Google^m 1110

Scalable Structured Markup

Timothy Jordan May 11th, 2011



Scalable Structured Markup Putting more knowledge into your site

Timothy Jordan May 11th, 2011



#publisher #io2011

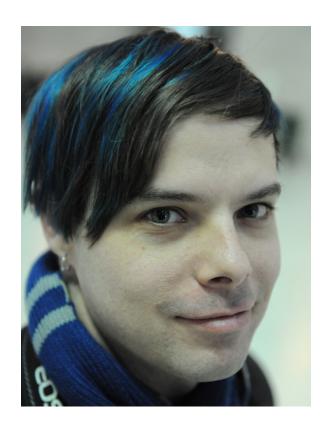
Feedback: goo.gl/SlrGz

Session: goo.gl/N8C15

Hashtags and links



Hello



Timothy Jordan Developer Advocate, Google

timothyjordan.com

@timothyjordan



Today's menu

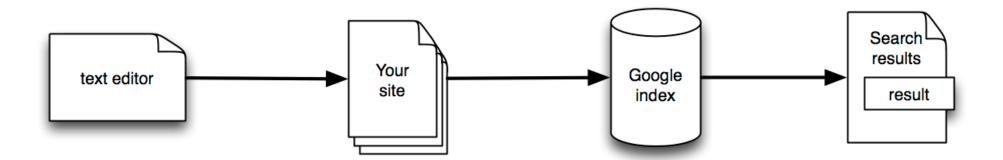
- Past
- Present
 - Rich Snippets
 - Sitemaps
- Future



The past

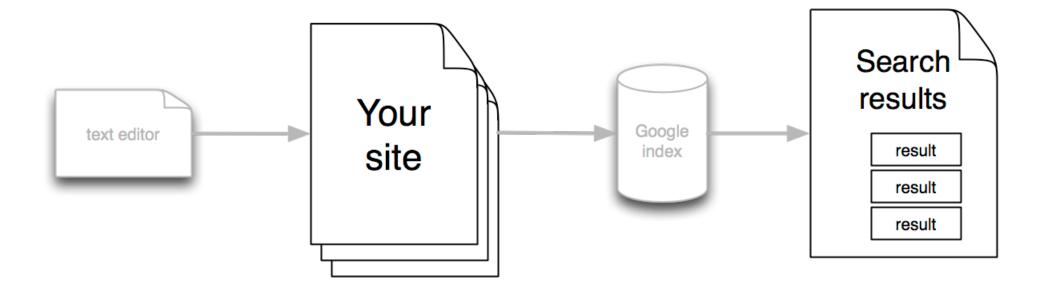


The web, circa 2000





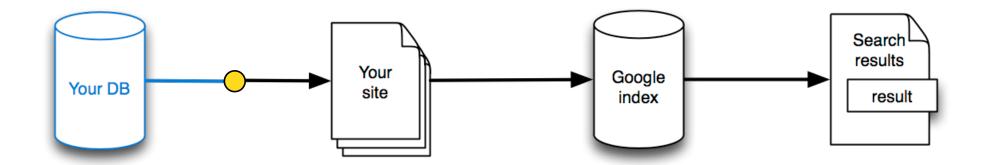
The web, circa 2000



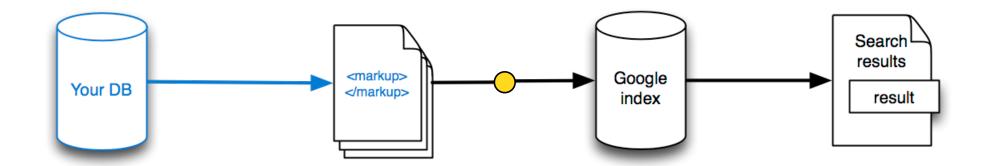


The present

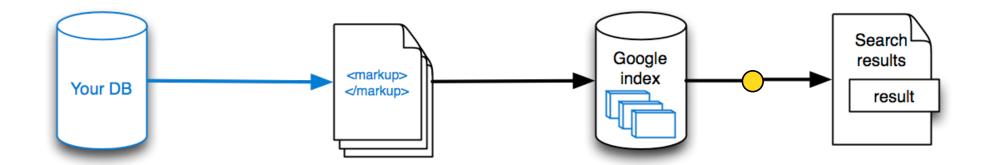




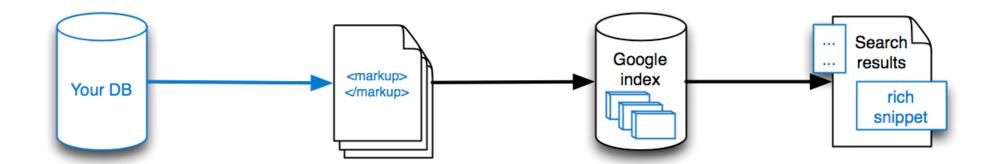














The present > Rich Snippets



Rich snippets: a timeline

| 2009/5/12 | Introducing Rich Snippets |
|------------|--|
| 2009/9/24 | Facebook Share and RDFa for videos |
| 2009/10/26 | Testing tool, better docs, extended RDFa support |
| 2010/1/22 | Events |
| 2010/3/11 | Microdata support |
| 2010/4/13 | Recipes |
| 2010/4/26 | Internationalization |
| 2010/9/2 | Testing tool improvements, breadcrumbs |
| 2010/9/22 | Local Search |
| 2010/11/2 | Shopping sites |
| 2011/2/24 | Recipe View |
| 2011/5/7 | Prayer times |





stuffing

Search

About 20,200,000 results (0.10 seconds)

Advanced search

Everything

Images

Videos

News

Shopping

Recipes

▼ More

Mountain View, CA

Change location

Ingredients Yes No turkey common sage celerv raisins olive rosemary walnuts apples

Any cook time

Less than 15 min Less than 30 min Less than 60 min

Any calories

Less than 300 cal Less than 500 cal Less than 500 cal

More search tools

► Thanksgiving Stuffing and Dressing Recipes - Allrecipes.com Q

Looking for **stuffing** and dressing recipes? Allrecipes has more than 160 trusted **stuffing** and dressing recipes complete with ratings, reviews and serving ...

