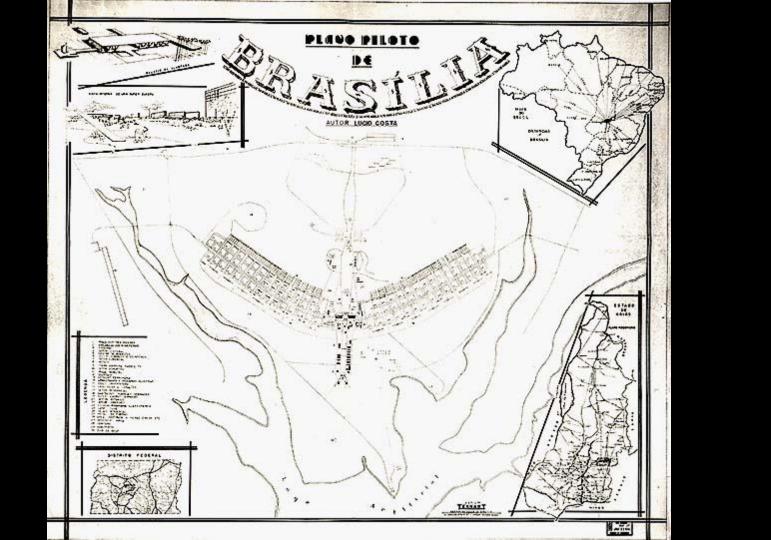
Clients Matter, Services Don't

Recovering the Future of Services on the Web

Mike Amundsen, API Academy / CA
@mamund





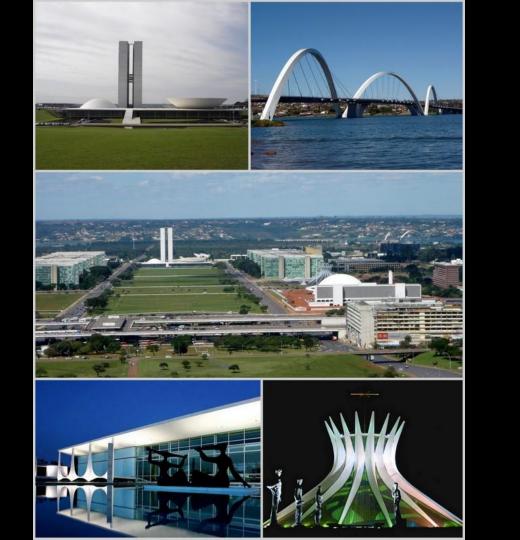






41 months



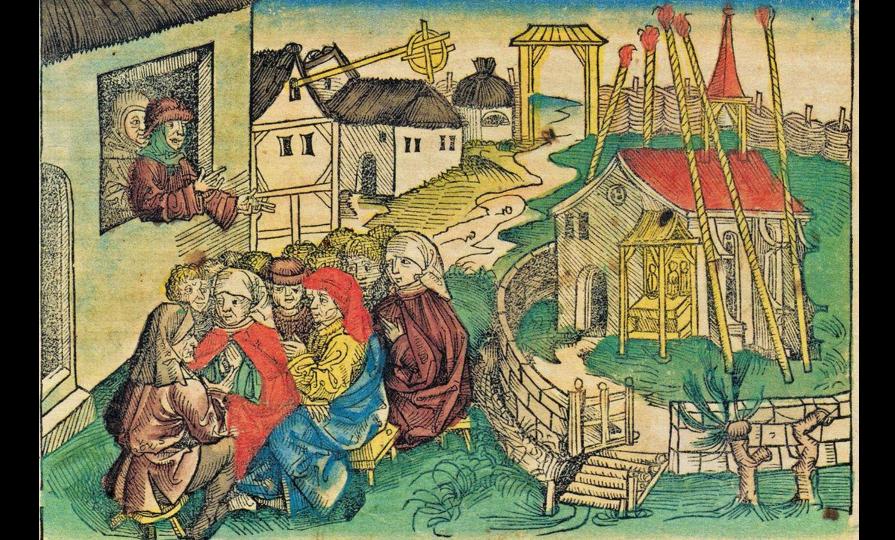


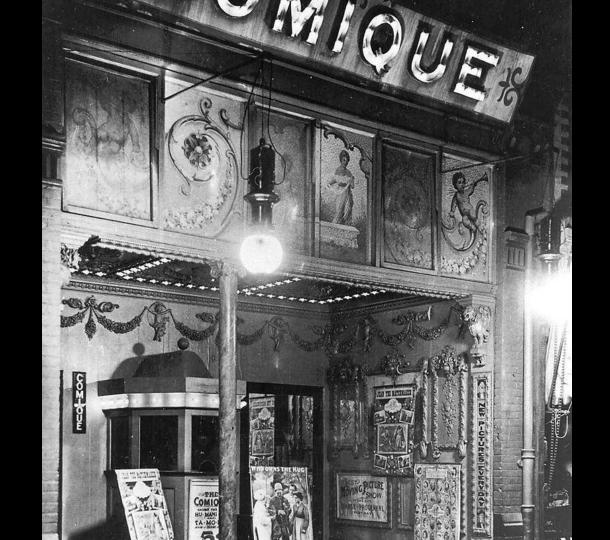


Clients Matter, Services Don't

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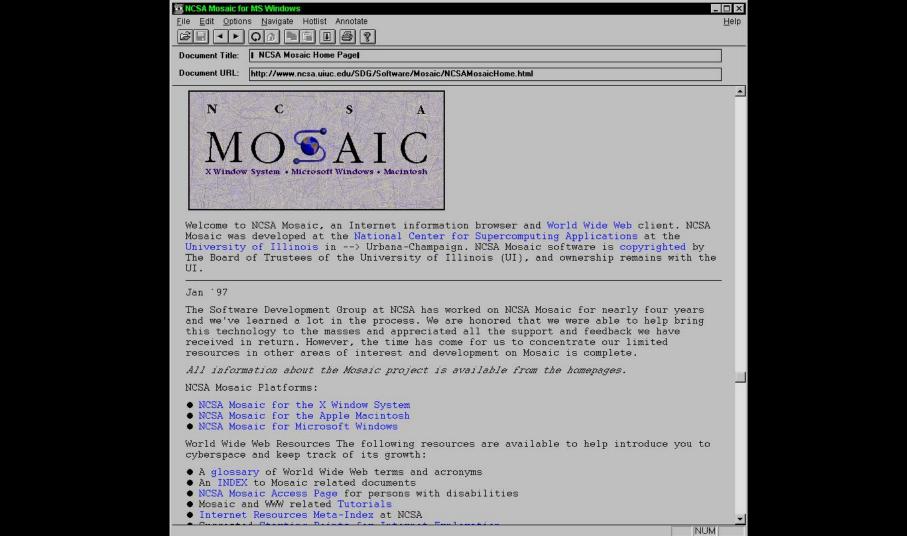






LET'S BE HONEST HERE...

