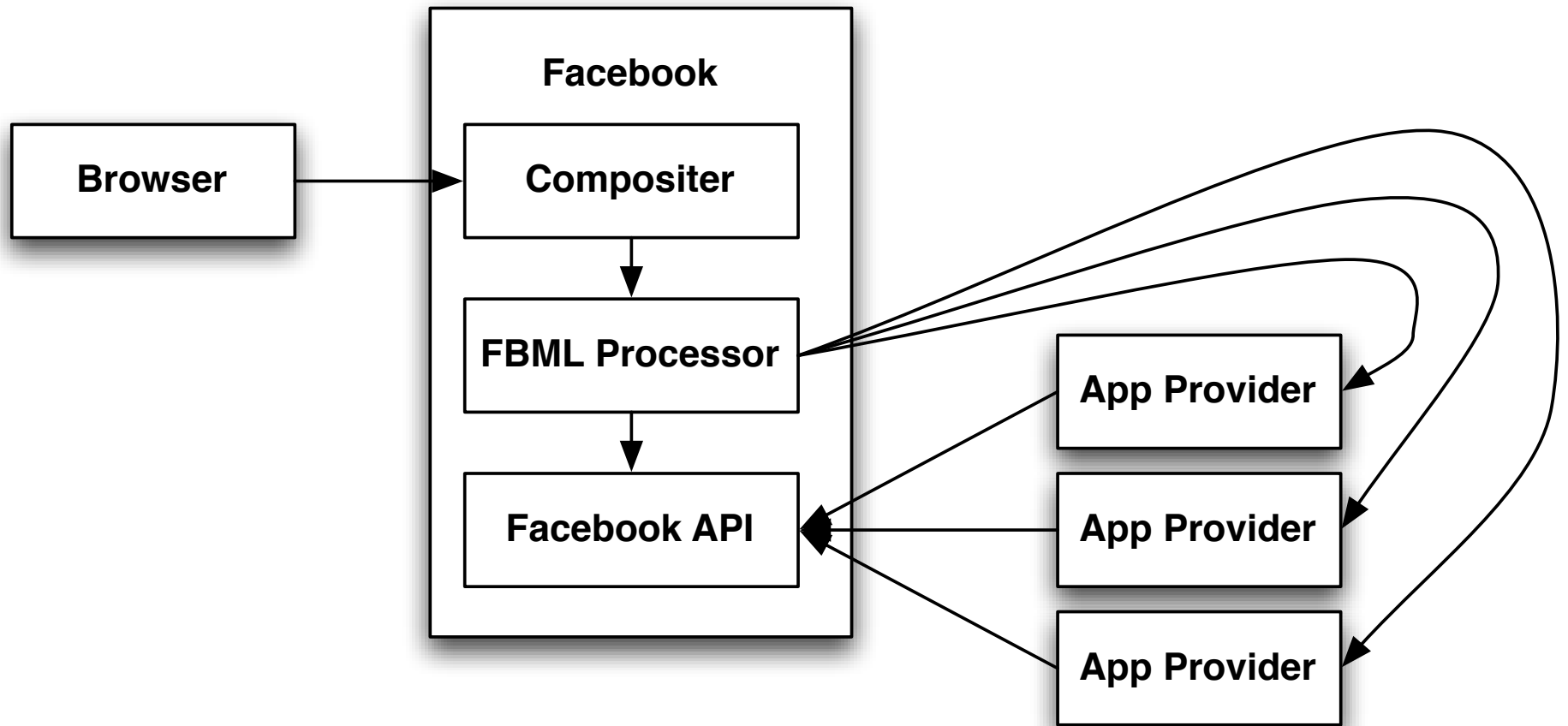
Dh Upayavira
London

Diego Doval
Ning

Dion Almaer
Google

Advertisers
Press & Media

Help
Contact Us



```
<fb:if-can-see uid="12345" what="profile">
    You're allowed to see 12345's profile, chum!
<fb:else>
    No profile for you!
