



JSON, Speed, and User Groups

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PostgresOpen 2013

First, Something Completely Different

```
CREATE UNLOGGED TABLE jsons (  
    data json  
);
```

```
INSERT INTO jsons  
SELECT  
    row_to_json(ROW(x, x + 2, x + 3))  
FROM generate_series(1,1000000) x;
```

Is It Fast?

```
EXPLAIN ANALYZE
SELECT *
FROM jsons
WHERE
    json_extract_path_text(data, 'f2') = '311';
```

```
Seq Scan on jsons
  Filter: (json_extract_path_text(data, VARIADIC '{f2}'::text[]) =
    '311'::text)
  Rows Removed by Filter: 999999
```



Total runtime: **970.356 ms**

But...

```
CREATE INDEX jsons_data_idx ON jsons
  (json_extract_path_text(data, 'f2'));
```

```
EXPLAIN ANALYZE
```

```
SELECT *
```

```
FROM jsons
```

```
WHERE
```

```
  json_extract_path_text(data, 'f2') = '311';
```

```
Bitmap Heap Scan on jsons
```

```
  Recheck Cond: (json_extract_path_text(data, VARIADIC
    '{f2}'::text[]) = '311'::text)
```

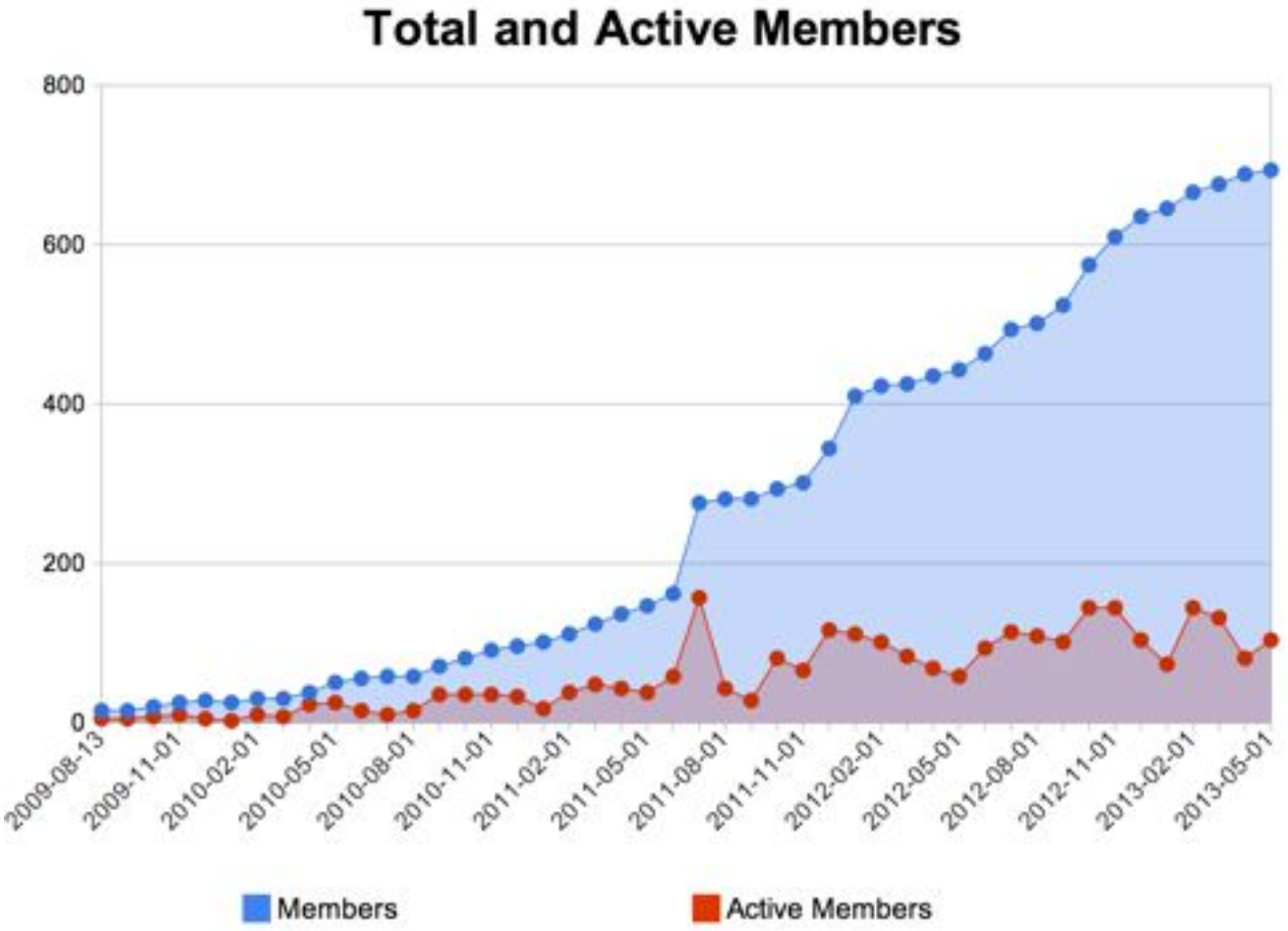
```
  -> Bitmap Index Scan on jsons_data_idx
```

```
    Index Cond: (json_extract_path_text(data, VARIADIC
      '{f2}'::text[]) = '311'::text)
```



Total runtime: **0.126 ms**

New York City PostgreSQL User Group



Step 0

The PostgreSQL community is proud to have many local chapters that advocate and educate users about PostgreSQL. Below is a list of PostgreSQL User Groups (PUGs) sorted by country and local area. If you would like to start a PostgreSQL User Group, please join the pgsql-announce@postgresql.org and describe the PUG that you want to create.