Top 20 - Quick and Easy Stuffing and Dressing - Combread Stuffing and Dressing allrecipes.com/recipes/holidays-and.../stuffing-and-dressing/ - Cached - Similar

Stuffing - Wikipedia, the free encyclopedia Q

In cooking, **stuffing** or filling (specifically for poultry) is an edible substance or mixture, often a starch, used to fill a cavity in another food item. ... en.wikipedia.org/wiki/**Stuffing** - Cached - Similar

Images for stuffing - Report images











Basic Bread Stuffing - Turkey or Chicken Stuffing Recipe

★★★☆☆ 5 reviews

Basic bread **stuffing** recipe with onion, celery, butter, poultry seasoning, and bread. Bake this **stuffing** in the bird or in a greased shallow casserole.

southernfood.about.com/od/stuffingrecipes/r/bldressing5.htm - Cached - Similar

Mom's Turkey Stuffing Recipe | Simply Recipes Q



Nov 24, 2008 ... I've never tasted any turkey **stuffing** that has come close to as good as mom's. Classic Thanksgiving turkey **stuffing** recipe made with French ...

simplyrecipes.com/.../moms_turkey_stuffing/ - Cached - Similar

Cooks.com - Recipes - Homemade Stuffing Q

In frying pan \dots add Pepperidge Farm **stuffing** crumbs to desired \dots turkey or cook (bake) in oven at 350 degrees for about 30 minutes. \dots

www.cooks.com > Recipes - Cached - Similar

Stove Top Q

Even with the temperature dropping, Stove Top **Stuffing** makes every day feel warm and special. Easy Chicken Bake is a snap. Read the recipe and download a ... www.kraftbrands.com/stovetop/ - Cached

Ads

Trading at TD Ameritrade

Commission-Free Trades For 30 Days. No Maintenance Fees. Sign Up Now. tdameritrade.com

See your ad here »





stuffing

×

Search

About 20,200,000 results (0.10 seconds)

Advanced search

Everything



Videos

News

Shopping

Recipes

▼ More

Mountain View, CA Change location

► Thanksgiving Stuffing and Dressing Recipes - Allrecipes.com Q

Looking for **stuffing** and dressing recipes? Allrecipes has more than 160 trusted **stuffing** and dressing recipes complete with ratings, reviews and serving ...

Top 20 - Quick and Easy Stuffing and Dressing - Combread Stuffing and Dressing allrecipes.com/recipes/holidays-and.../stuffing-and-dressing/ - Cached - Similar

Stuffing - Wikipedia, the free encyclopedia Q

In cooking, **stuffing** or filling (specifically for poultry) is an edible substance or mixture, often a starch, used to fill a cavity in another food item. ... en.wikipedia.org/wiki/**Stuffing** - Cached - Similar

Images for stuffing - Report images









Ads

Trading at TD Ameritrade

Commission-Free Trades For 30 Days. No Maintenance Fees. Sign Up Now. tdameritrade.com

See your ad here »

Basic Bread Stuffing - Turkey or Chicken Stuffing Recipe Q

*** ↑ 5 reviews

Basic bread **stuffing** recipe with onion, celery, butter, poultry seasoning, and bread. Bake this **stuffing** in the bird or in a greased shallow casserole.

southernfood.about.com/od/stuffingrecipes/r/bldressing5.htm - Cached - Similar

Any cook time

Less than 15 min Less than 30 min

Less than 60 min

Any calories

Less than 100 cal Less than 300 cal

Less than 500 cal

More search tools



as good as mom's. Classic Thanksgiving turkey **stuffing** recipe made with French ...

simplyrecipes.com/.../moms_turkey_stuffing/ - Cached - Similar

Cooks.com - Recipes - Homemade Stuffing Q

In frying pan \dots add Pepperidge Farm **stuffing** crumbs to desired \dots turkey or cook (bake) in oven at 350 degrees for about 30 minutes. \dots

www.cooks.com > Recipes - Cached - Similar

Stove Top Q

Even with the temperature dropping, Stove Top **Stuffing** makes every day feel warm and special. Easy Chicken Bake is a snap. Read the recipe and download a ... www.kraftbrands.com/stovetop/ - Cached





drooling dog bar b q



Search

About 236,000 results (0.16 seconds)

Advanced search

Everything

Images

Videos

News

Shopping

Discussions

▼ More

Mountain View, CA

Change location

All results

Sites with images Wonder wheel Related searches Timeline

More search tools

Drooling Dog Barbq Q

Under the name **Drooling Dog Bar BQ**, we brought our own style of BBQ catering to the Foothills of Northern California. We were known for our Tri Tip, ... www.droolingdogbarbg.com/ - Cached - Similar

Drooling Dog Bar B Q - CLOSED - Auburn, CA Q

*** ↑ 26 reviews - Price range: \$\$

26 Reviews of **Drooling Dog Bar B Q** CLOSED "This used to be my favorite stop on the way to Tahoe when they were in Colfax, and I'm glad to see that BBQ is ... www.yelp.com > Restaurants > Barbeque - Cached - Similar

Drooling Dog BBQ, Colfax, CA: Reviews and maps - Yahoo! Local Q

Drooling Dog BBQ, Colfax, CA: Reviews and maps - Yahoo! Local, 530.346.8883. Get Ratings, Reviews, Photos and more on Yahoo! Local. local.yahoo.com/info-21765606-drooling-dog-bbq-colfax - Cached - Similar

Drooling Dog BBQ - Colfax, California - Yahoo! Travel Q

*** ↑ 6 reviews

Drooling Dog BBQ, Colfax - find photos, descriptions, maps, reviews, and ... travel.yahoo.com > ... > California > Colfax > Colfax Restaurants - Cached - Similar

Drooling Dog Bar BQ | Facebook Q

Drooling Dog Bar BQ moved from it's Colfax location Nov of 2009 after 7 years. We offer the finest barbecue in the area. we also cater, where we cook on ... www.facebook.com/pages/**Drooling-Dog-Bar-BQ**/290169850118 - Cached

Drooling Dog Bar B Q (212 N. Canyon Way, Colfax, CA 95713-9265 ... Q

Drooling Dog Bar BQ is located on I~80, between Sacramento and Reno at the Colfax/Grass Valley Exit (135). We are "above the fog and below ... www.famplosion.com/venues/7366-**Drooling-Dog-Bar-**B-Q - Cached

Drooling Dog BarBQ - Auburn | Urbanspoon Q

Drooling Dog BarBQ, Barbecue Restaurant in Auburn. See the menu. Reviews from critics, food blogs and fellow diners.

www.urbanspoon.com > Sacramento > Greater Sacramento > Auburn - Cached

Drooling Dog BBQ - Colfax, CA, 95713 - Citysearch

Jan 11, 2011 ... Drooling Dog BBQ in Colfax. Come to Citysearch® to get information, directions, and reviews on Drooling Dog BBQ and other Restaurants in ... sacramento citysearch.com > Colfax > Restaurants - Cached

Ads

Why does my **Dog drool**?

Causes, Symptoms and Treatment PetMD **Dog** Center www.petmd.com

See your ad here »





drooling dog bar b q

×

Search

About 236,000 results (0.16 seconds)

Advanced search



Images

Drooling Dog Barbq Q

Under the name **Drooling Dog Bar BQ**, we brought our own style of BBQ catering to the

Ads

Why does my **Dog drool**?