TCANHASCHEEZBURGER.COM 👼 🗧 🍣



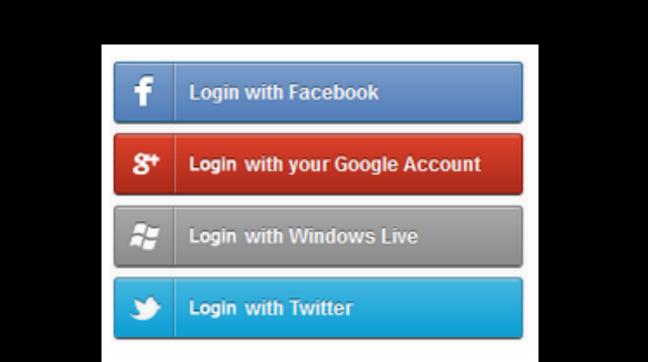
NATIVE APPS

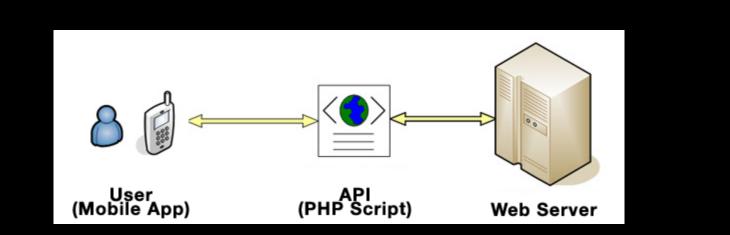


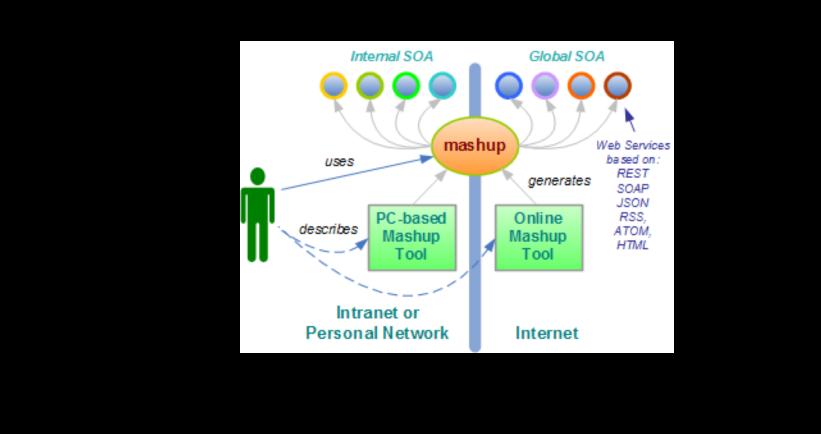




Login		
Access your account		
Email		
Password		
	Login	

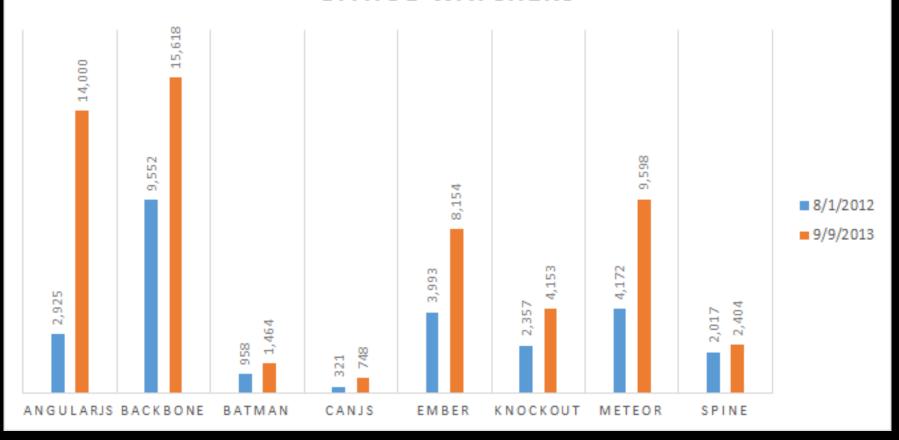


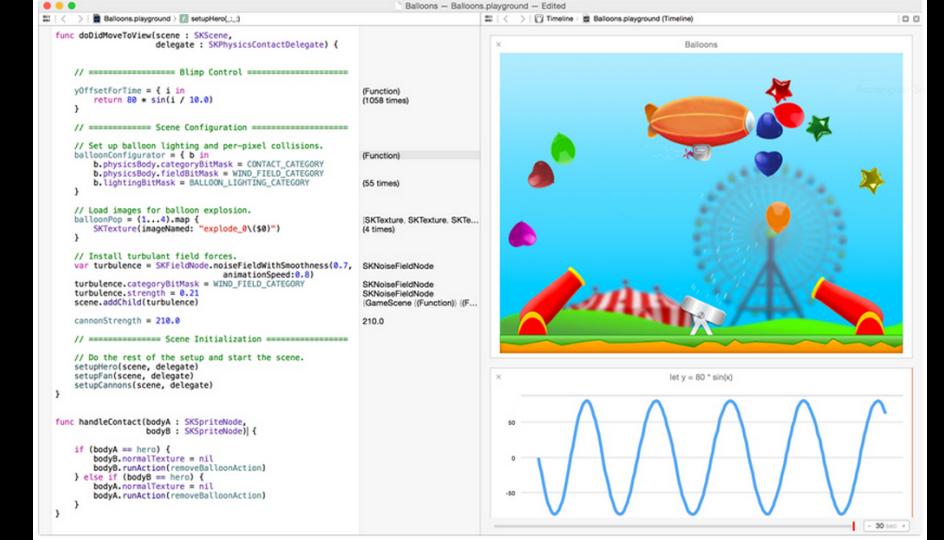






GITHUB WATCHERS





An application is defined by the client, not the service



Libraries, Widgets, and Frameworks, Oh My!









```
<!doctype html>
<html ng-app="app">
  <head>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.0-beta.</pre>
11/angular.min.js"></script>
    <script src="components.js"></script>
    <script src="app.js"></script>
    k rel="stylesheet" href="bootstrap.css">
  </head>
  <body>
    <tabs>
      <pane title="Localization">
        Date: {{ '2012-04-01' | date: 'fullDate' }} <br>
        Currency: {{ 123456 | currency }} <br>
        Number: {{ 98765.4321 | number }} <br>
      </pane>
      <pane title="Pluralization">
        <div ng-controller="BeerCounter">
          <div ng-repeat="beerCount in beers">
            <ng-pluralize count="beerCount" when="beerForms"></ng-pluralize</pre>
          </div>
        </div>
      </pane>
   </tabs>
 </body>
</html>
```



```
Date
     Subject
     From
     To
  {{#each messages}}
     {{#link-to "mail" this tagName="tr"}}
        {{date date}}
        {{view.isActive}}{{subject}}
        {from}}
        {td}{\{to\}}
     {{/link-to}}
  {{/each}}
{{outlet}}
```

```
<!-- set up the modal to start hidden and fade in and out -->
<div id="myModal" class="modal fade">
  <div class="modal-dialog">
    <div class="modal-content">
      <!-- dialog body -->
      <div class="modal-body">
        <button type="button" class="close" data-dismiss="modal">&times;</butto</pre>
        Hello world!
      </div>
      <!-- dialog buttons -->
      <div class="modal-footer"><button type="button" class="btn btn-primary">0
    </div>
  </div>
</div>
```



```
Get the <button> element with the class 'continue' and change its HTML to 'Next Step...'
  1 | $( "button.continue" ).html( "Next Step..." )
Event Handling
Show the #banner-message element that is hidden with display: none in its CSS when any button in #button-of
      var hiddenBox = $( "#banner-message" );
 2
      $( "#button-container button" ).on( "click", function( event ) {
