



PGDay
FOSDEM

FOSDEM'20

FIBONACCI SPIRALS & 21 WAYS TO CONTRIBUTE TO POSTGRES—BEYOND CODE

Claire Giordano

@clairegiordano • @citusdata • @microsoft



Leonardo Pisano Bigollo

(1170–1240)

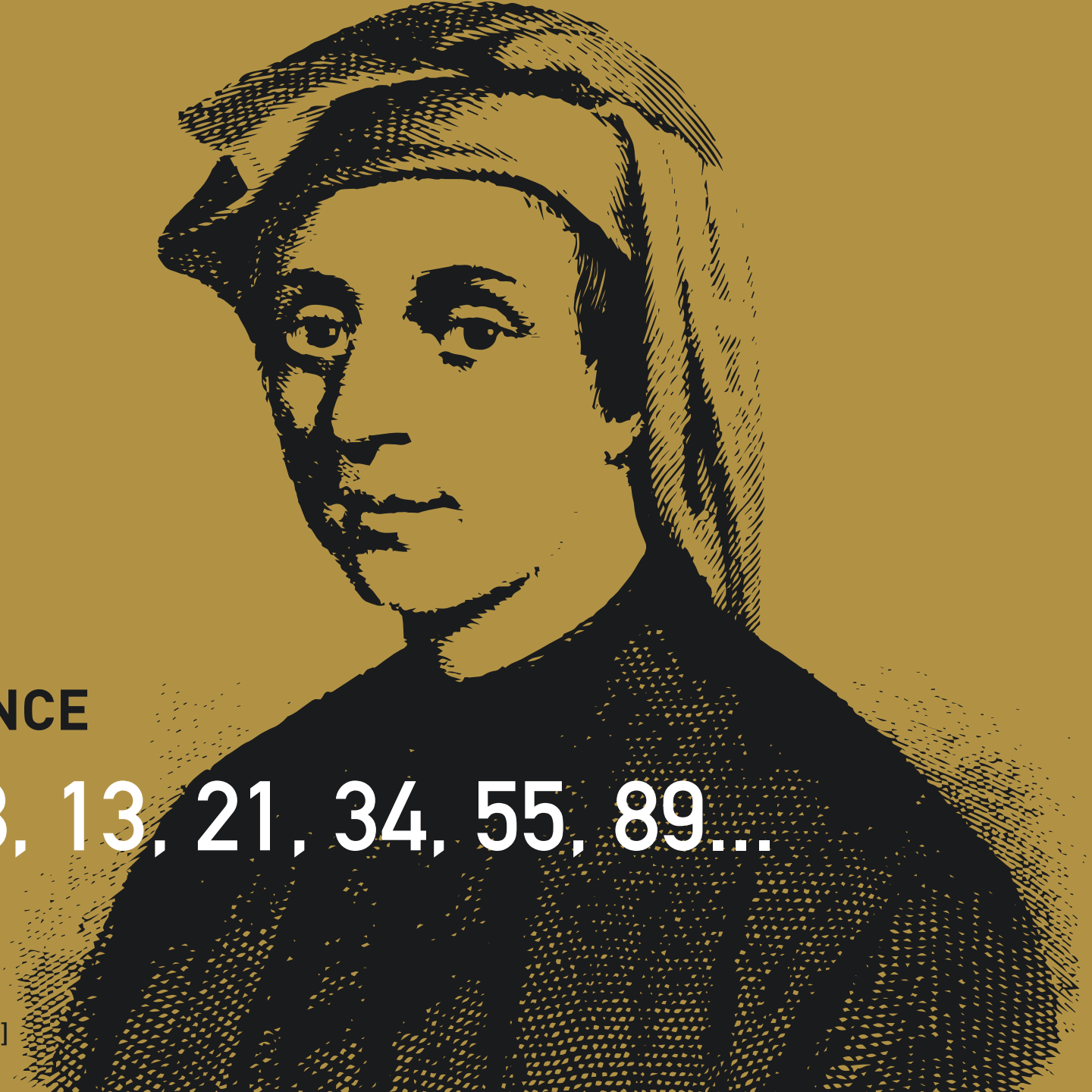


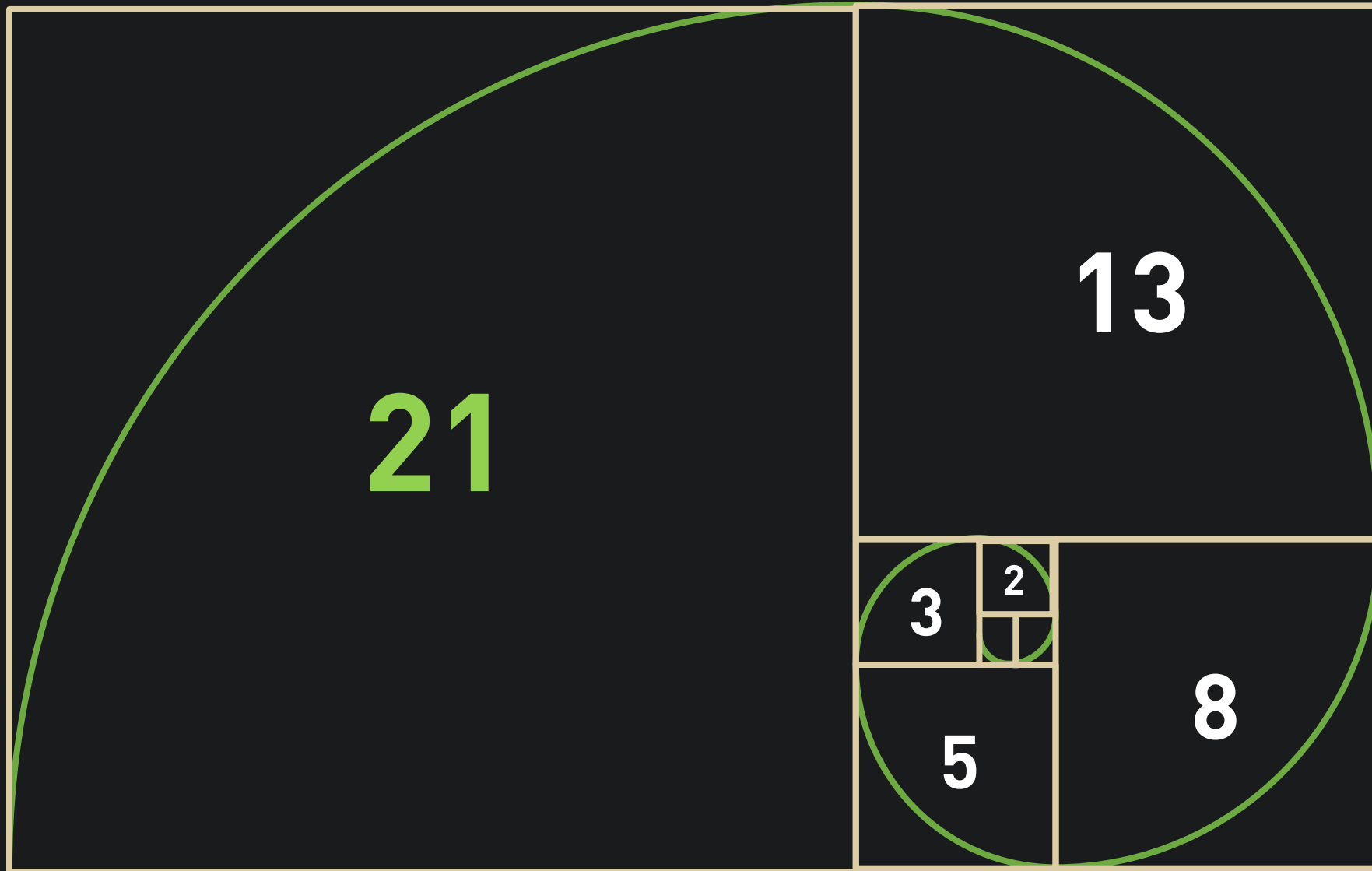
Source: Wikimedia Commons [Public Domain]

FIBONACCI SEQUENCE

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89...