Treatment

Drooling Dog Bar B Q - CLOSED - Auburn, CA

**** 26 reviews - Price range: \$\$

26 Reviews of **Drooling Dog Bar B Q** CLOSED "This used to be my favorite stop on the way to Tahoe when they were in Colfax, and I'm glad to see that BBQ is ... www.yelp.com > Restaurants > Barbeque - Cached - Similar

Mountain View. CA

Change location

All results

Sites with images Wonder wheel Related searches Timeline

More search tools

Ratings, Reviews, Photos and more on Yahoo! Local.

local.yahoo.com/info-21765606-drooling-dog-bbq-colfax - Cached - Similar

Drooling Dog BBQ - Colfax, California - Yahoo! Travel Q

*** ↑ 6 reviews

Drooling Dog BBQ, Colfax - find photos, descriptions, maps, reviews, and ... travel.yahoo.com > ... > California > Colfax > Colfax Restaurants - Cached - Similar

Drooling Dog Bar BQ | Facebook Q

Drooling Dog Bar BQ moved from it's Colfax location Nov of 2009 after 7 years. We offer the finest barbecue in the area. we also cater, where we cook on ... www.facebook.com/pages/**Drooling-Dog-Bar-BQ**/290169850118 - Cached

Drooling Dog Bar B Q (212 N. Canyon Way, Colfax, CA 95713-9265 ... Q

Drooling Dog Bar BQ is located on I~80, between Sacramento and Reno at the Colfax/Grass Valley Exit (135). We are "above the fog and below ... www.famplosion.com/venues/7366-**Drooling-Dog-Bar-**B-Q - Cached

Drooling Dog BarBQ - Auburn | Urbanspoon Q

www.urbanspoon.com > Sacramento > Greater Sacramento > Auburn - Cached

Drooling Dog BBQ - Colfax, CA, 95713 - Citysearch

Jan 11, 2011 ... Drooling Dog BBQ in Colfax. Come to Citysearch® to get information, directions, and reviews on Drooling Dog BBQ and other Restaurants in ... sacramento citysearch come Colfax > Restaurants - Cached





jazz music san francisco

Search

About 8,010,000 results (0.11 seconds)

Advanced search

Everything













Mountain View, CA Change location

All results

Timeline

More search tools

▶ Jazz music San Francisco ♀

Reviews on Jazz music in San Francisco - Jazz Mafia, Savanna Jazz, Rassela's Jazz Club & Restaurant, SFJAZZ, The Turnaround Jazz Quartet & Trio. ... www.yelp.com/search?...jazz+music...San+Francisco%2C... - Cached - Similar

Jazz At Pearl's voted best Jazz Club by New York Times, SF ... Q

San Francisco Columbus Jazz Inc wins award for best Jazz Club "Jazz at Pearl's" ;. www.jazzatpearls.com/ - Cached - Similar

Cafe Claude San Francisco Live Jazz Music Q

Financial District bistro offering live Jazz on the weekends. www.cafeclaude.com/ - Cached - Similar



7 Claude Lane, San Francisco - (415) 392-3505 "Cozy bistro with live jazz Thurs-Sat makes it a great first date place." - zagat.com

yelp.com (865) - opentable.com (364) - tripadvisor.com (126)

**** 1646 reviews Place page

Welcome to BIX Restaurant Q

Bix Restaurant and Supper Club featuring live jazz, famous Martinis and daily ... On a romantic alley in San Francisco's charming Jackson Square, a lone neon sign ... Live Music From Our Bar. Since its inception in 1988, BIX has been ...

www.bixrestaurant.com/ - Cached - Similar



56 Gold Street, San Francisco - (415) 433-6300 "Overall, the experience was great from start to finish. The service was very ... " - mysears.com velp.com (827) - tripadvisor.com (142) - opentable.com (255)

**** 1583 reviews Place page

Yoshi's San Francisco Q

Yoshi's Jazz Club and Japanese Restaurant | Oakland | San Francisco www.yoshis.com/



1330 Fillmore Street, San Francisco - (415) 655-5600 "Overall, the food was good and great quality, but the portions were a tad too small. I would come back for a special occasion." yelp.com (802)

opentable.com (39) - goldstar.com (85) - tripadvisor.com (23)

食食食食食

1170 reviews Place page



Concerts in San Francisco

See our eclectic & diverse program Hear international performers www.oldfirstconcerts.org



1751 Sacramento Street (415) 474-1608 - Directions

See your ad here »

Rasselas Jazz Club And Ethiopian Cuisine Q

www.rasselasjazzclub.com/











jazz music san francisco

Search

About 8,010,000 results (0.11 seconds)

Advanced search







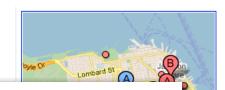
News



Reviews on Jazz music in San Francisco - Jazz Mafia, Savanna Jazz, Rassela's Jazz Club & Restaurant, SFJAZZ, The Turnaround Jazz Quartet & Trio. ...

www.yelp.com/search?...jazz+music...San+Francisco%2C... - Cached - Similar

lazz At Pearl's voted hest lazz Club by New York Times SE



Cafe Claude San Francisco Live Jazz Music Q

Financial District bistro offering live Jazz on the weekends.

www.cafeclaude.com/ - Cached - Similar





7 Claude Lane, San Francisco - (415) 392-3505 "Cozy bistro with live jazz Thurs-Sat makes it a great first date place." - zagat.com

yelp.com (865) - opentable.com (364) - tripadvisor.com (126)



From Our Bar. Since its inception in 1988, BIX has been ... www.bixrestaurant.com/ - Cached - Similar





56 Gold Street, San Francisco - (415) 433-6300 "Overall, the experience was great from start to finish. The service was very ... " - mysears.com velp.com (827) - tripadvisor.com (142) - opentable.com (255)

**** 1583 reviews Place page

www.oldfirstconcerts.org 1751 Sacramento Street (415) 474-1608 - Directions

Concerts in San Francisco

Hear international performers

See our eclectic & diverse program

See your ad here »

Yoshi's San Francisco Q

Yoshi's Jazz Club and Japanese Restaurant | Oakland | San Francisco www.yoshis.com/





1330 Fillmore Street, San Francisco - (415) 655-5600 "Overall, the food was good and great quality, but the portions were a tad too small. I would come back for a special occasion." yelp.com (802)

opentable.com (39) - goldstar.com (85) - tripadvisor.com (23)

Rasselas Jazz Club And Ethiopian Cuisine Q

www.rasselasjazzclub.com/





食食食食食

1170 reviews

Place page





The present > Rich Snippets > Markup types



RDF

- Great design
- Comes from XML tradition



RDFa

```
<div xmlns:v="http://rdf.data-vocabulary.org/#" typeof="v:Person">
    My name is <span property="v:name">Bob Smith</span>,
    but people call me <span property="v:nickname">Smithy</span>.
    Here is my homepage:
    <a href="http://www.example.com" rel="v:url">www.example.com</a>.
    I work as an <span property="v:title">engineer</span>
    at <span property="v:affiliation">ACME Corp</span>.
    My friends:
    <a href="http://darryl-blog.example.com" rel="v:friend">Darryl</a>,
    <a href="http://darryl-blog.example.com" rel="v:friend">Edna</a></div></div>
```

- Great design
- Comes from XML tradition
- Attribute maps of RDF to XHTML
- Difficult with nesting (parent > child entities)



Microformats

```
<div class="vcard">
    My name is
    <span class="fn">Bob Smith</span>,
    but people call me
    <span class="nickname">Smithy</span>.
    Here is my home page:
    <a href="http://www.example.com" class="url">www.example.com</a>.
    I work as an
    <span class="title">engineer</span> at
    <span class="org">ACME Corp</span>.
    My friends:
    <a href="http://darryl-blog.example.com" rel="friend">Darryl</a>,
    <a href="http://edna-blog.example.com" rel="friend">Edna</a></div></div>
```

