



# Being sociable

Opensocial, Shindig, and Lonely Planet Groups

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# Opensocial

- Platform to host 3rd party "Gadgets" on a site.
- Open specification for how all the bits hang together
- Developed by Google/MySpace originally
- Kind of like Facebook applications (hopefully with fewer ninjas and pirates)
- Cross platform and portable. Taking the "walls" away from the garden.... in theory...



# Gadgets vs OpenSocial vs Wave

OpenSocial gadgets are Google Gadgets  
Wave Extensions are also Google Gadgets  
Some OpenSocial gadgets can be Wave Extensions  
(But not necessarily)



# 3rd Party Interactivity

- Containers handle security, persistence etc
- Gadget developers create apps for container
- Hopefully in original, and unexpected ways



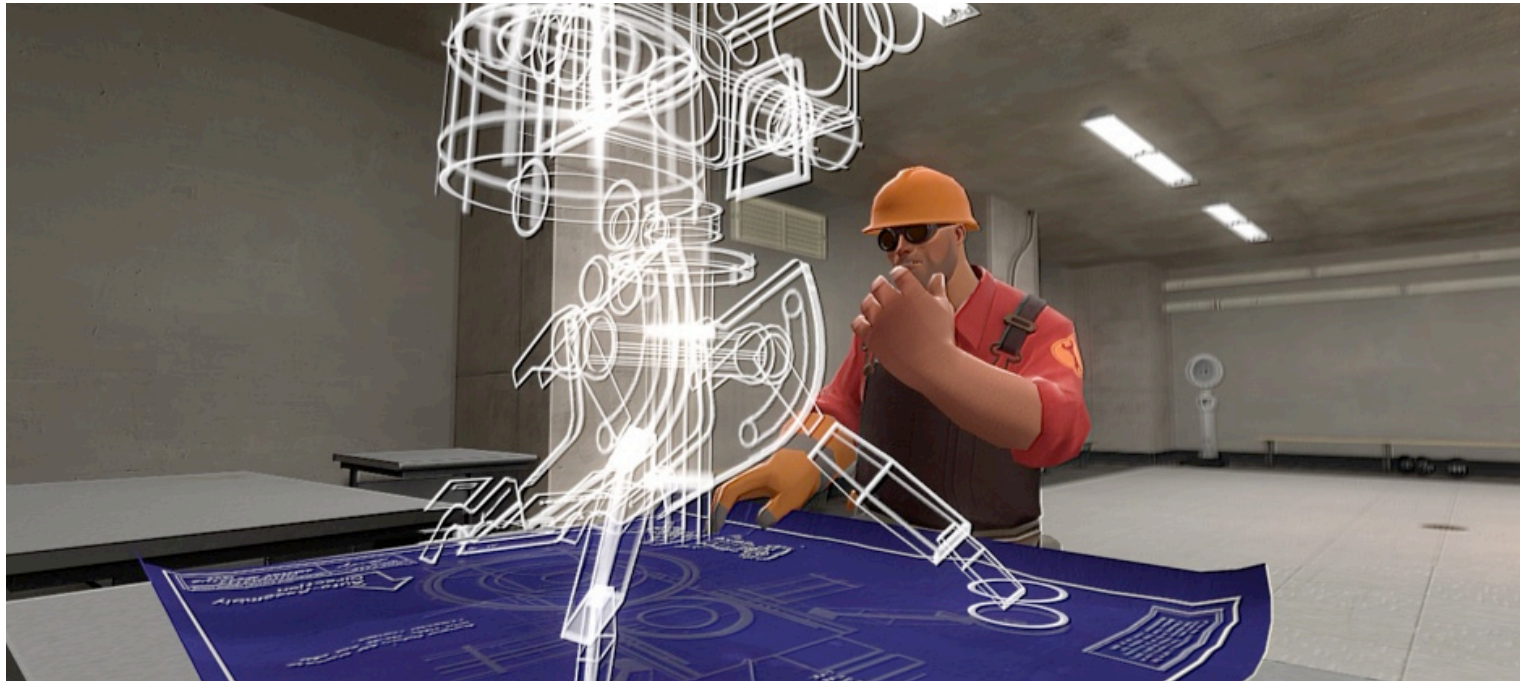
# Kinda open

- Gadgets are write once run anywhere... (heard that before)
- Each site has own needs and quirks
- Leads to compatibility issues
- Data still closed