         hiddenBox.show();
  4
      });
Ajax
Call a local script on the server /api/getWeather with the query parameter zipcode=97201 and replace the eler
      $.ajax({
 1
2
3
4
5
6
7
8
         url: "/api/getWeather",
         data: {
           zipcode: 97201
```

\$("#weather-temp").html("" + data + " degrees");

success: function(data) {

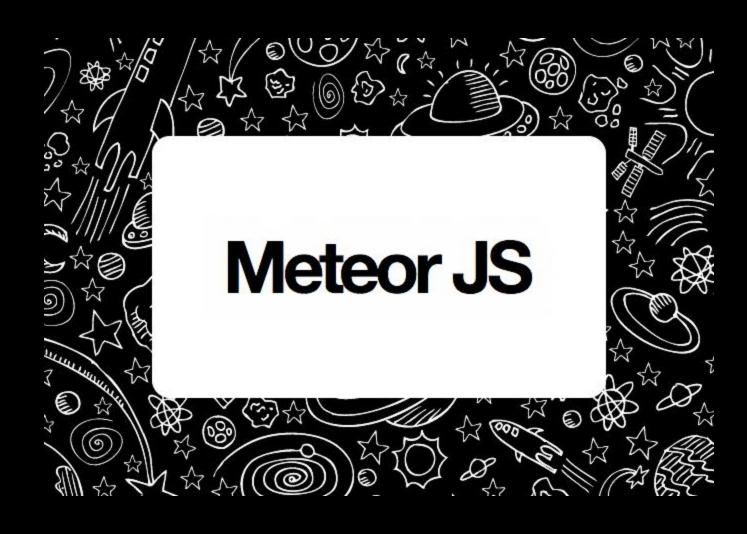
9

});

BACKBONE.JS



```
<!-- Templates -->
<script type="text/template" id="item-template">
  <div class="view">
    <input class="toggle" type="checkbox" <%= done ? 'checked="checked"' : '' %> />
    <label><%- title %></label>
    <a class="destroy"></a>
  </div>
  <input class="edit" type="text" value="<%- title %>" />
</script>
<script type="text/template" id="stats-template">
  <% if (done) { %>
    <a id="clear-completed">Clear <%= done %> completed <%= done == 1 ? 'item' : 'items' %></a>
  <% } %>
  <div class="todo-count"><b><%= remaining %></b> <%= remaining == 1 ? 'item' : 'items' %> left</div>
</script>
```



```
Meteor.publish("all-rooms", function () {
   return Rooms, find(): // everything
1);
 // server: publish all messages for a given room
Meteor.publish("messages", function (roomId) {
   check (roomId, String);
   return Messages.find({room: roomId});
1);
// server: publish the set of parties the logged-in user can see.
Meteor.publish("parties", function () {
   return Parties.find({$or: [{"public": true},
                              {invited: this.userId},
                               {owner: this.userId}]});
});
Publish functions can provide different results to each client. In the last example, a logged
in user can only see Party documents that are public, that the user owns, or that the user
has been invited to.
```

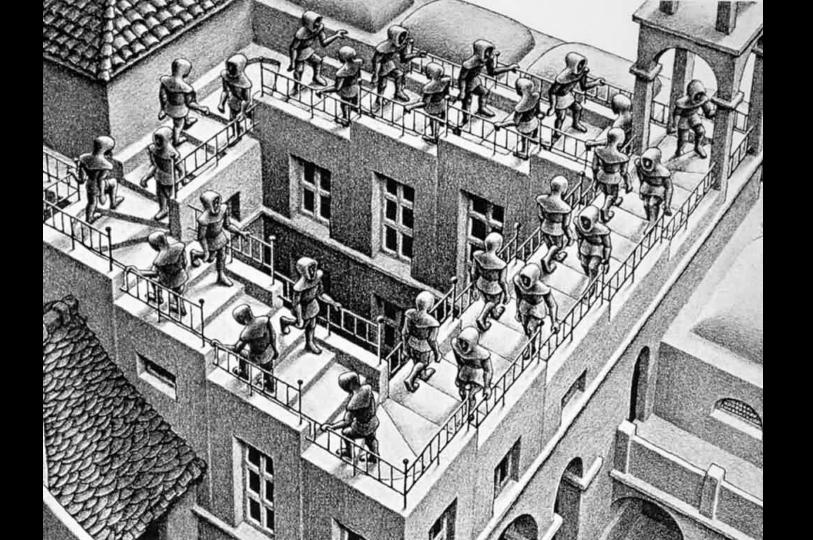
Once subscribed, the client uses its cache as a fast local database, dramatically simplifying client code. Reads never require a costly round trip to the server. And they're limited to the contents of the cache: a query for every document in a collection on a client

```
// client: start a parties subscription
Meteor.subscribe("parties");

// client: return array of Parties this client can read
return Parties.find().fetch(); // synchronous!
```

will only return documents the server is publishing to that client.