- Easier to markup data in existing HTML docs
- Not as general as RDFa, so it can't express as many things



Microdata

```
<div itemscope itemtype="http://data-vocabulary.org/Person">
   My name is <span itemprop="name">Bob Smith</span>,
   but people call me <span itemprop="nickname">Smithy</span>.
   Here is my homepage:
        <a href="http://www.example.com" itemprop="url">www.example.com</a>.
        I work as an <span itemprop="title">engineer</span>
        at <span itemprop="affiliation">ACME Corp</span>.
        My friends:
        <a href="http://darryl-blog.example.com" rel="friend">Darryl</a>,
        <a href="http://edna-blog.example.com" rel="friend">Edna</a></div></div>
```

- •General expression of entities like RDFa
- Also maps more easily to HTML



The present > Rich Snippets > Example



Rich Snippets testing tool: google.com/webmasters/tools/richsnippets

Important link: Rich Snippets



Event

The Fillmore New York at Irving Plaza Concert Tickets, Schedule ...

Buy The Fillmore New York at Irving Plaza tickets and find concert schedules, venue information, and seating charts for The Fillmore New York at Irving ...

Led Zeppelin 2 Sat, Jan 23
Cheap Trick with Jason Falkner ... Mon, Jan 25
Hip Hop Karaoke Championship Fri, Jan 29

www.livenation.com/.../the-fillmore-new-york-at-irving-plaza-new-york-ny-tickets - Cached - Similar



Properties

| Property | Description |
|-------------|--|
| summary | Required. The name of the event. |
| url | Link to the event details page. Unnecessary if the URL is the same as the page containing the markup. |
| location | The location or venue of the event. Can optionally be represented by nested Organization data, or nested Address data. Recommended (unless the page containing the markup is a page about the venue, and the location is the same for every event.) |
| description | A description of the event. |
| startDate | Required. The starting date and time of the event in ISO date format. |
| endDate | The ending date and time of the event in ISO date format. |
| duration | The duration of the event in ISO duration format. |
| eventType | The category of the event, such as "Festival", "Concert", "Lecture". |
| geo | Specifies the geographical coordinates of the location. Includes two elements: latitude andlongitude. Optional. |
| photo | A link to a photo or image related to the event. |



Without markup

```
<div>
    <a href="http://structured-markup.appspot.com/spinaltap-nomarkup.html">Spinal Tap</a><br/>
    After their highly-publicized search for a new drummer,
    Spinal Tap kicks off their latest comeback tour with a San
    Francisco show.<br/>
    When: Oct 15, 7:00PM-Oct 15, 9:00PM<br/>
    Where: Warfield Theatre, San Francisco<br/>
    Category: Concert
</div>
```



Required properties

| Property | Description |
|-------------|---|
| summary | Required. The name of the event. |
| url | Link to the event details page. Unnecessary if the URL is the same as the page containing the markup. |
| location | The location or venue of the event. Can optionally be represented by nested Organization data, or nested Address data. Recommended (unless the page containing the markup is a page about the venue, and the location is the same for every event.) |
| description | A description of the event. |
| startDate | Required. The starting date and time of the event in ISO date format. |
| endDate | The ending date and time of the event in ISO date format. |
| duration | The duration of the event in ISO duration format. |
| eventType | The category of the event, such as "Festival", "Concert", "Lecture". |
| geo | Specifies the geographical coordinates of the location. Includes two elements: latitude andlongitude. Optional. |
| photo | A link to a photo or image related to the event. |



Required markup

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
  <a href="http://structured-markup.appspot.com/spinaltap-regmarkup.html">
    <span itemprop="summary">Spinal Tap</span>
  </a><br />
  After their highly-publicized search for a new drummer,
  Spinal Tap kicks off their latest comeback tour with a San
  Francisco show. <br />
  When:
  <time itemprop="startDate" datetime="2015-10-15T19:00-08:00">Oct 15, 7:00PM</time>-
  Oct 15, 9:00PM<br />
  Where:
  <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">Warfield Theatre</span>, San Francisco
  </span><br />
 Category: Concert
</div>
```



Required markup

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
  <a href="http://structured-markup.appspot.com/spinaltap-regmarkup.html">
    <span itemprop="summary">Spinal Tap</span>
  </a><br />
  After their highly-publicized search for a new drummer,
  Spinal Tap kicks off their latest comeback tour with a San
  Francisco show. <br />
  When:
  <time itemprop="startDate" datetime="2015-10-15T19:00-08:00">Oct 15, 7:00PM</time>-
  Oct 15, 9:00PM<br />
  Where:
  <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">Warfield Theatre</span>, San Francisco
  </span><br />
 Category: Concert
</div>
```



Required markup

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
  <a href="http://structured-markup.appspot.com/spinaltap-regmarkup.html">
    <span itemprop="summary">Spinal Tap</span>
  </a><br />
  After their highly-publicized search for a new drummer,
  Spinal Tap kicks off their latest comeback tour with a San
  Francisco show. <br />
  When:
  <time itemprop="startDate" datetime="2015-10-15T19:00-08:00">Oct 15, 7:00PM</time>-
  Oct 15, 9:00PM<br />
  Where:
  <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">Warfield Theatre</span>, San Francisco
  </span><br />
 Category: Concert
</div>
```



Required markup

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
  <a href="http://structured-markup.appspot.com/spinaltap-regmarkup.html">
    <span itemprop="summary">Spinal Tap</span>
  </a><br />
  After their highly-publicized search for a new drummer,
  Spinal Tap kicks off their latest comeback tour with a San
  Francisco show. <br />
  When:
  <time itemprop="startDate" datetime="2015-10-15T19:00-08:00">Oct 15, 7:00PM</time>-
  Oct 15, 9:00PM<br />
  Where:
  <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">Warfield Theatre</span>, San Francisco
  </span><br />
 Category: Concert
</div>
```