# Shindig

- Java / PHP Reference implementation
- Container only. No user/gadget housekeeping
- Not production ready out of the box
- But lots of extension points
- Almost no documentation



# Our Implementation

- Rails app for main site  
<http://www.lonelyplanet.com/groups>
- Shindig (Java running on Tomcat)
- Rails app exposes data web service:  
People/Activities/Data/OAuth credentials
- Shindig grabs data via HTTP from Rails app



# So lets see some in action





# Recommended Reading



The screenshot shows a web browser window with the URL <http://www.lonelyplanet.com/groups/madleps-private-group/apps/recommended-re>. The page is titled "madlep's private group" and was created on 30 April 2009 by "madlep". It has 8 members. The "Apps" tab is selected in the navigation bar.

**Recommended Reading**

Recommend a book

Add your book recommendation to the collective wisdom of the group 'madlep's private group'. Search [Amazon's vast collection of titles](#) and select which books you would most recommend to other group members.

Search box: opensocial [Search books]

-  **Building OpenSocial Apps: A Field Guide to Working with the MySpace Platform**  
Chris Cole, Chad Russell, J...  
[Add to list](#)
-  **OpenSocial Network Programming (Wrox Programmer to Programmer)**  
Lynne Grewe  
[Add to list](#)

Page footer: Done, YSlow, PageRank, Alexa

# Chat

madlep's private group - beta - Lonely Planet

http://www.lonelyplanet.com/groups/madleps-private-group/apps/real-time-chat

lonely planet **20% OFF SALE** FREE Delivery selected regions, minimum spend shop.lonelyplanet.com Conditions apply LIMITED TIME ONLY

Home Destinations Community Shop Hotels & hostels Travel services madlep

Groups beta > madlep's private group > Apps > madlep's private group

## madlep's private group

Created 30 April 2009 by madlep Leave this group  
8 members

Wall Photos Members **Apps**

### Real Time Chat

**madlep** 4 minutes ago  
What's up?

**madlep** 8 minutes ago  
Hello? Anyone here?

**madlep** 8 minutes ago  
This would be more fun with more people talking :(

Talk! Chat

Done YSlow PageRank Alexa

# Trippy (Wave extension)

The screenshot shows a Google Wave browser window titled "Julian (15) - Google Wave". The address bar displays the URL: <https://wave.google.com/wave/#minimized:nav,minimized:contact,minimized:search,>. The page header includes "Google wave preview" and navigation tabs for "Navigation", "Contacts", and "Inbox". The main content area features a search bar with the text "shop" and a "Search" button. Below the search bar, it says "Lonely Planet recommendations : sights, shopping, hotels, entertainment, restaurants". The main section is titled "Melbourne Trip - Edit" and shows the trip owner as "Julian Doherty". A map of Melbourne, Australia, is displayed with several red location pins. To the right of the map, there are sections for "Unscheduled Items" and "Scheduled Items". The "Unscheduled Items" list includes "Melbourne Town Hall", "Ian Potter Centre: National Gallery of Victoria Australia", and "Christine". The "Scheduled Items" list includes "Day 1", "Day 2", "Day 3", "Day 4", and "Day 5". The bottom of the page shows a "Tags:" field and a "Files" dropdown menu.

Julian (15) - Google Wave

<https://wave.google.com/wave/#minimized:nav,minimized:contact,minimized:search,>

Google wave preview Navigation Contacts Inbox Julian | Terms | Privacy | Help | Sign out

Search for items to add to your trip: shop Search Create trip

Lonely Planet recommendations : sights, shopping, hotels, entertainment, restaurants

Melbourne Trip - Edit View other trips Trip actions

Trip owner: Julian Doherty 0 0 Vote Now

(7 days) Edit

Unscheduled Items Create your own item

- Melbourne Town Hall  
cnr Collins & Swanston Sts City Centre
- Ian Potter Centre: National Gallery of Victoria Australia
- Christine