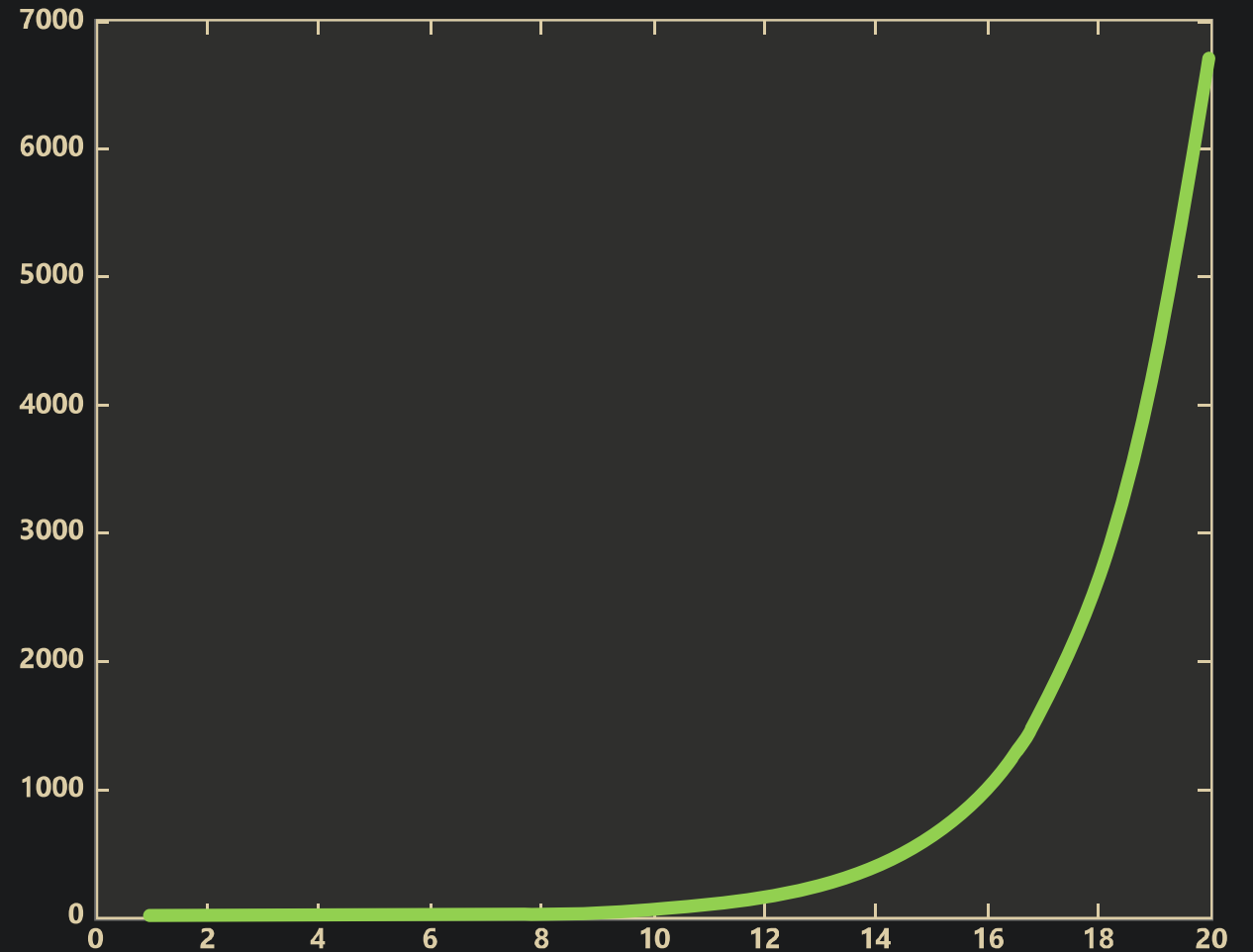
Source: Wikimedia Commons [Public Domain]





FIBONACCI SPIRAL: 1, 1, 2, 3, 5, 8, 13, 21, 34, ...

What does
Fibonacci have to
do with
contributing to
Postgres?