Required markup

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
  <a href="http://structured-markup.appspot.com/spinaltap-regmarkup.html">
    <span itemprop="summary">Spinal Tap</span>
  </a><br />
  After their highly-publicized search for a new drummer,
  Spinal Tap kicks off their latest comeback tour with a San
  Francisco show. <br />
  When:
  <time itemprop="startDate" datetime="2015-10-15T19:00-08:00">Oct 15, 7:00PM</time>-
  Oct 15, 9:00PM<br />
  Where:
  <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">Warfield Theatre</span>, San Francisco
  </span><br />
 Category: Concert
</div>
```



More properties

| Property | Description | | |
|-------------|--|--|--|
| summary | Required. The name of the event. | | |
| url | Link to the event details page. Unnecessary if the URL is the same as the page containing the markup. | | |
| location | The location or venue of the event. Can optionally be represented by nested Organization data, or nested Address data. Recommended (unless the page containing the markup is a page about the venue, and the location is the same for every event.) | | |
| description | A description of the event. | | |
| startDate | Required. The starting date and time of the event in ISO date format. | | |
| endDate | The ending date and time of the event in ISO date format. | | |
| duration | The duration of the event in ISO duration format. | | |
| eventType | The category of the event, such as "Festival", "Concert", "Lecture". | | |
| geo | Specifies the geographical coordinates of the location. Includes two elements: latitude andlongitude. Optional. | | |
| photo | A link to a photo or image related to the event. | | |



More markup

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
 <a href="http://structured-markup.appspot.com/spinaltap-moremarkup.html" itemprop="url">
   <span itemprop="summary">Spinal Tap</span>
  </a><br />
 <span itemprop="description">After their highly-publicized search for a new drummer,
    Spinal Tap kicks off their latest comeback tour with a San
   Francisco show./>
  When:
 <time itemprop="startDate" datetime="2015-10-15T19:00-08:00">Oct 15, 7:00PM</time>-
 <time itemprop="endDate" datetime="2015-10-15T19:00-08:00">Oct 15, 9:00PM</time><br />
  Where:
 <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">Warfield Theatre</span>,
     <span itemprop="address" itemscope itemtype="http://data-vocabulary.org/Address">
      <span itemprop="locality">San Francisco</span>
    </span>
 </span><br />
 Category: <span itemprop="eventType">Concert</span><br />
</div>
```

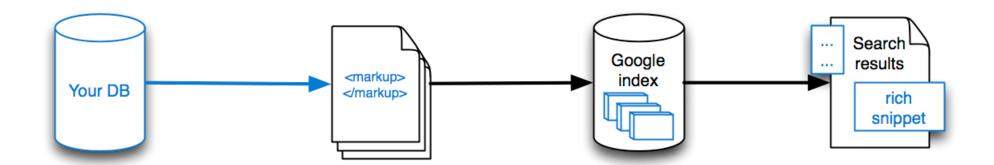
More markup

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
 <a href="http://structured-markup.appspot.com/spinaltap-moremarkup.html" itemprop="url">
   <span itemprop="summary">Spinal Tap</span>
  </a><br />
 <span itemprop="description">After their highly-publicized search for a new drummer,
    Spinal Tap kicks off their latest comeback tour with a San
   Francisco show./>
  When:
 <time itemprop="startDate" datetime="2015-10-15T19:00-08:00">Oct 15, 7:00PM</time>-
 <time itemprop="endDate" datetime="2015-10-15T19:00-08:00">Oct 15, 9:00PM</time><br />
  Where:
 <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">Warfield Theatre</span>,
    <span itemprop="address" itemscope itemtype="http://data-vocabulary.org/Address">
      <span itemprop="locality">San Francisco</span>
    </span>
 </span><br />
 Category: <span itemprop="eventType">Concert</span><br />
</div>
                                                                                    Google 11 O
```

The present > Rich Snippets > Scaling

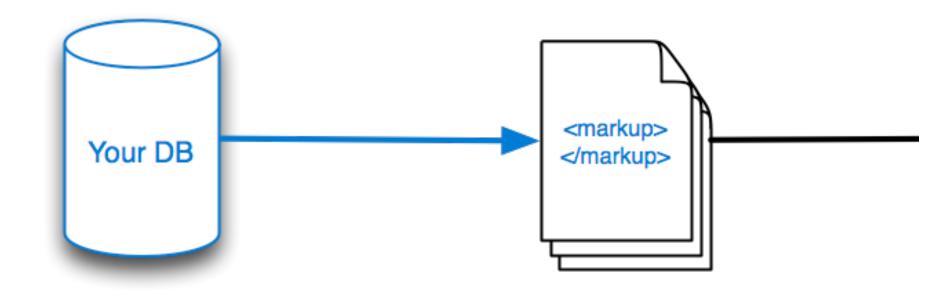


Scaling





Easy with a DB





Scaling: The DB

Event

| id | summary | location | startDate |
|-----|------------|------------------|------------------------|
| 343 | | | |
| 344 | | | |
| 345 | Spinal Tap | Warfield Theatre | 2015-10-15T19:00-08:00 |
| 346 | | | |
| 347 | | | |
| | | | |



Scaling: The template