Scheduled Items

- Day 1
- Day 2
- Day 3
- Day 4
- Day 5

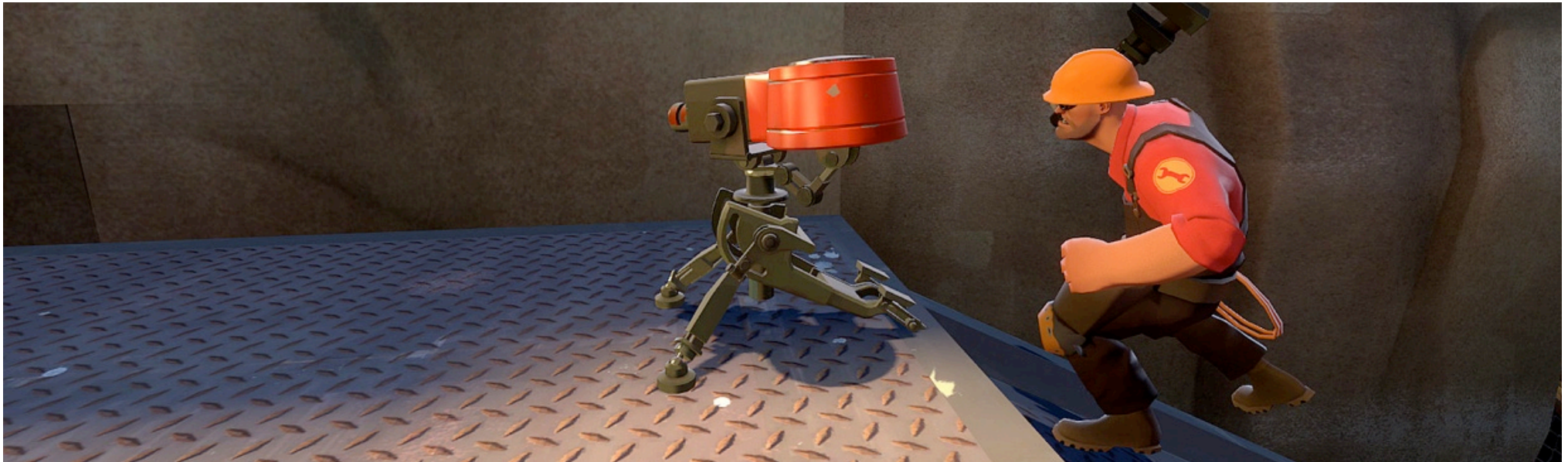
Tags: Files

# Some code now



# Opensocial Javascript API

- People (Relationships, social network)
- Activities (Who did what)
- Data (Key/value pairs for person/app)
- Web services (with OAuth)



# Simplest thing that works

```
<?xml version="1.0" encoding="UTF-8"?>
<Module>
  <ModulePrefs title="Hello World!" />
  <Content type="html">
    <![CDATA[
      <h1>Hello World!</h1>
    ]]>
  </Content>
</Module>
```

# Social Graph

```
function loadFriends() {
  var req = opensocial.newDataRequest();

  req.add(req.newFetchPersonRequest(opensocial.IdSpec.PersonId.VIEWER),
    'viewer');

  var viewerFriends = opensocial.newIdSpec(
    {"userId": "VIEWER", "groupId": "FRIENDS"});
  req.add(req.newFetchPeopleRequest(viewerFriends), 'viewerFriends');

  req.send(onLoadFriends);
}

function onLoadFriends(data) {
  var viewer = data.get('viewer').getData();
  var viewerFriends = data.get('viewerFriends').getData();
  //do cool with the results here...
}
```

# Activity stream / wall posts

```
function postActivity(user, thing) {
  var params = {};
  params[opensocial.Activity.Field.TITLE] =
    'YO, IMMA LET YOU FINISH, BUT ' + user +
    'HAS THE BEST ' + thing + ' EVER!';
  var activity = opensocial.newActivity(params);

  opensocial.requestCreateActivity(activity,
    opensocial.CreateActivityPriority.HIGH, function() {});
}
```



# Key/value pair data

```
function loadSomeData() {  
    var req = opensocial.newDataRequest();  
    var viewer = opensocial.newIdSpec({ "userId" : "VIEWER" });  
    req.add(req.newFetchPersonAppDataRequest(viewer, 'key', 'value'));  
    req.send(onLoadSomeData);  
}
```

```
function writeSomeData() {  
    var json = gadgets.json.stringify({"foo" : "bar"});  
  
    var req = opensocial.newDataRequest();  
    req.add(req.newUpdatePersonAppDataRequest("VIEWER", 'key', json));  
    req.send(onWriteSomeData);  
}
```

# gadgets.io

```
function getRemoteData(url) {  
  var params = {};  
  params[gadgets.io.RequestParameters.CONTENT_TYPE] =  
    gadgets.io.ContentType.JSON;  
  gadgets.io.makeRequest(url, onRemoteData, params);  
}
```