// server: publish all room documents





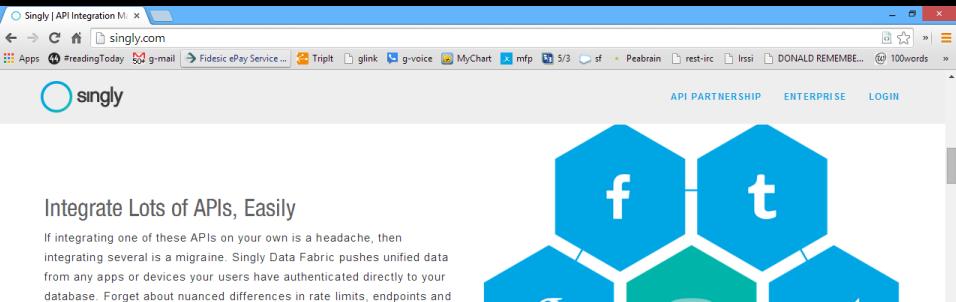


J. Developer and the Seven Services





It's your story. Own it.

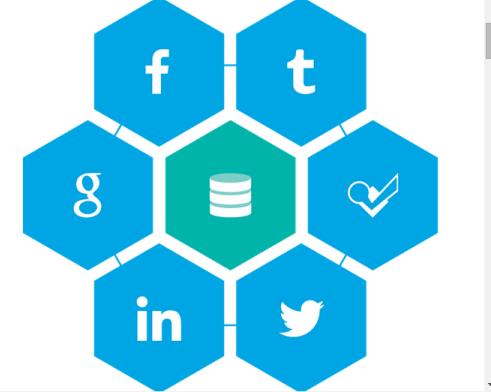


moving.

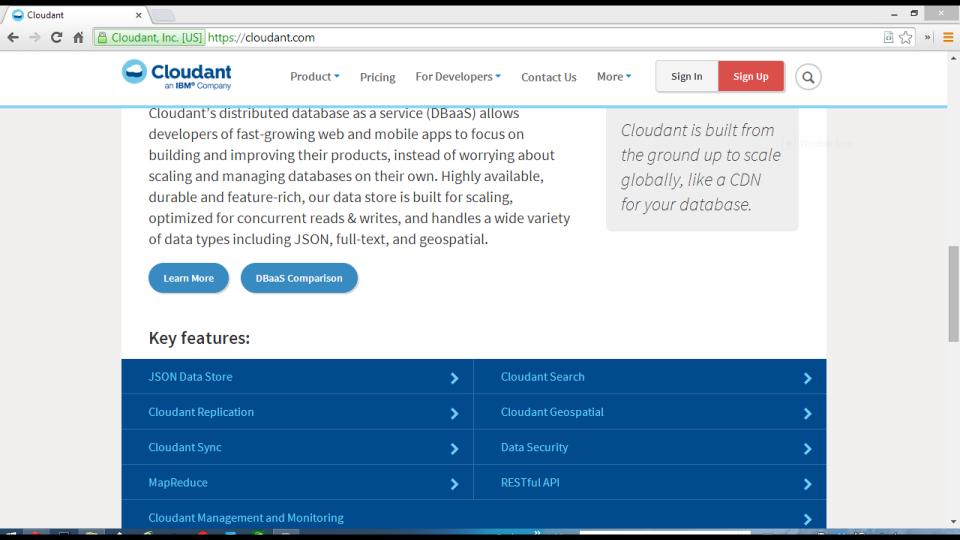
HEALTH PHOTOS SOCIAL CONTACTS

Whether you need Foursquare Checkins, Facebook Likes, Favorite Tweets or anything else across all the major social networks, we've got you covered.

API design. Instead, just pick the APIs you'd like connected and get







Cokinvey





















Customers

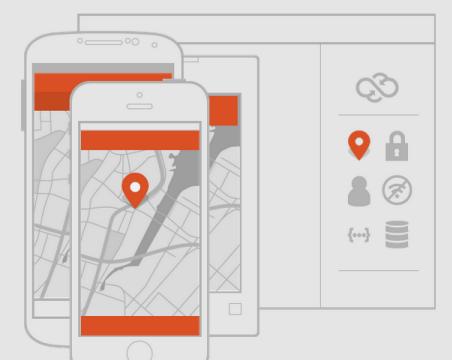
Pricing

Partners

Blog

Dev Center

Login/Sign up



THE COMPLETE PLATFORM FOR YOUR MOBILE, TABLET AND WEB APPS

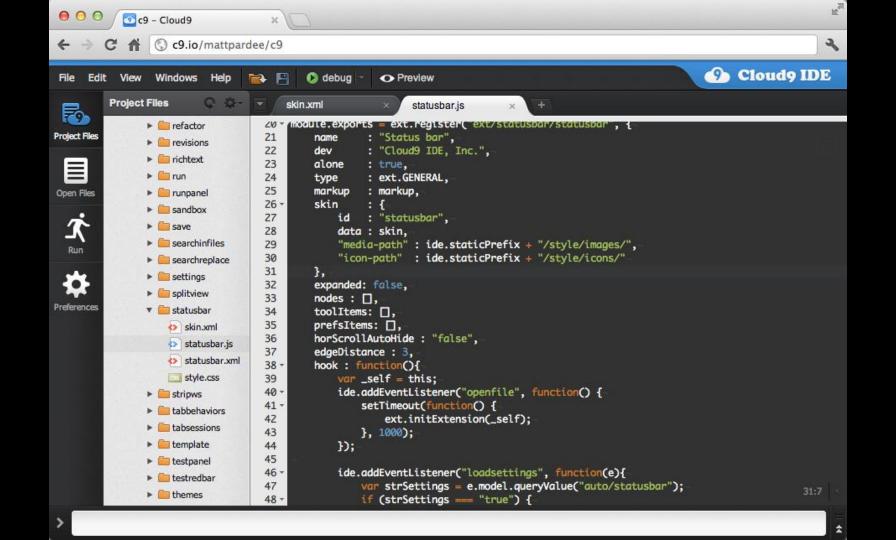
We made Kinvey so you don't have to worry about building, securing, operating, scaling or versioning your mobile infrastructure. You get faster app delivery, world class experiences and unbeatable costs.

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Cloud9 IDE Your code anywhere, anytime

























Sales

Service

Marketing

Platform

salesforce Sales Cloud

GROW SALES FASTER WITH THE WORLD'S #1 CRM APPLICATION.

Welcome to Sales Cloud, built on the Salesforce1 Platform. A new world, and a better way to sell. Where field sales closes deals from anywhere. And inside sales is fed nothing less than the best leads. It's sales managers knowing which deals will close. And when, A world where lead and contact information is always fresh and complete. And everyone performs like an "A" player.