```
<div itemscope itemtype="http://data-vocabulary.org/Event">
  <a href="http://structured-markup.appspot.com/mtest/spinaltap-regmarkup.html" itemprop="url">
   <span itemprop="summary">{summary}</span>
  </a><br />
  After their highly-publicized search for a new drummer,
  Spinal Tap kicks off their latest comeback tour with a San
  Francisco show. <br />
  When:
  <time itemprop="startDate" datetime="{startDate}">{startDateReadable}</time>-
  Oct 15, 9:00PM<br />
  Where:
  <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">{location}</span>
  </span><br />
 Category: Concert
</div>
```



More markup

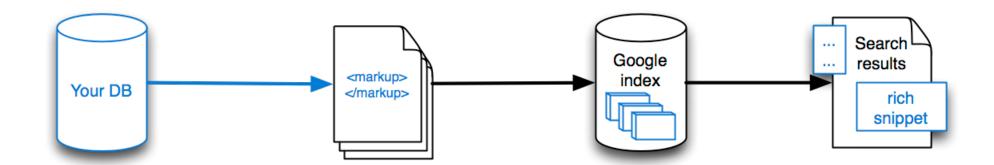
```
<div itemscope itemtype="http://data-vocabulary.org/Event">
  <a href="{url}" itemprop="url">
    <span itemprop="summary">{summary}</span>
  </a><br />
  <span itemprop="description">{description}</span><br />
  When:
  <time itemprop="startDate" datetime="{startDate}">{startDateReadble}</time>-
  <time itemprop="endDate" datetime="{endDate}">{endDateReadble}</time><br />
  Where:
  <span itemprop="location" itemscope itemtype="http://data-vocabulary.org/Organization">
     <span itemprop="name">{locationName}</span>,
     <span itemprop="address" itemscope itemtype="http://data-vocabulary.org/Address">
       <span itemprop="locality">{locationLocality}</span>
    </span>
  </span><br />
 Category: <span itemprop="eventType">{eventType}</span><br />
</div>
```



The present > Sitemaps

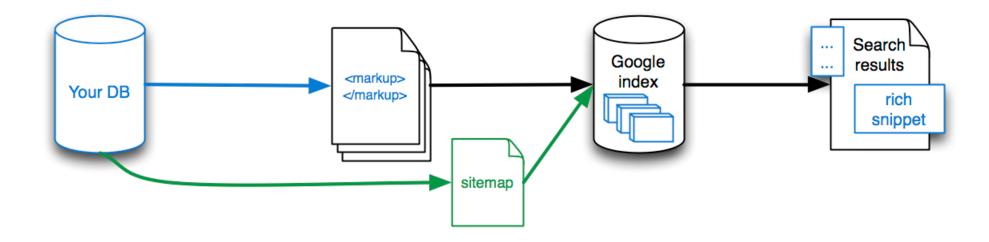


The web, with Rich Snippets



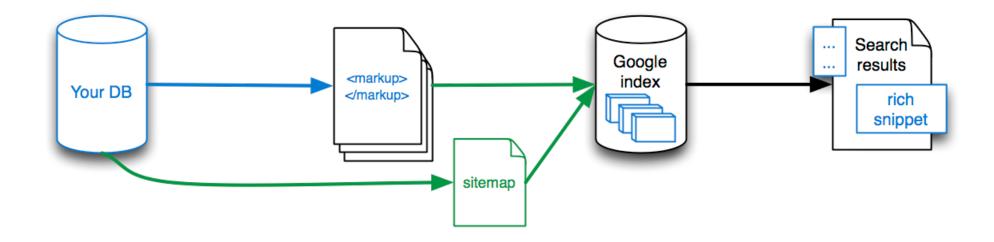


The web, with Rich Snippets and Sitemaps





The web, with Rich Snippets and Sitemaps





The present > Sitemaps > Example



sitemaps.org

google.com/webmasters/tools

Important links: Sitemaps



Tags

| Property | | Description |
|---|----------|--|
| <urlset></urlset> | required | Encapsulates the file and references the current protocol standard. |
| <url></url> | required | Parent tag for each URL entry. The remaining tags are children of this tag. |
| <loc></loc> | required | URL of the page. This URL must begin with the protocol (such as http) and end with a trailing slash, if your web server requires it. This value must be less than 2,048 characters. |
| <lastmod></lastmod> | optional | The date of last modification of the file. This date should be in <u>W3C Datetime</u> format. This format allows you to omit the time portion, if desired, and use YYYY-MM-DD. |
| <changefreq></changefreq> | optional | How frequently the page is likely to change. This value provides general information to search engines and may not correlate exactly to how often they crawl the page. Valid values are: always, hourly, daily, weekly, monthly, yearly, never |
| <pre><pre><pre><pre>ority></pre></pre></pre></pre> | optional | The priority of this URL relative to other URLs on your site. Valid values range from 0.0 to 1.0. This value does not affect how your pages are compared to pages on other sites—it only lets the search engines know which pages you deem most important for the crawlers. The default priority of a page is 0.5. |