If a PUG already exists in your area, follow the URLs below to find out how to attend and participate.

Local User Groups

Argentina

- **Argentina:** Argentina PostgreSQL Users Group ([website](#)) ([mailing list](#))

Australia

- **Sydney:** Sydney PostgreSQL User Group ([website](#)) ([mailing list](#))

Brazil

- **Brazil:** PostgreSQL Brazil ([website](#)) ([mailing list](#))

Cuba

- **La Habana:** PostgreSQL Cuba ([website](#)) ([mailing list](#))

Ecuador

- **Ecuador:** Ecuador PostgreSQL User Group ([mailing list](#))

France

- **France:** PostgreSQL.fr ([website](#)) ([mailing list](#))

Germany

- **Germany:** PostgreSQL Usergroup Germany ([website](#)) ([mailing list](#))

India

- **Pune:** India PostgreSQL User Group ([website](#))

Ireland

- **Dublin:** PostgreSQL User Group Ireland ([website](#)) ([mailing list](#))

Italy

- **Italy:** L'associazione Italian PostgreSQL Users Group ([website](#)) ([mailing list](#))

Japan

- **Tokyo:** Japan PostgreSQL User Group ([website](#)) ([mailing list](#))

Spain

- **Spain:** PostgreSQL-es ([website](#)) ([mailing list](#))

Sweden

- **Stockholm:** Stockholm PostgreSQL User Group ([mailing list](#))

United Kingdom

- **London:** London PostgreSQL Group ([website](#)) ([mailing list](#))

United States

- **Austin:** Austin Postgres User Group ([website](#)) ([mailing list](#))
- **Baltimore / Washington, D.C.:** Baltimore / Washington PostgreSQL User Group ([website](#)) ([mailing list](#))
- **Boston:** Boston PostgreSQL User group ([website](#)) ([mailing list](#))
- **Chicago:** Chicago PostgreSQL User Group ([website](#))
- **New York City:** NYC PostgreSQL User Group ([website](#)) ([mailing list](#))
- **Philadelphia:** Philadelphia PostgreSQL User Group ([website](#)) ([mailing list](#))
- **Portland, OR:** Portland Postgres Users Group ([website](#)) ([mailing list](#))
- **San Diego:** San Diego PostgreSQL User Group ([website](#)) ([mailing list](#))
- **San Francisco:** San Francisco PostgreSQL User Group ([website](#)) ([mailing list](#))

<http://www.postgresql.org/community/user-groups/>

Step 1



Step 2



Step 2a

- PostgreSQL.eu
- PostgreSQL.us
- PostgreSQL.jp
- PostgreSQL.fr

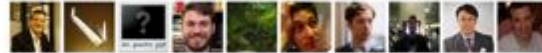
Step 3



Step 4

July 12, 2012 · 6:30 PM

Postgres-XC: Write Scalable Database Cluster



31 Database Users | ★★★★★

Having scalability issues? Attracted to the idea of NoSQL but worried about consistency and having to rewrite your SQL-based applications? Postgres-XC version 1.0 was... [LEARN MORE](#)

June 19, 2012 · 6:30 PM

PostGIS: A Gentle Introduction

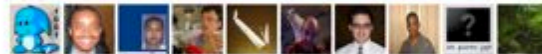


72 Database Users | ★★★★★

Have you heard that PostgreSQL is the best database for geospatial data? In a market with several proprietary commercial alternatives, users around the world choose... [LEARN MORE](#)

May 7, 2012 · 6:30 PM

Database Hardware Selection



40 Database Users | ★★★★★

Database servers have hardware requirements different from other infrastructure software, specifically unique demands on I/O and memory. Join PostgreSQL core committer... [LEARN MORE](#)

Step 4a: Ideas

- What's new in Postgres
- What you can do in Postgres
- How \$ORGANIZATION uses Postgres
- \$PGEXTENSION+ Postgres
- \$NOSQL + Postgres
- Why \$ORGANIZATION moved to Postgres
- Why \$ORGANIZATION moved away from Postgres

Step 4b



Step 5

Schedule

Below is the schedule of talks for PGDay NYC 2013 on March 22nd, 2013 at the ACE Hotel at 20 W 29 St New York, NY 10001

PGDay NYC 2013 will take place all day and includes lunch and a complimentary networking reception with open bar and food at the end of the day.

Tickets for PGDay NYC 2013 can be purchased on the [registration](#) page.

If you have any questions, please contact us at contact@nycpug.org

Start	End	Liberty Hall A	Liberty Hall C
8:30 a.m.	9 a.m.	Registration	
9 a.m.	9:20 a.m.	Opening NYC PostgreSQL User Group	
9:20 a.m.	9:50 a.m.	Keynote Keith Alsheimer	
10 a.m.	10:50 a.m.	Deploying PostgreSQL on Amazon EC2 :: A Case Study Denish Patel	CTEs: Past, Present and Future David Fetter
11 a.m.	11:50 a.m.	Postgres Plus Cloud Database Dave Page	Embracing the Web with JSON and PLV8 Will Leinweber
noon	12:20 p.m.	Leveraging the power and flexibility of SQL everywhere using the CartoDB platform Andrew W Hill	A Postgres-XC Distributed Key-Value Store Mason Sharp

Local => Global

- PGConf.eu 2012: 290 attendees
- PGCon 2013: 240 attendees

Which Means...



Thank You

- Jonathan S. Katz
- @jkatz05