</fb:else>
</fb:if-can-see>
```

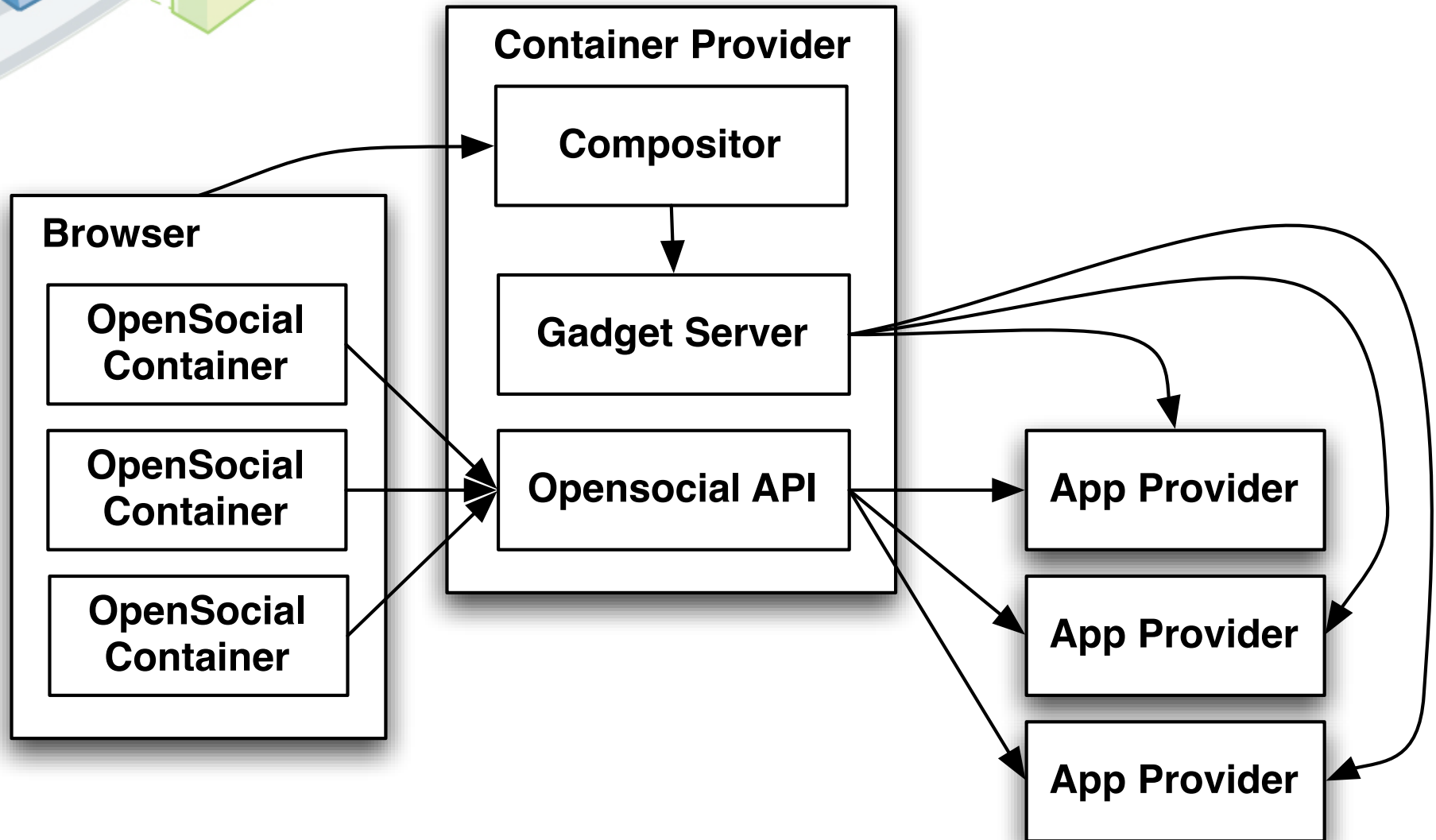
```
try {
    if (!$facebook->api_client->users_isAppAdded()) {
        $facebook->redirect($facebook->get_add_url());
    }
} catch (Exception $ex) {
    $facebook->set_user(null, null);
    $facebook->redirect($appcallbackurl);
}
```

```
<fb:if-can-see uid="12345" what="profile">
    You're allowed to see 12345's profile, chum!
<fb:else>
    No profile for you!
</fb:else>
</fb:if-can-see>
```

```
try {
    if (!$facebook->api_client->users_isAppAdded()) {
        $facebook->redirect($facebook->get_add_url());
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} catch (Exception $ex) {
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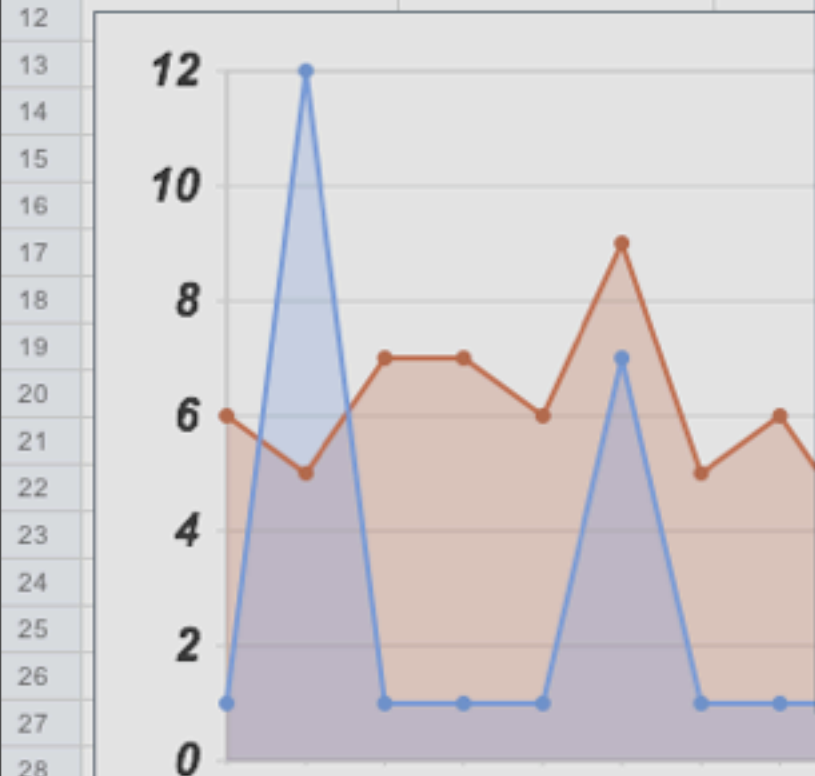
```
<fb:if-can-see uid="12345" what="profile">
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<fb:else>
    No profile for you!