BECAUSE I ALWAYS WANTED



TO USE A ROMANESCO IN A TALK

THIS THING IS SPECIAL



FIBONACCI SPIRAL & A FRACTAL



Source: Reddit

21 WAYS TO CONTRIBUTE TO POSTGRES— BEYOND CODE



@clairegiordano



Why "Beyond Code"?
What if... you're not a developer?

Turns out, Josh Berkus gave a similar talk in 2013



How to contribute to PostgreSQL

or, 50 Ways To Love Your Project

Source: Josh Berkus on Slideshare.net: 50 Ways to Love Your Project

1

Attend conferences. Learn, participate, share



A promotional graphic for FOSDEM 2020. The background is a blurred image of a large crowd at a conference. In the center is a white gear icon with two dots inside, resembling a face. Text is arranged around the gear. At the bottom, there is a dark grey banner with white text and a purple button.

beer
open source
lightning talks

devrooms
8000+ hackers
835 lectures

Brussels / 1 & 2 February 2020 [schedule](#)

Source: fosdem.org/2020

Lots of ways to support local meetups



Source: @PostgreSQLNL, @OptimaDataBV

3

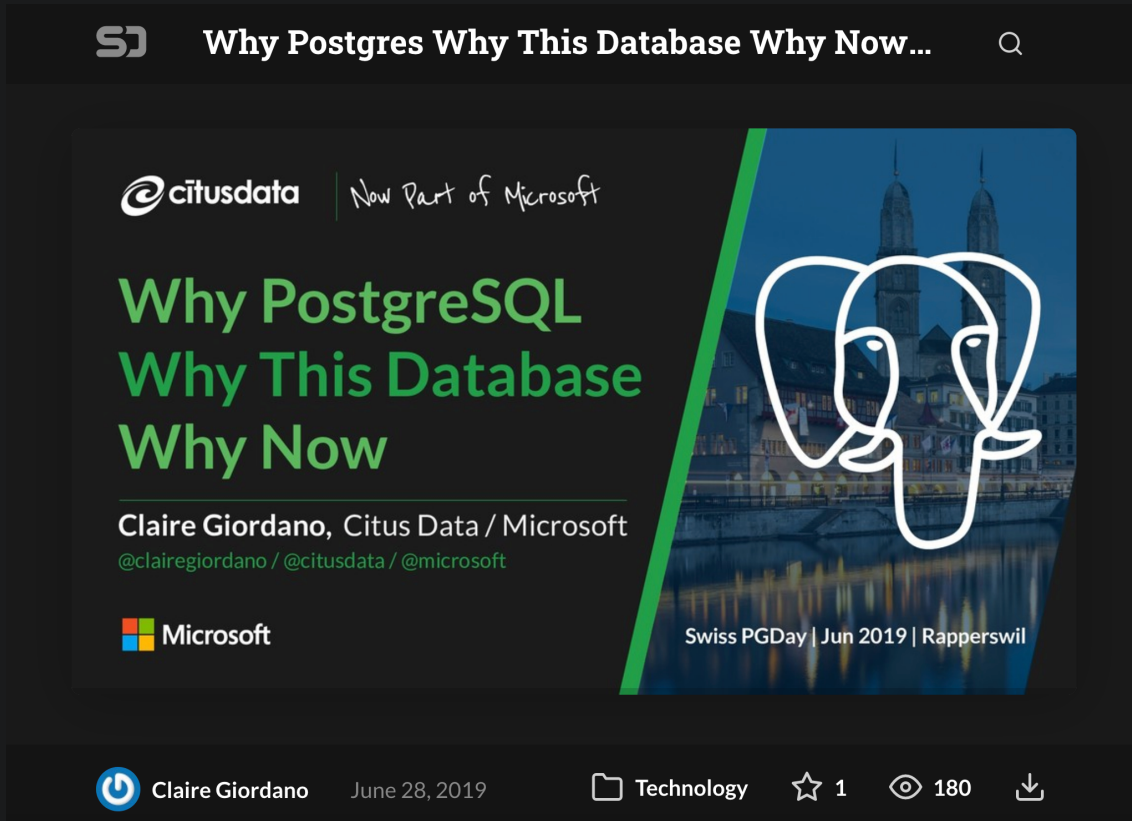
Share your expertise—give a conference talk