Example



Example

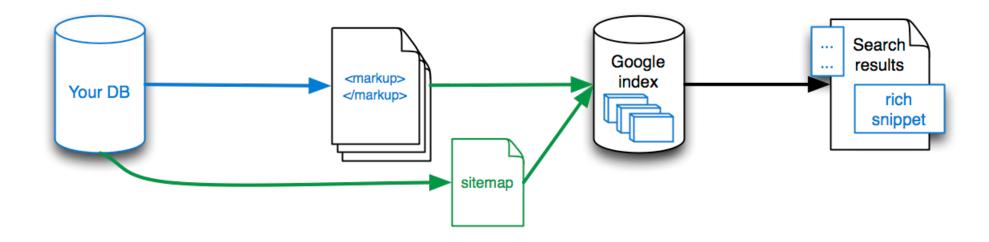
```
<?xml version="1.0" encoding="UTF-8"?>
<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">
  <ur1>
    <loc>http://structured-markup.appspot.com/</loc>
    <lastmod>2011-05-07</lastmod>
    <changefreq>weekly</changefreq>
    <priority>0.8</priority>
  </ur>
  <url>
    <loc>http://structured-markup.appspot.com/spinaltap-nomarkup.html</loc>
    <lastmod>2011-05-07</lastmod>
    <changefreq>monthly</changefreq>
    <priority>0.7</priority>
  </url>
  <ur1>
    <loc>http://structured-markup.appspot.com/mtest/spinaltap-reqmarkup.html</loc>
    <lastmod>2011-05-07</lastmod>
    <changefreq>monthly</changefreq>
    <priority>0.7</priority>
  </url>
</urlset>
```



Introducing: Sitemaps via PubSubHubbub

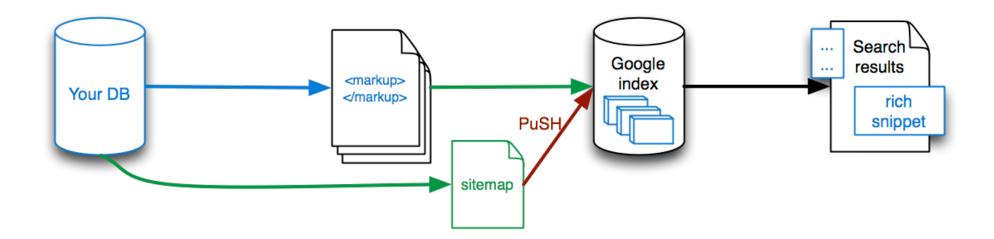


The web, with Rich Snippets and Sitemaps



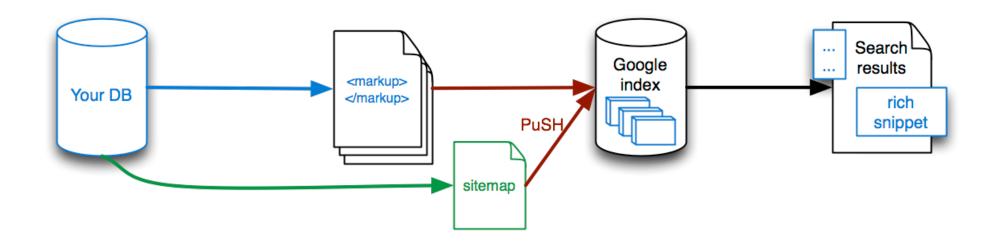


The web, with Rich Snippets, and PuSH Sitemaps





The web, with Rich Snippets, and PuSH Sitemaps







code.google.com/p/pubsubhubbub

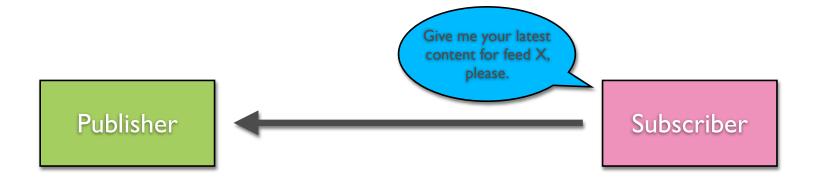


Publisher



Subscriber





1. Subscriber gets Publisher's feed. The feed contains a link to the Hub.

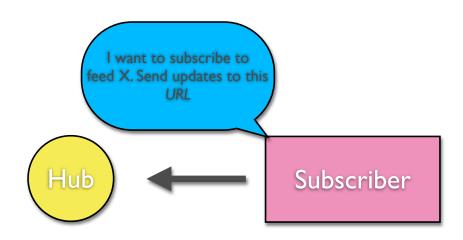




1. Subscriber gets Publisher's feed. The feed contains a link to the Hub.



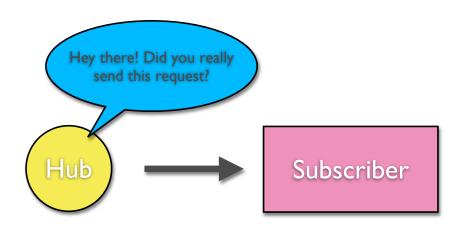
Publisher



2. Subscriber POSTs subscription request to the Hub. The request contains the URL where the Hub should POST new updates to the Subscriber.



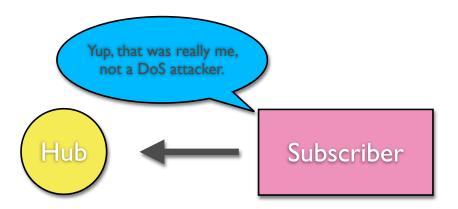
Publisher



3. Hub hits the URL to verify the request was authentic; Subscriber responds with confirmation to the Hub.

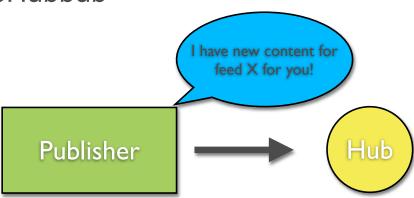


Publisher



3. Hub hits the URL to verify the request was authentic; Subscriber responds with confirmation to the Hub.

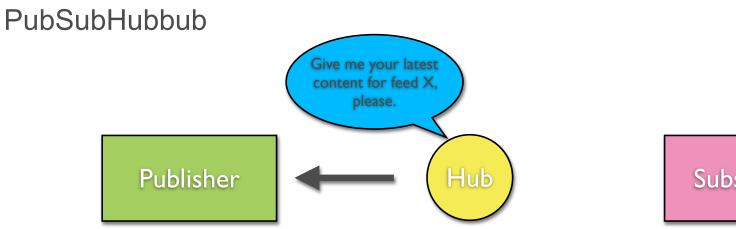




Subscriber

4. a) Publisher notifies Hub about updates by POSTing feed URLs to the Hub; Hub pulls the feed again to find new entries.

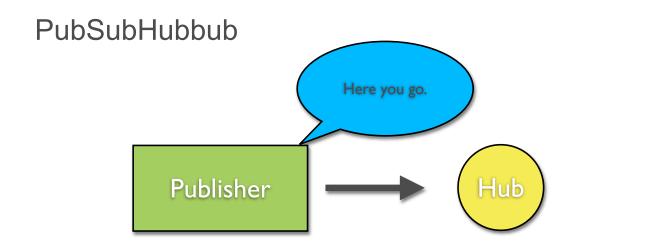




Subscriber

4. a) Publisher notifies Hub about updates by POSTing feed URLs to the Hub; Hub pulls the feed again to find new entries.

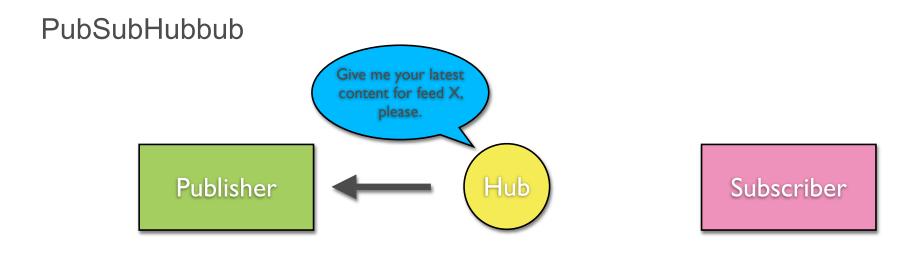




Subscriber

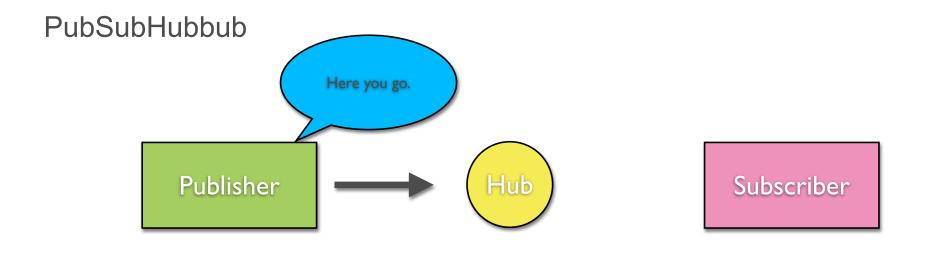
4. a) Publisher notifies Hub about updates by POSTing feed URLs to the Hub; Hub pulls the feed again to find new entries.





4. b) If the Publisher does not inform the Hub, the Hub will periodically poll the Publisher's feed for new updates.

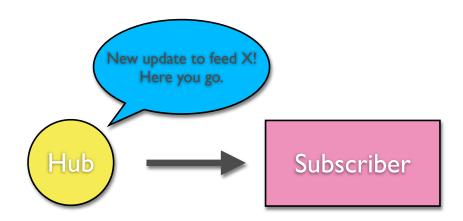




4. b) If the Publisher does not inform the Hub, the Hub will periodically poll the Publisher's feed for new updates.

PubSubHubbub

Publisher

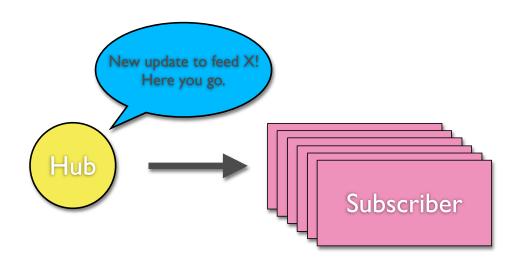


5. When Hub receives new update to feed X, it POSTs the update to the Subscriber's endpoint URL.



PubSubHubbub

Publisher



6. If feed X has multiple subscribers, the Hub sends updates to all of them. This reduces load on the Publisher.



Atom feed