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</fb:if-can-see>
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    }
} catch (Exception $ex) {
    $facebook->set_user(null, null);
    $facebook->redirect($appcallbackurl);
}
```



```
<?xml version="1.0" encoding="UTF-8"?>
<Module>
  <ModulePrefs title="Gifts part 1 - Friends">
    <Require feature="opensocial-0.7"/>
  </ModulePrefs>
  <Content type="html">
    <![CDATA[
      <script>
        function loadFriends() {
          var req = opensocial.newDataRequest();
          req.add(req.newFetchPersonRequest('VIEWER'), 'viewer');
          req.add(req.newFetchPeopleRequest('VIEWER_FRIENDS'),
                  'viewerFriends');
          req.send(onLoadFriends);
        }
        ...
      </script>
      <div id='main'>
        Your friends:
        <div id='friends'></div>
      </div>
    ]>
  </Content>
</Module>
```

	A	B
1		
2	1	6
3	12	5
4	1	7
5	1	7
6	1	6
7	7	9
8	1	5
9	1	6
10	1	4
11	1	3



Add a Gadget

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Have a better idea?

Write your own gadget with built in javascript libraries that make it easy to fetch data from Google Spreadsheets and display it in cool new ways.

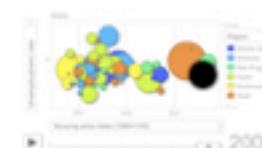


Interactive Time Series Chart

Google

An interactive time series like the one used in Google Finance. The first column contains dates and the second column contains values.

[Add to spreadsheet](#)



Motion Chart

Google

A dynamic flash based chart showing several indicators over time. The first column: bubble name, the second column: time, the third column: numeric values. The fourth column: Numeric values of the indicators.

[Add to spreadsheet](#)

FusionCharts

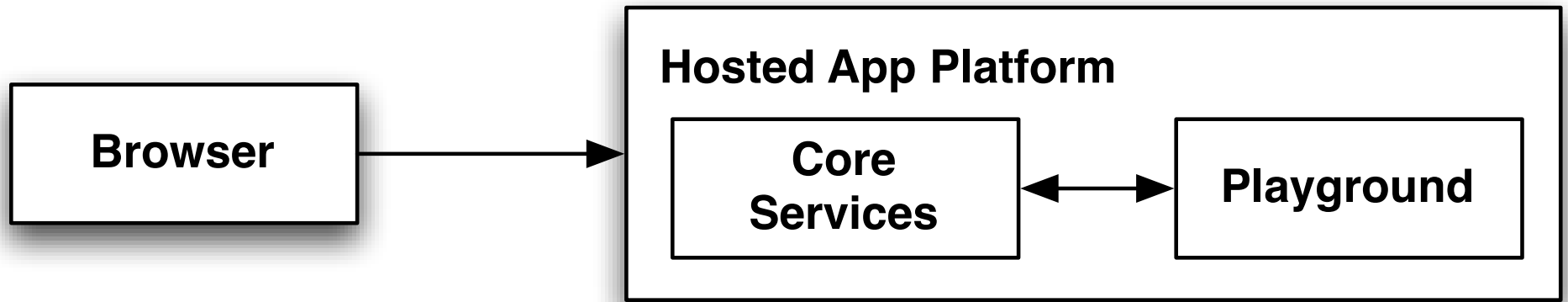
Animated flash charts for blogs & websites



FusionCharts Funnel Width

InfoSoft Global (P) Ltd.

Animated funnel charts for your spreadsheets. Visually compare data and present it in a clear and concise manner.



Latest Activity



[Joy McCallister](#) added 2 videos.

[View Videos](#)

Mar 15



[Granpa Gamble](#) commented on the photo [IMG 0603](#)

Mar 13



[Granpa Gamble](#) added 15 photos. [View Photos](#)

Mar 8



[jai castorena](#) joined Ian's Place on the Web. [Leave a Comment](#) for jai castorena.

Mar 8



[Kathy](#) joined Ian's Place on the Web. [Leave a Comment](#) for Kathy.

Mar 2



[Jonathan Aquino](#) joined Ian's Place on the Web. [Leave a Comment](#) for Jonathan Aquino.

Feb 28



[Abby Larson](#) joined Ian's Place on the Web. [Leave a Comment](#) for Abby Larson.

Feb 28



[Tait Larson](#) joined Ian's Place on the Web. [Leave a Comment](#) for Tait Larson.