International Postgres Conference

POSTGRES IBIZA
JUN 25 - 26, 2020

[BUY TICKETS](#)

Source: pgibz.io



Post your slides online

of digital views can > # attendees

- speakerdeck.com
- slideshare.net
- conference sites

Source: speakerdeck.com/clairegiordano

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5

- > Single-track, 1-day, local
- > More affordable
- > Easy access



Start a local PGDay in your area

5



pgDay Santiago



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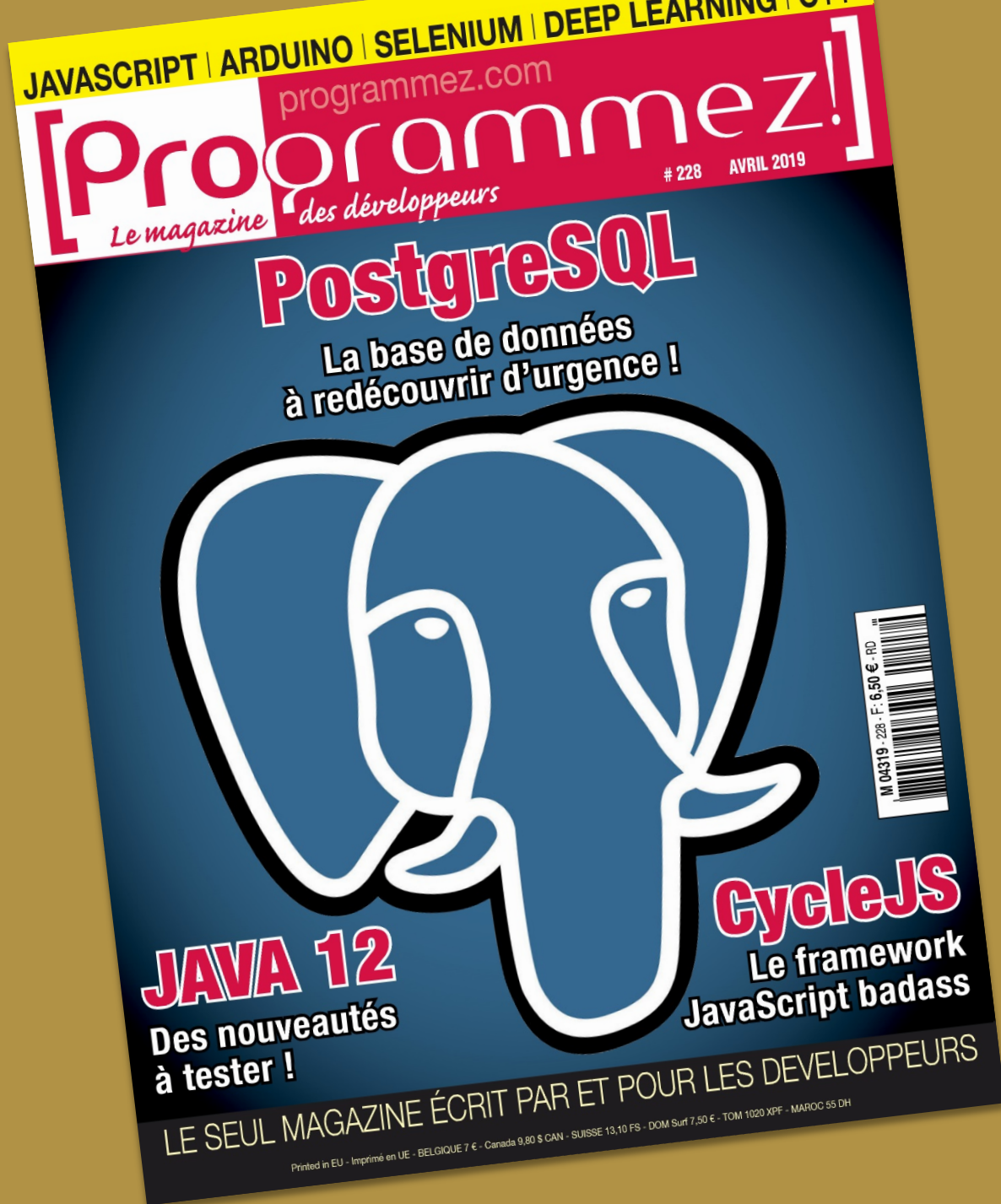
Source: pgday.cl/2019/