Learn more about Sales Cloud >

View demo >

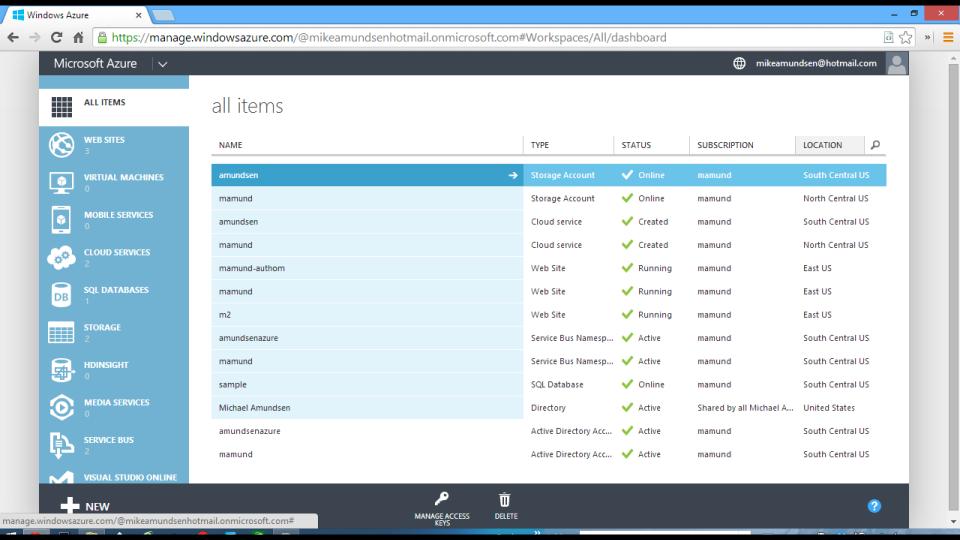
Editions & pricing >

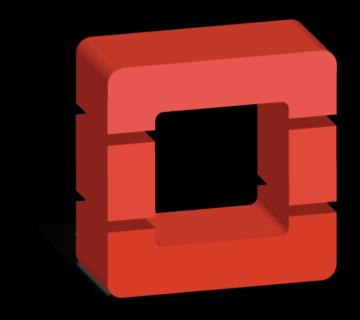
Gulded tour >





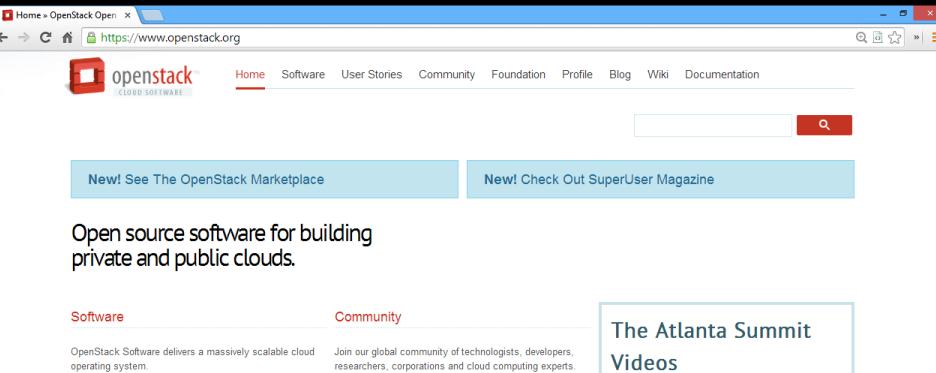
Windows Azure





openstack

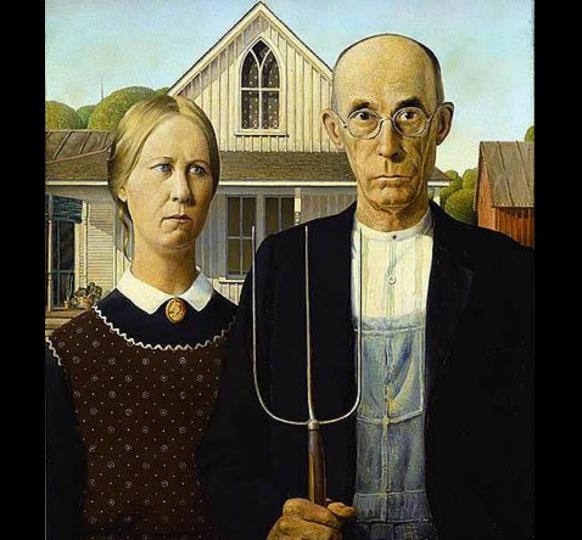
CLOUD SOFTWARE

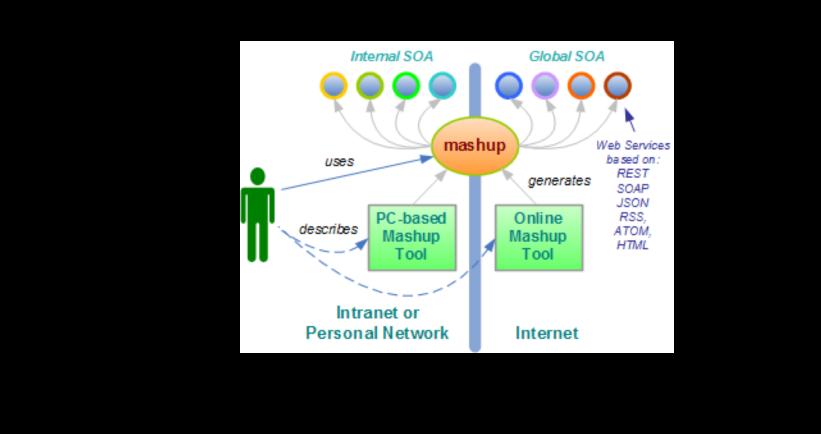










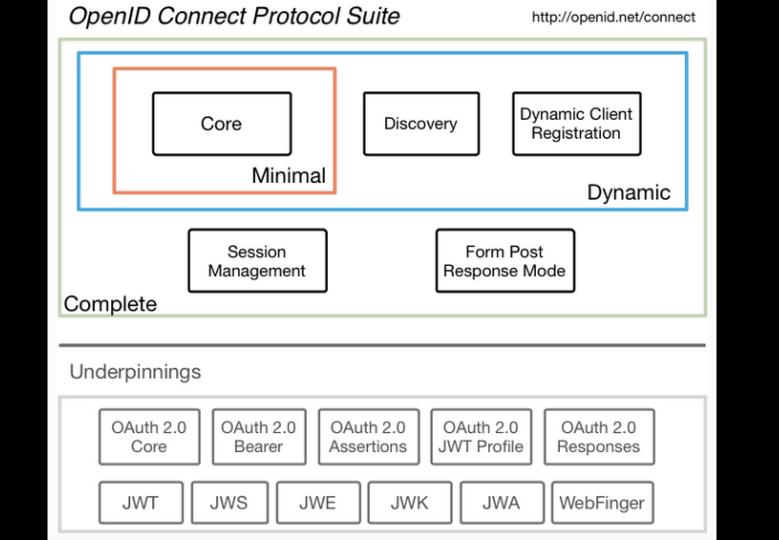




Five Not So Easy Services



Identity



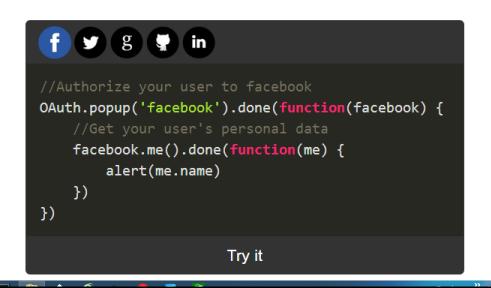