Feb 28



[flamefew](#) Drinking with Greg the night before, and yet in the keynote. What's the world getting to? [4 minutes ago](#) from web ☆



[codeslinger @obie](#) are you coming to the party tonight? [14 minutes ago](#) from web in reply to obie ☆



[pburleson @panache](#) Sounds like some bad hardware. Maybe memory needs to be reseated? [16 minutes ago](#) from web in reply to panache ☆

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[Rachel Masters](#) is attending the event [Maker Faire Bay Area](#).



Hosted by: [MAKE Magazine](#)



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The legendary brand shines with a whole new line of vintage-inspired footwear and clothing, exclusively at Target.



[Dion Almaer](#) wrote a new blog post.



"JavaScript Has Fashion and Luck to Thank?"



[Greg Stein](#) and [Andrew Kippen](#) are now friends.



[Laura Gluhanich](#) can't even handle RT. She smells a race tomorrow.

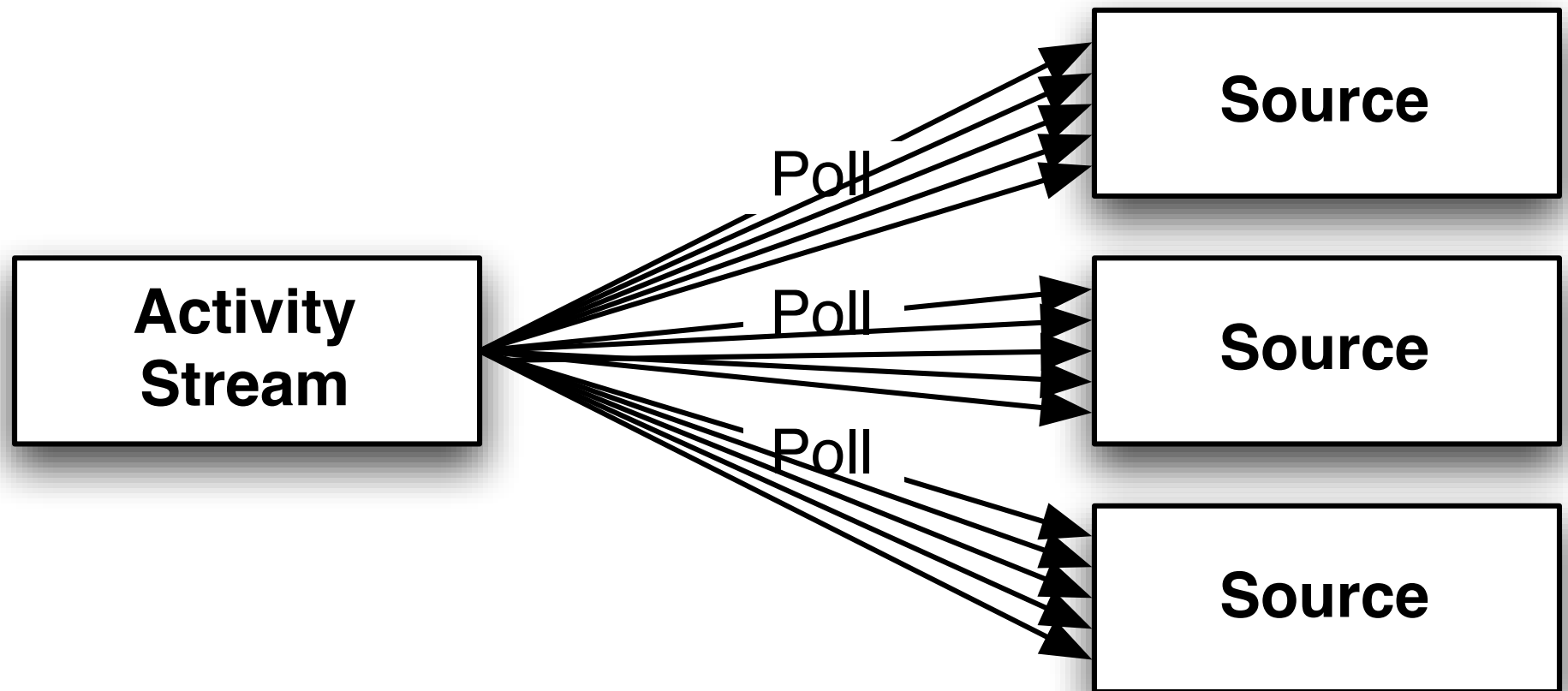


Atom/RSS

XMPP/SMS

Internal Activity

Atom/RSS





friendfeed

friends

me

everyone


 Share something

 [Dion Almaer](#) bookmarked a page on [del.icio.us](#)