```
<feed xmlns="http://www.w3.org/2005/Atom">
<id>tag:blogger.com, 1999:blog-994926592631811436</id>
<updated>2011-05-09T21:13:36.450-07:00</updated>
<title type="text">Structured Markup</title>
<link rel="http://schemas.google.com/q/2005#feed" type="application/atom+xml"</pre>
 href="http://structured-markup.bloqspot.com/feeds/posts/default"/>
<link rel="hub" href="http://pubsubhubbub.appspot.com/"/>
<author>
 <name>Timothy Jordan</name>
</author>
<entry>
  <id>taq:blogger.com,1999:blog-994926592631811436.post-162301095295322218</id>
  <published>2011-05-09T21:13:00.001-07:00
  <updated>2011-05-09T21:13:36.458-07:00</updated>
  <title type="text">More testing</title>
  <content type="html">...</content>
  <author>
    <name>Timothy Jordan</name>
    <uri>http://www.blogger.com/profile/06704697508101846295</uri>
    <email>noreply@blogger.com</email>
  </author>
</entry>
```



Atom feed

```
<feed xmlns="http://www.w3.org/2005/Atom">
 <id>taq:blogger.com, 1999:blog-994926592631811436</id>
 <updated>2011-05-09T21:13:36.450-07:00</updated>
 <title type="text">Structured Markup</title>
 <link rel="http://schemas.google.com/g/2005#feed" type="application/atom+xml"</pre>
   href="http://structured-markup.blogspot.com/feeds/posts/default"/>
 <link rel="hub" href="http://pubsubhubbub.appspot.com/"/>
 <author>
    <name>Timothy Jordan</name>
 </author>
 <entry>
    <id>tag:blogger.com,1999:blog-994926592631811436.post-162301095295322218</id>
    <published>2011-05-09T21:13:00.001-07:00
    <updated>2011-05-09T21:13:36.458-07:00</updated>
    <title type="text">More testing</title>
    <content type="html">...</content>
    <author>
      <name>Timothy Jordan
     <uri>http://www.blogger.com/profile/06704697508101846295</uri>
      <email>noreply@blogger.com</email>
    </author>
 </entry>
```



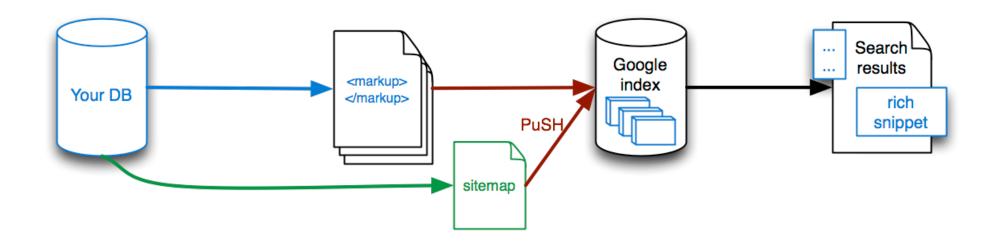
Sitemaps via PubSubHubbub

- Create a sitemap feed (RSS, mRSS, and Atom 1.0)
- Use a (PubSubHubbub) hub
- Add the link in Webmaster Tools

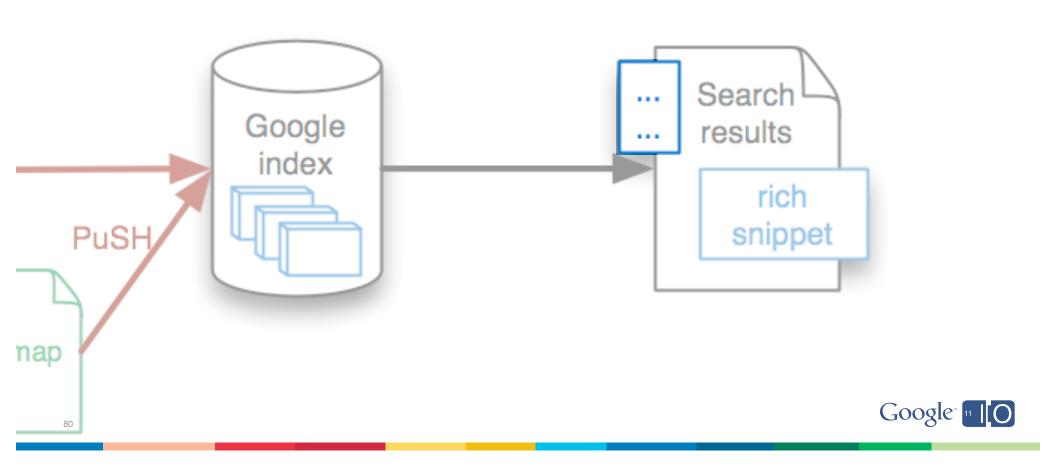


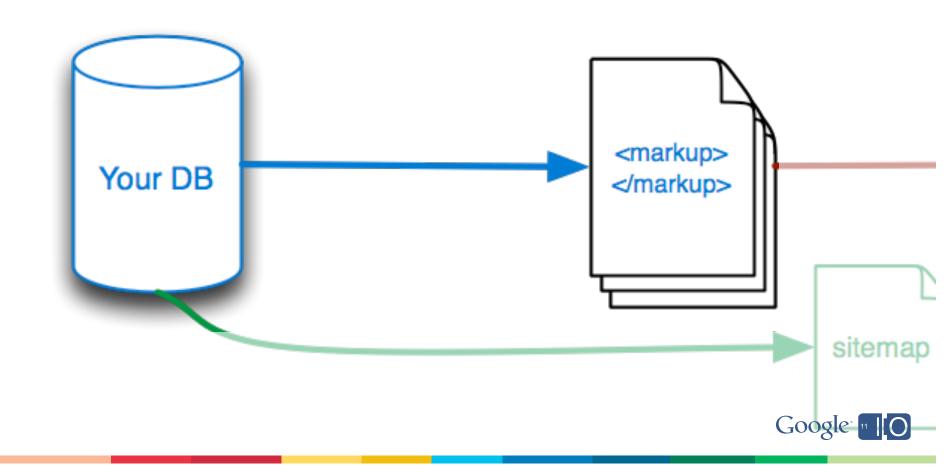
The future

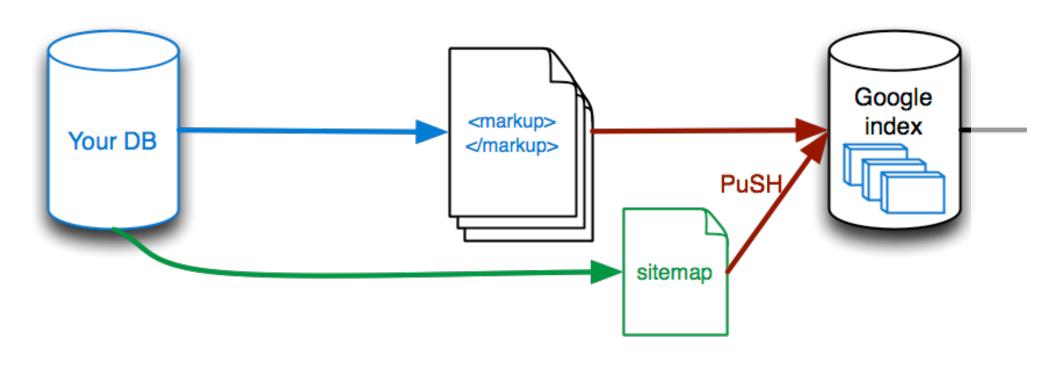


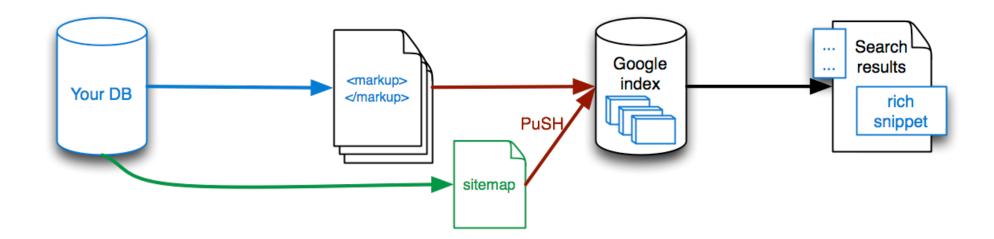














Summary



Summary

- Markup is easy
 - Don't add new data
 - Just structure what's already there
 - Scaling is basic, only requires templating and field-level db
- Markup is good
 - Rich Snippets
 - Vertical searches
- Use sitemaps
 - Make sure Google knows about all your pages so they can be crawled
 - Make sure Google knows when your pages have changed, so they can be updated



Questions and Answers

Hashtags: #publisher #io2011

Feedback: goo.gl/SIrGz Session: goo.gl/N8C15



Google^m 1110