5

PG·DAY SF

@clairegiordano

Source: pgdaysf.org



6

Write a blog

Publish an article

Share learnings & expertise

Shine light on value of Postgres

@clairegiordano

7

Syndicate to Planet Postgres

to increase reach of your posts
@planetpostgres on Twitter, too

@clairegiordano



Following

Planet PostgreSQL

@planetpostgres

Blog entries from members of the PostgreSQL community

📍 Anywhere! 🔗 planet.postgresql.org

📅 Joined June 2008

288 Following 20.1K Followers



Followed by Azure Database for PostgreSQL, PostgreSQL, PGDa...

Tweets

Tweets & replies

Media

Likes



Planet PostgreSQL @planetpostgr... · 1h ▼

Abdul Yadi: Extension for String Translation

7

Syndicate to Planet Postgres

to increase reach of your posts
@planetpostgres on Twitter, too

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PLANET POSTGRESQL



Extension for String Translation

🔗 Abdul Yadi 🕒 2020-02-01

Row change auditing options for PostgreSQL

🔗 Kaarel Moppel 🕒 2020-01-30

Debian-Integration of Patroni and vip-manager

🔗 Michael Banck 🕒 2020-01-30

Checking catalogues for corruption with pg_catcheck

🔗 Luca Ferrari 🕒 2020-01-30

The Most Neglected Postgres Feature

🔗 Richard Yen 🕒 2020-01-29

Developing PostgreSQL for Windows, Part 1

🔗 Peter Eisentraut 🕒 2020-01-29

Which tables should be auto vacuumed or auto analyzed?