[MediaWiki Offline](#)


7 minutes ago - [Comment](#) - [Like](#) - [More](#) ▾

 I would love to see MediaWiki and Wikipedia itself go offline. Think of the OLPC! - [Dion Almaer](#)

 [John Wilson](#) had a new status message on [Gmail/Google Talk](#)


"Test FriendFeed"

45 minutes ago - [Comment](#) - [Like](#) - [More](#) ▾

 [Ted Leung](#) posted a message on [Twitter](#)

"nice sunlight today - bright enough to be washing out the displays in my office"

2 hours ago - [Comment](#) - [Like](#) - [More](#) ▾

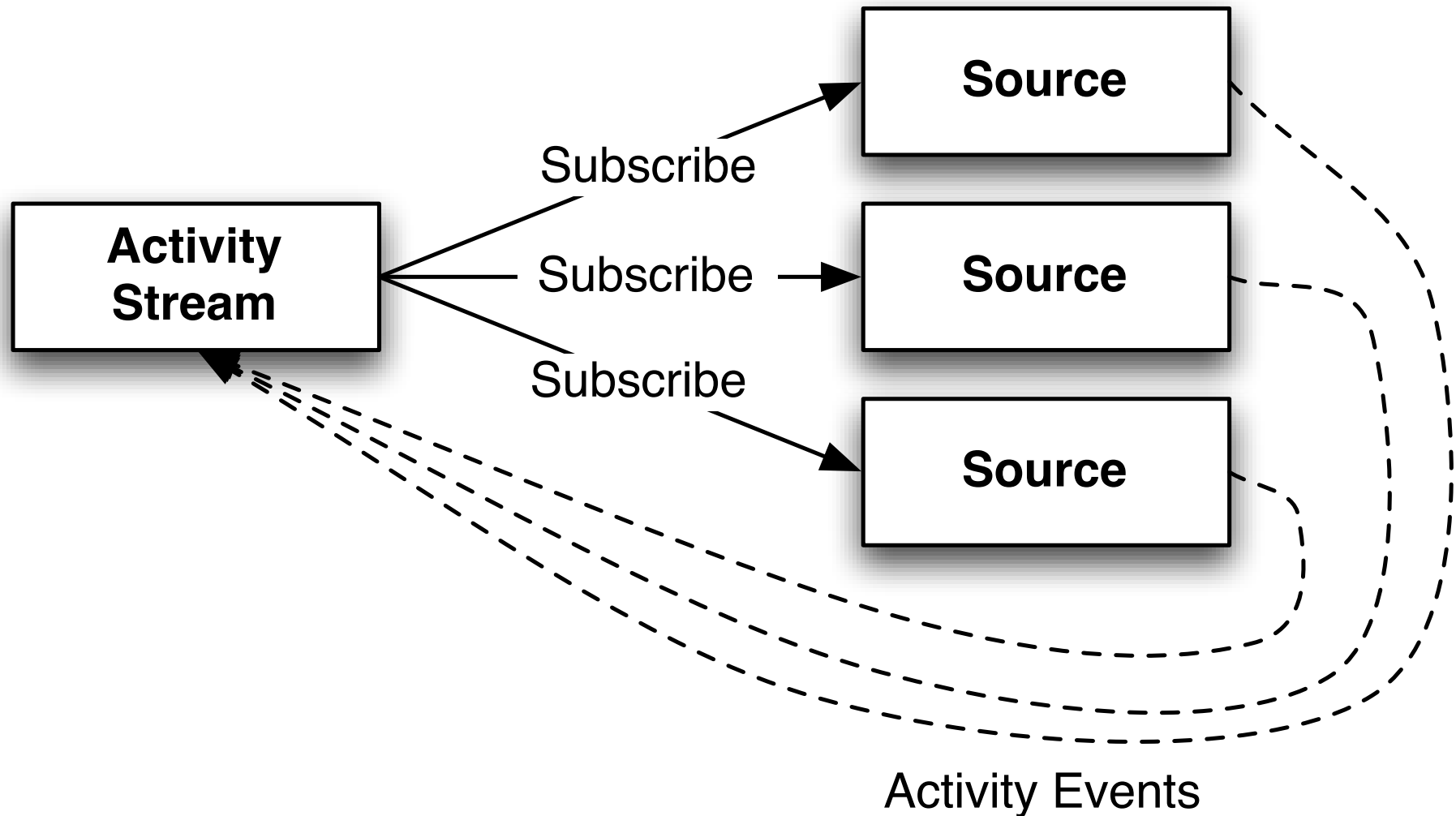
 [Dion Almaer](#) posted a blog post on [techno.blog\("Dion"\)](#)

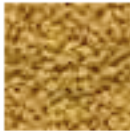
[How FriendFeed could dwarf Facebook and Twitter](#)

2 hours ago - [Comment](#) - [Like](#) - [More](#) ▾

 [atul](#) and [Dimitri Glazkov](#) liked this

XMPP/SMS





flamefew Drinking with Greg the night before, and yet in the keynote. What's the world getting to? [4 minutes ago](#) from web ☆



codeslinger @[obie](#) are you coming to the party tonight? [14 minutes ago](#) from web [in reply to obie](#) ☆



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Internal Activity

?