Social logins and authorizations can be annoying. So we made The fastest way to integrate OAuth





100+ OAuth providers

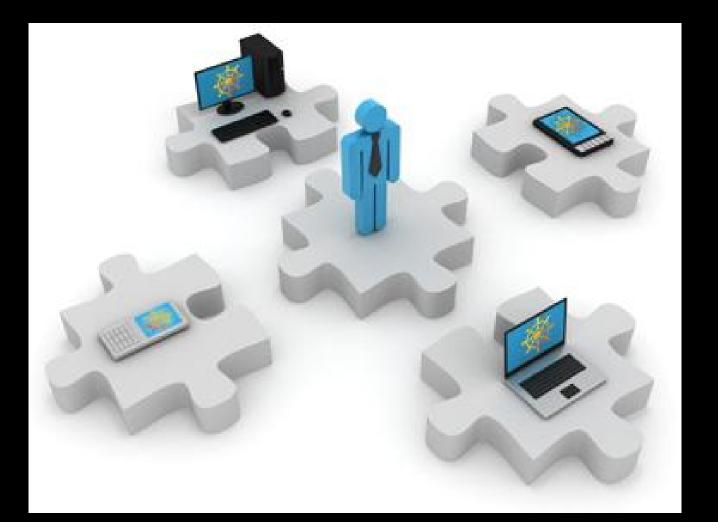


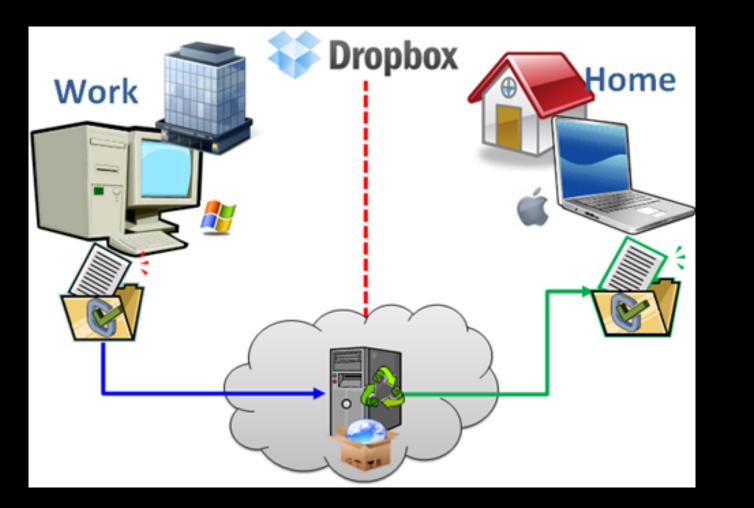
Web & Mobile SDKs



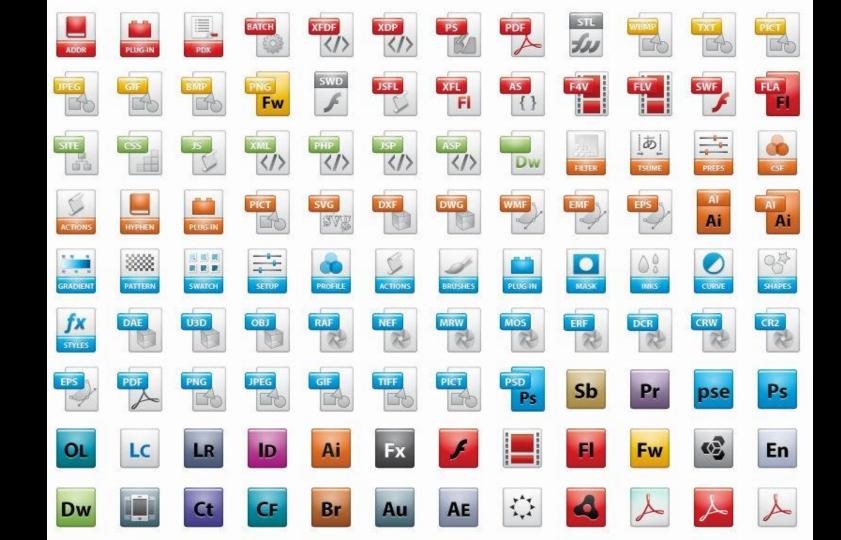
90 seconds process

Synchronization



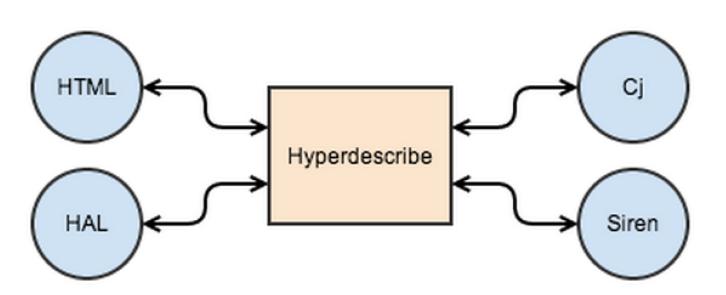


Representation

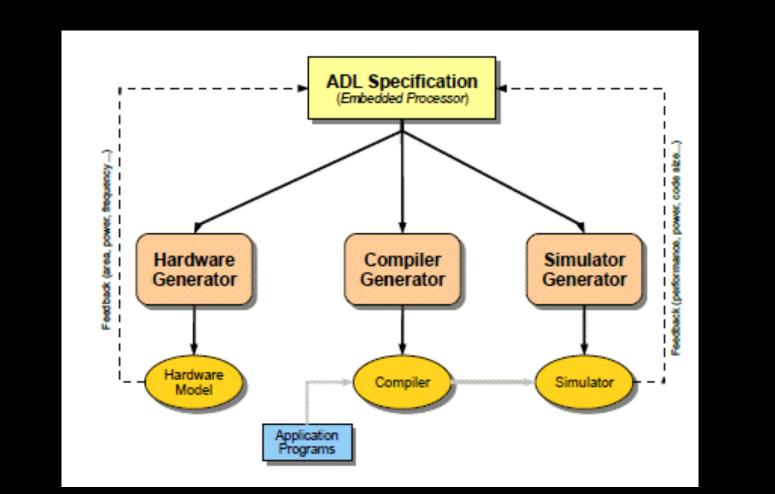


Hyperdescribe is a standardized way for describing hypermedia messages.