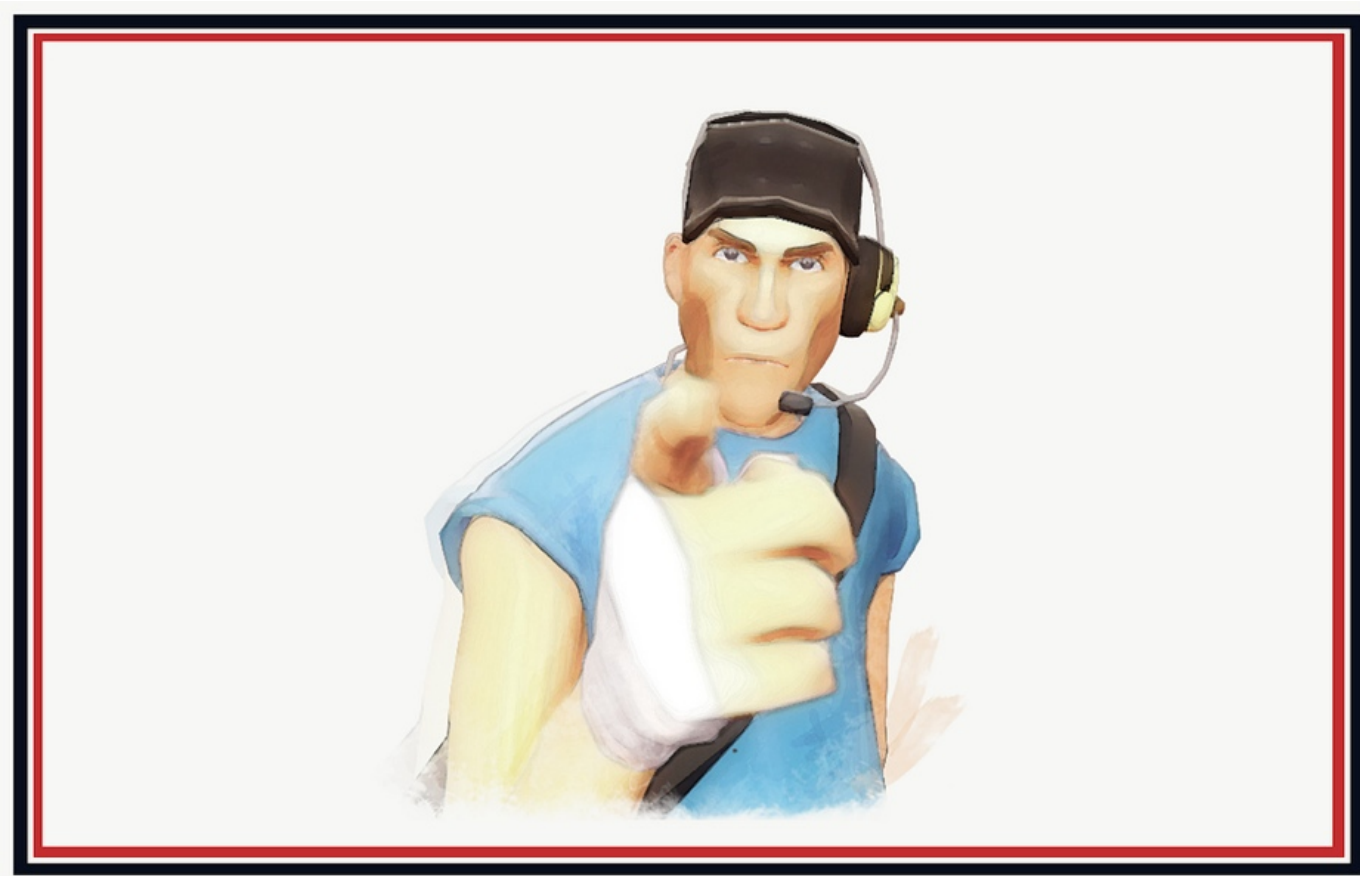
# Awesomeness

- Creating first app was cool
- Whole apps as client side is powerful
- Great to allow 3rd parties to mix and mash things up this way



# Lonely Planet / Govhack hack day

- November 7th - 8th (THIS WEEKEND!)
- See <http://lplabs.com> for details



# More?

- <http://code.google.com/apis/opensocial/>
- <http://incubator.apache.org/shindig/>
- <http://www.lonelyplanet.com/groups>
- <http://lplabs.com/groups>
- Examples ripped from <http://wiki.opensocial.org>