Internal Activity



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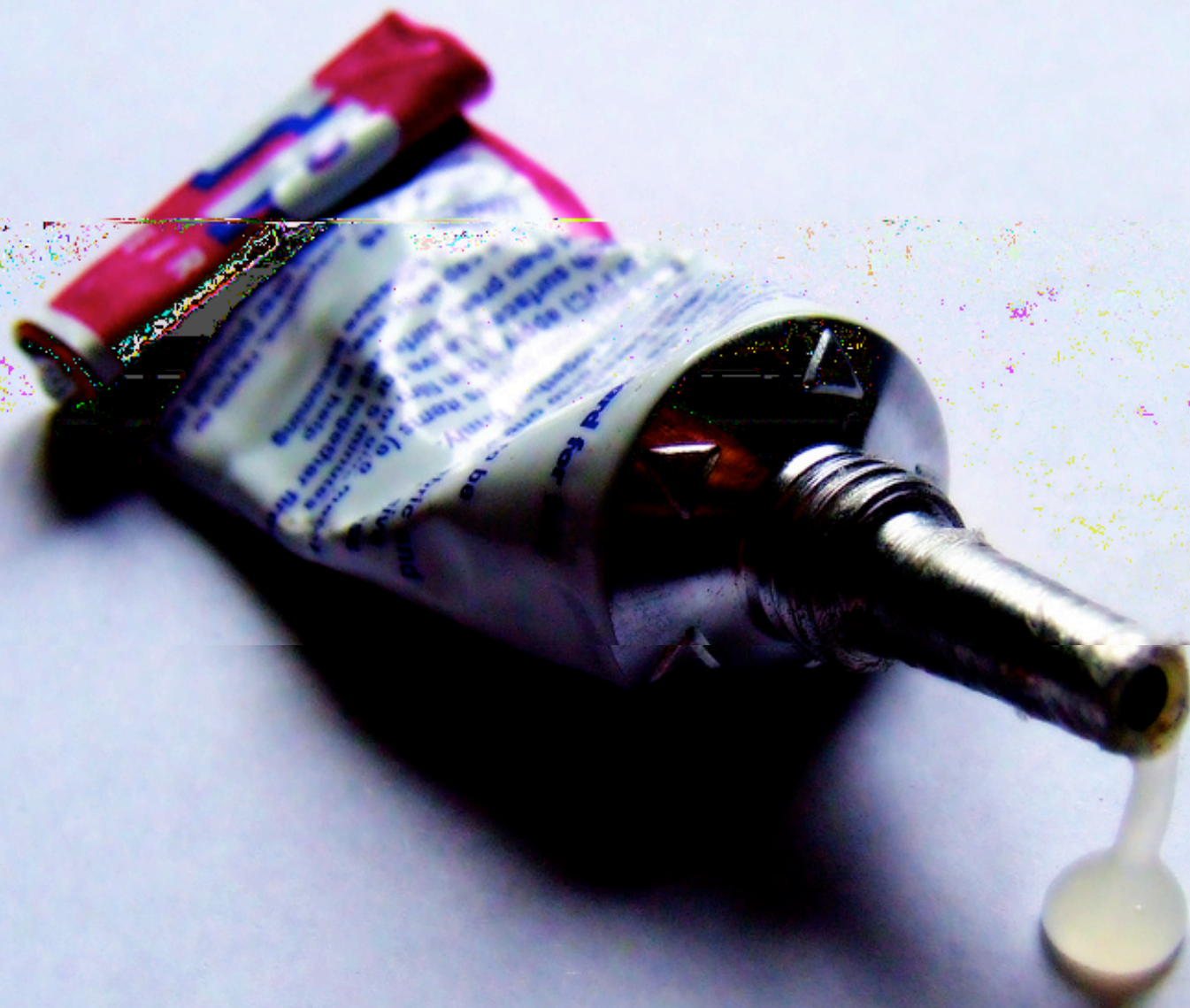


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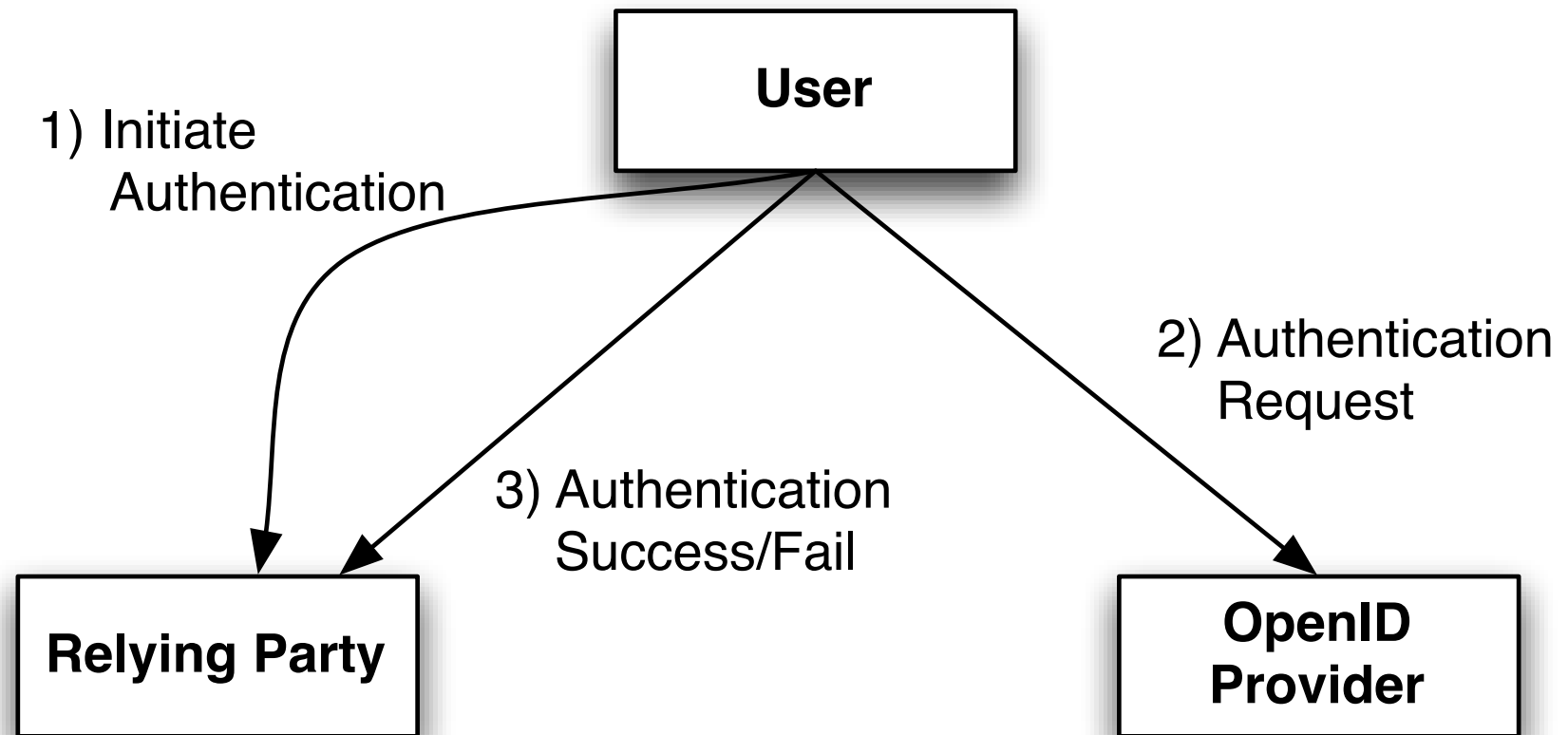
Laura Gluhanich can't even handle RT. She smells a race tomorrow.