be built that will automatically convert one hypermedia type to another. It also
built that allows for coding to hypermedia elements rather than specific mess



Description

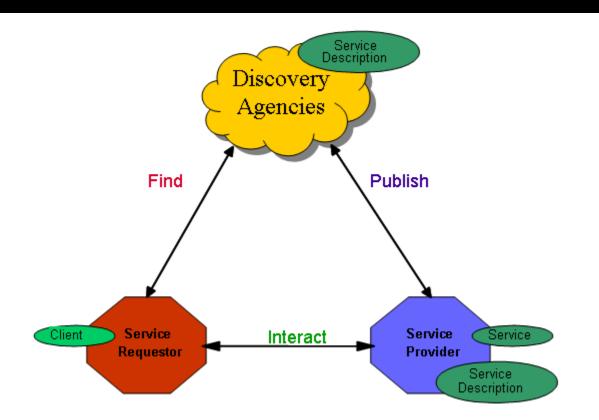


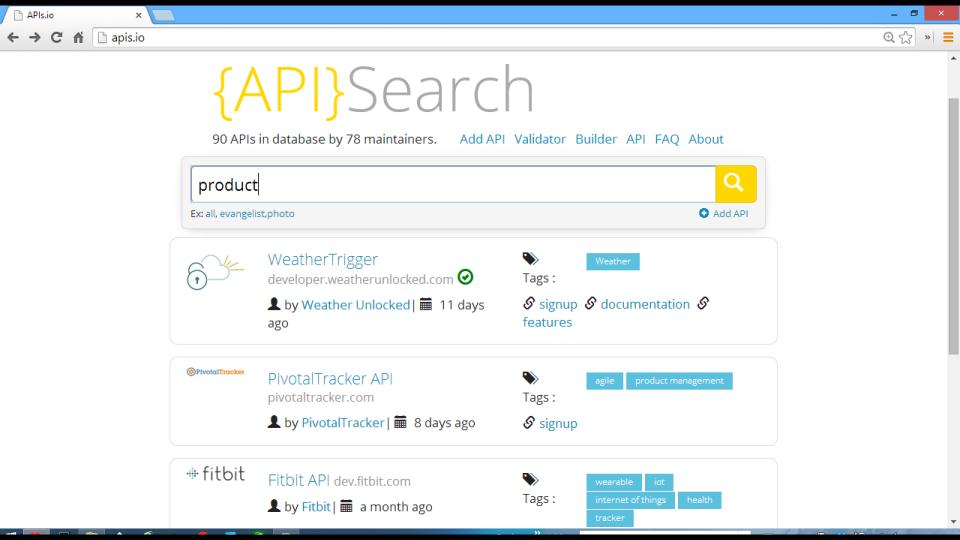
swagger editor



	27 -	purameters.					<i>A</i>				
	26 -	parameters:									
	25	nickname: "getAlbums	- 11								
	23 * 24	\$ref: "Album"									
	22 23 -	type: "array" items:				bouy		album.	Dody	InputAlbum	
	21		ist of all a	lbums for the	e user."	body		The updated	hody	To a contail become	
	20	<pre>summary: "Retrieve albums of the user." notes: "Returns a list of all albums for the user."</pre>				the album to retrieve.					
	19	method: "GET"				albumId	(required)	The ID of the album to	path	integer	
	L8 -					raiaillet	ur ruidu	Description	Туре	- гиш туре	
1	L7 -	operations:				Paramet	er Value	Description	Parameter	Data Type	
	16	path: "/albums"					Parameters				
	15 -					Response Content Type application/json +					
	13 14 -	apis:									
	12 13	- "application/json"- "application/xml"					Updates an album for the logged-in user.				
	11 -	consumes: _ "annlication/ison" Implementation Notes									
	10	- "application/xml"				TATCH	and an interpretation		0	podies un dibuill.	
	9	- "application/json"				PATCH	/albums/{albumId}		- 11	Ipdates an album.	
	8 -	produces:				DELETE	/albums/{albumId}			Deletes an album.	
	7	description: "Operations for Albums" resourcePath: "/albums"				talla man ttalla man t					
	6					GET /albums/{albumId} Retrieve a specific album.			a a specific album.		
	4 5	<pre>swaggerVersion: 1.2 basePath: "http://localhost:8002/api"</pre>					MINUTE		Cic	ate a new albam.	
	3	apiVersion: 1					/albums		Cra	eate a new album.	
	2					GET	/albums	Retrieve albums of the user.			
	1 - apil	Declarations:				•	Hide List Operations				
	New	Reset	Download ▼	Get Server ▼	Get Client ▼	alhumo	: Operations for Albums		usa	List Ossestians	