Federated Identity





<http://brianm.skife.org/>

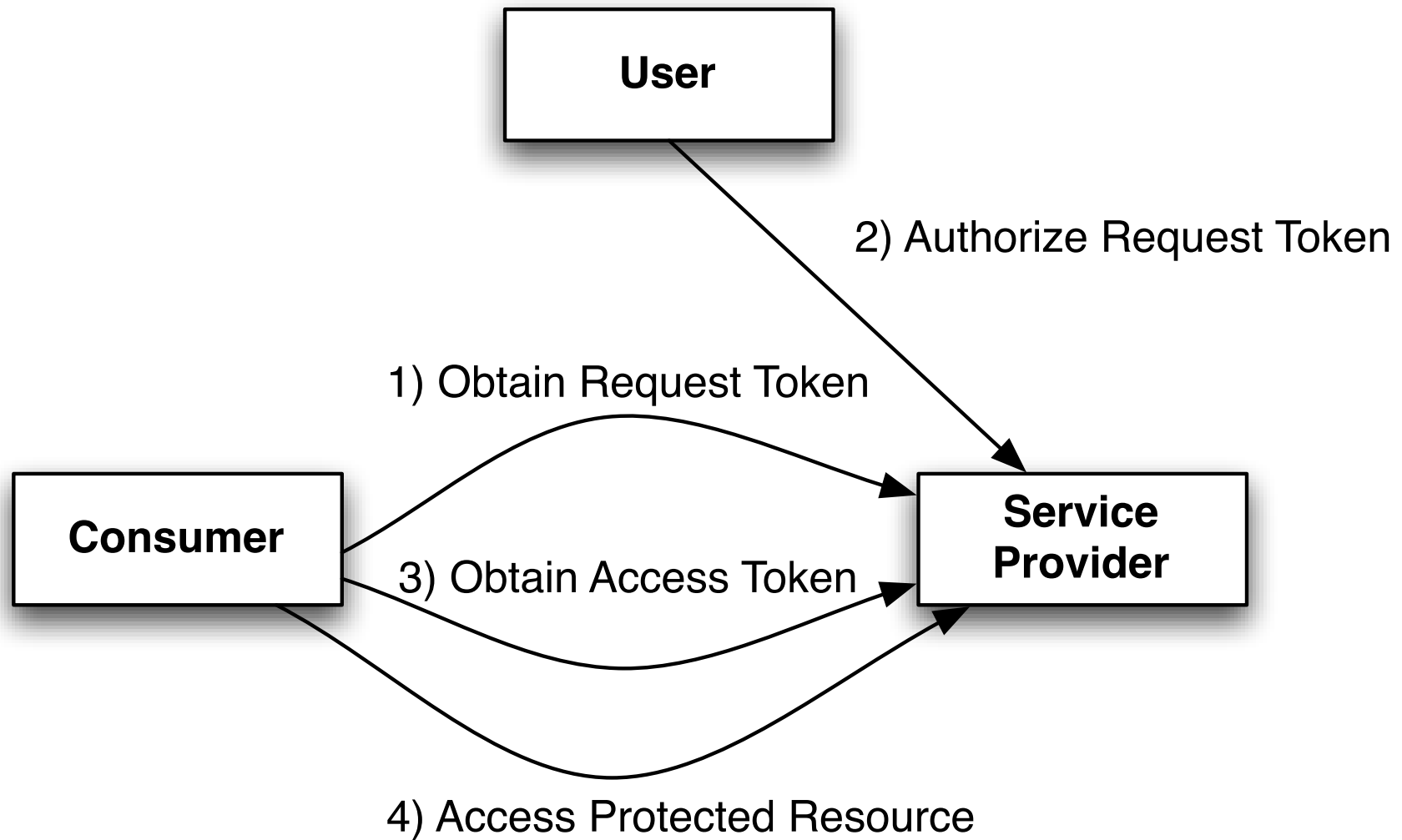
brianm.skife.org

brianm@skife.org

API Authentication/Authorization

OAuth

OAuth





DataPortability



DataPortability



DataPortability