Discovery



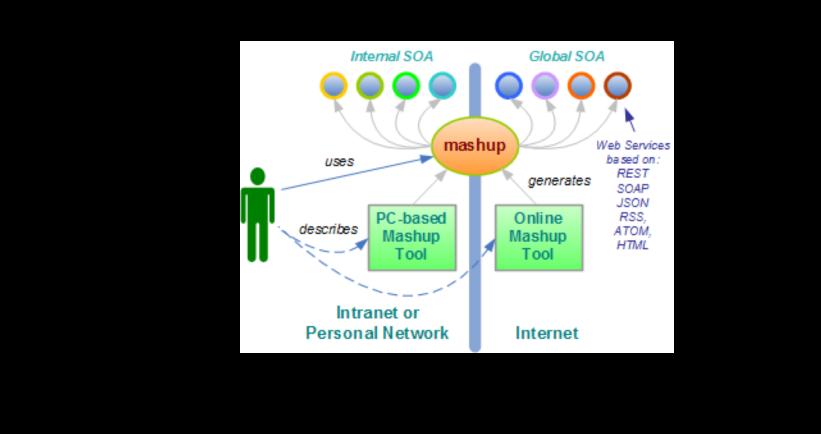


Five Not So Easy Services

- Identity
- Synchronization
- Representation
- Description
- Discovery

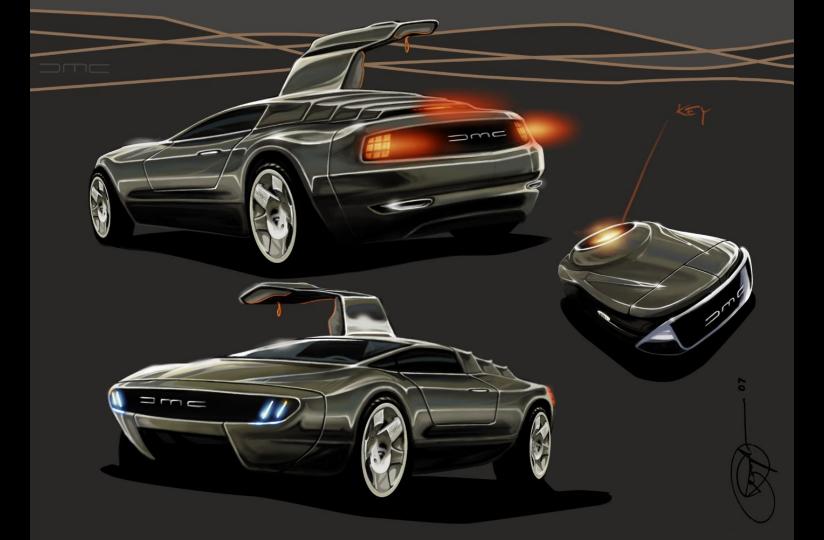
Five Not So Easy Services

- Security (Identity)
- Storage (Synchronization)
- Compatibility (Representation)
- Functionality (Description)
- Distribution (Discovery)





Recovering the Future



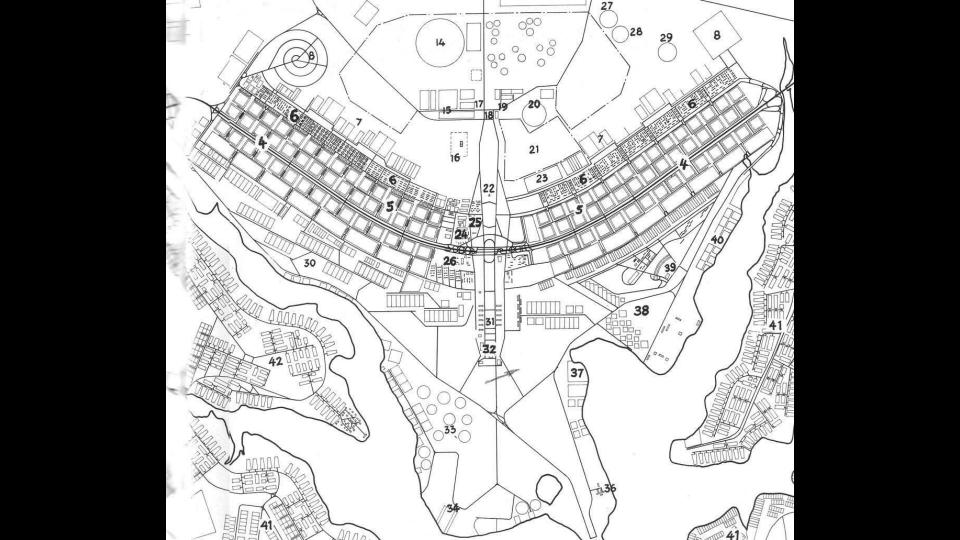




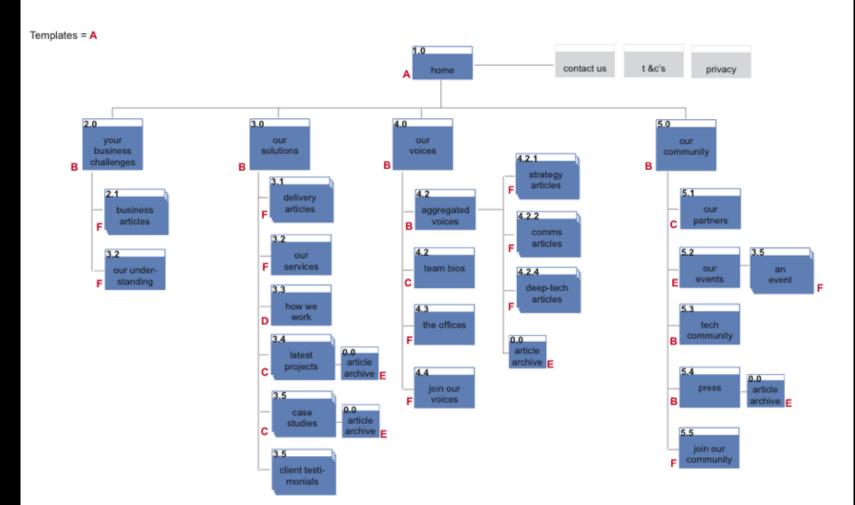


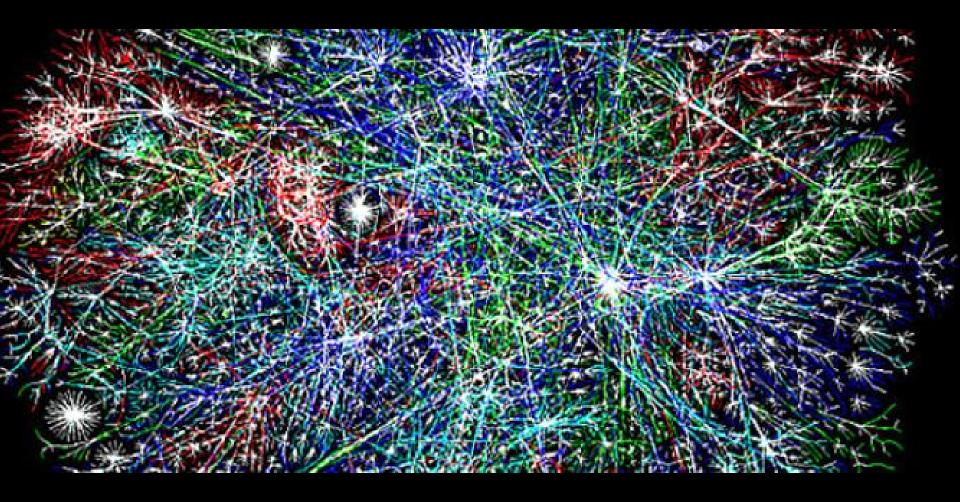






Information architecture - sitemap





What are we building?











Clients Matter, Services Don't

Recovering the Future of Services on the Web

http://g.mamund.com/qconnewyork2014-talk

Mike Amundsen, API Academy / CA @mamund