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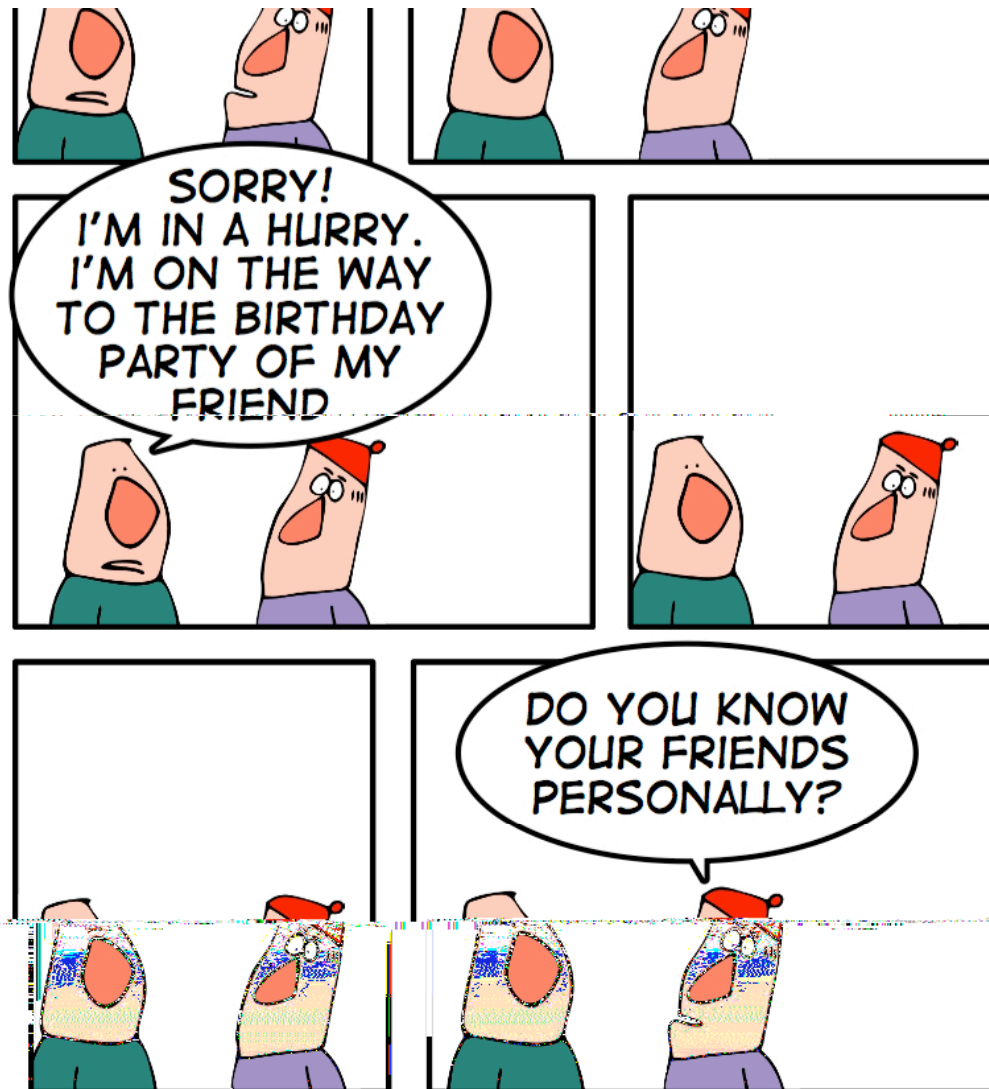
DataPortability



Hacking the Social Graph

Emerging Technologies for the Enterprise '08

Brian McCallister
brianm@ning.com
<http://www.ning.com/>



PART1: THE SOCIAL GRAPH