🔗 Hubert 'depesz' Lubaczewski 🕒 2020-01-29

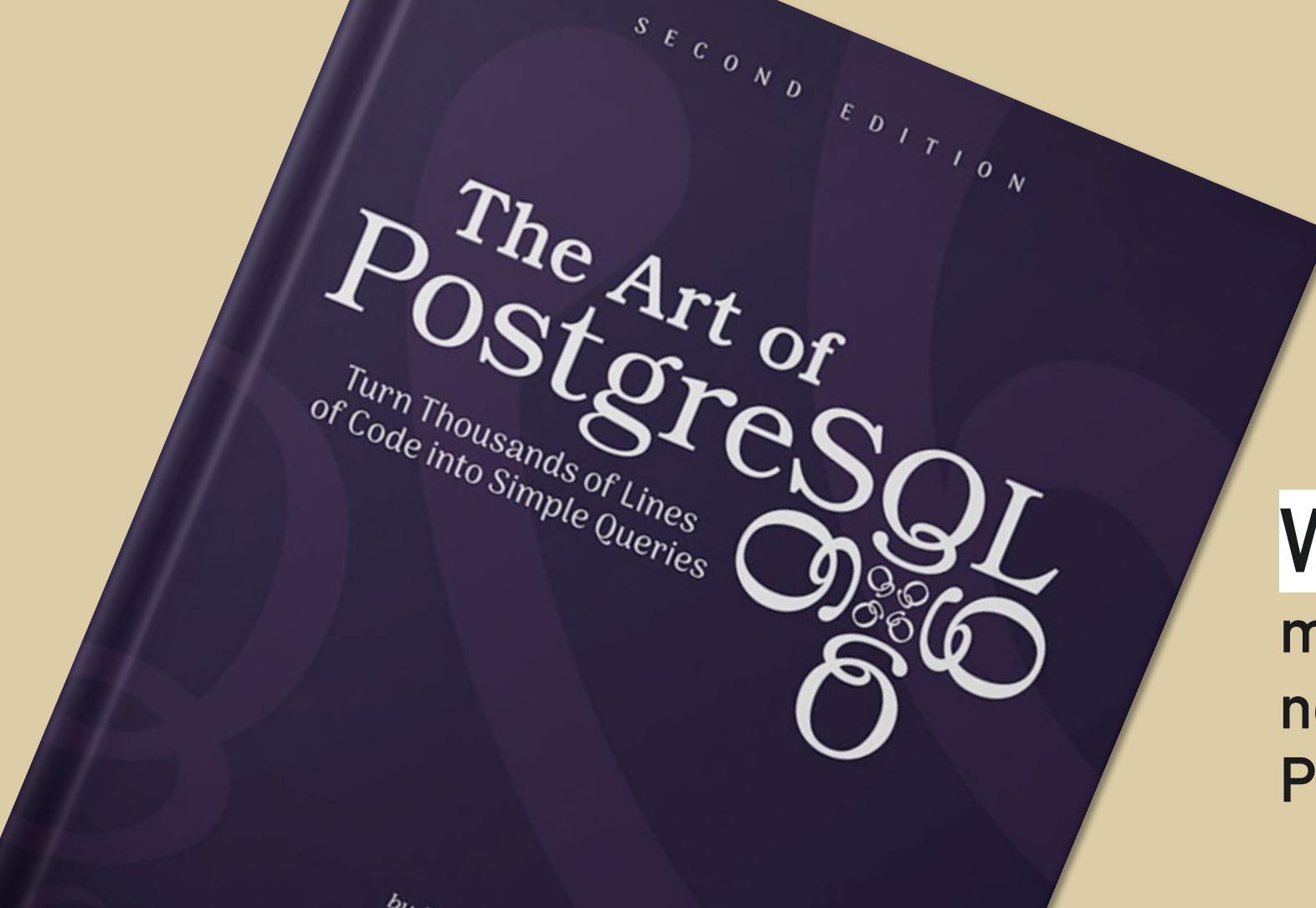
Don't do these things in PostgreSQL

🔗 Hubert 'depesz' Lubaczewski 🕒 2020-01-28

Waiting for PostgreSQL 13 – Add functions gcd() and lcm() for integer a

🔗 Hubert 'depesz' Lubaczewski

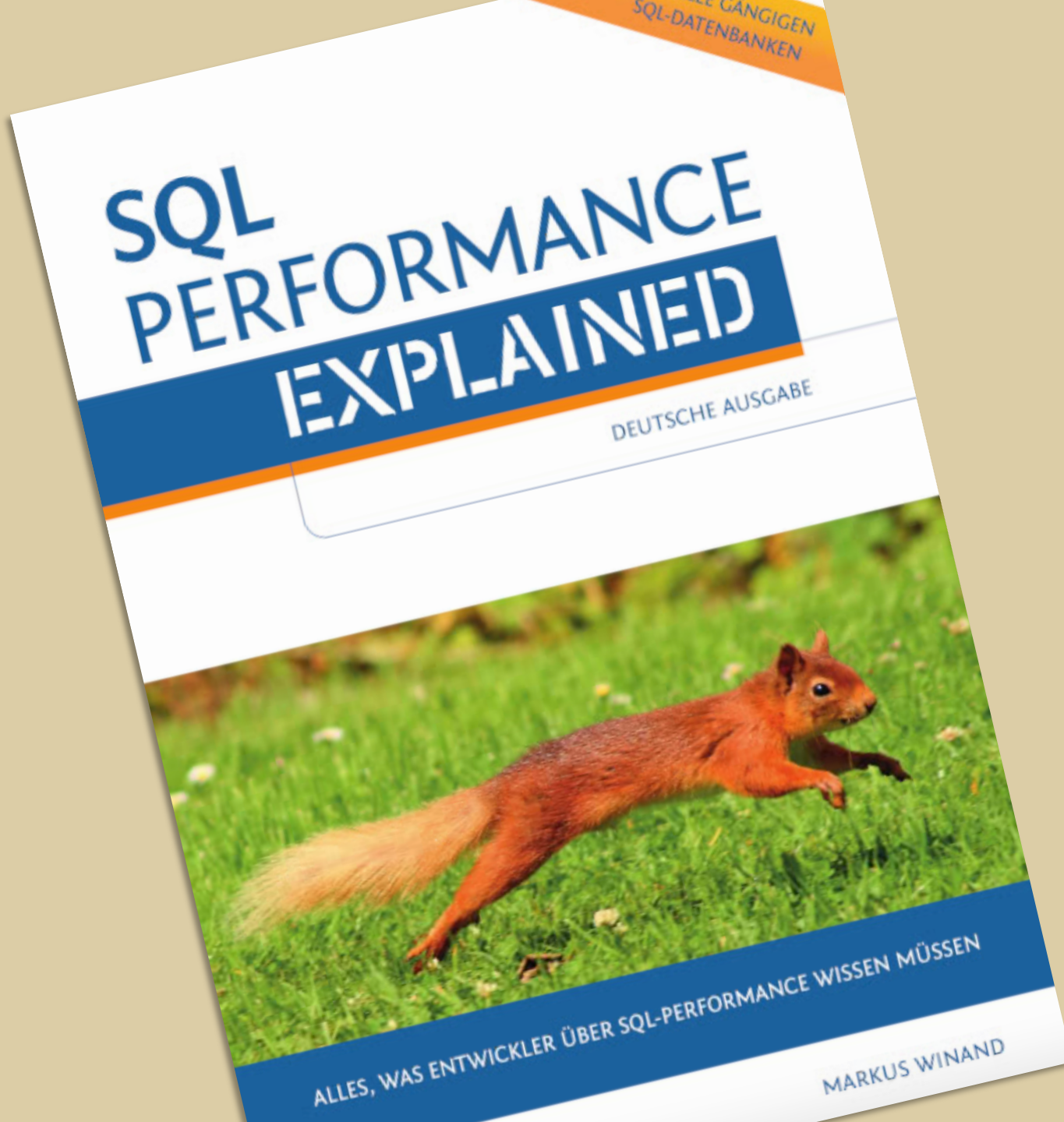
Source: postgresql.org



Write Books

make it easier for newcomers to use PostgreSQL

CLAIRE15 ~ a 15% off discount on any edition



Write Books

make it easier for newcomers to use Postgres

Source: sql-performance-explained.com

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9

Interview your users & tell their stories

- Story
- Headlines
- Diagrams
- Big Metrics
- “Pull quotes”





Unleash analytics on operational data with
Hyperscale (Citus) on Azure Database for

3.7K views



SHARE

SAVE



Microsoft Azure ✓
112K subscribers

SUBSCRIBE

Use Video to show what Postgres can do

Some people learn better via video

Source: youtube.com/watch?v=-cbT64D9KFk

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10

Thumbnail

Title

Description

Bookmarks

Links

Scaling Postgres for Time Series Data with Citus - Marco Claire Nov 2018

File Edit View Insert Format Slide Arrange Tools Add-ons Help All changes saved in Drive

Background... Layout... Theme... Transition...

Courtesy of pgDay Paris 2018. Marco Slot's lightning talk on YouTube: https://youtu.be/_OT9i6N3IXs

Scaling Postgres for Time Series Data with the Citus Database

671 views • Nov 16, 2018

12 0 SHARE SAVE

Citus Data
1.12K subscribers

SUBSCRIBED

A technical interview (and a demo) to learn how you can use the PostgreSQL database—with the Citus and pg_partman extensions—to scale out Postgres and analyze massive volumes of time series data. Together, Postgres + Citus + pg_partman are a powerful, distributed time series database.

Video bookmarks:

- ▶ 7:53 What is driving the interest in time series data?
- ▶ 10:06 What are challenges for databases when it comes to handling time series data?
- ▶ 14:39 What makes Postgres a good choice for analyzing time series data?
- ▶ 26:30 Marco's live demo of how you can partition and shard Postgres with pg_partman and Citus to scale out Postgres and analyze massive amounts of time series data.

If you are working with time series data today, you are probably dealing with large data volumes—and you might not be able to control the amount of data people are sending you. So you need a database that can scale out horizontally to give you performance—and yet, you also need a database that can do fairly advanced analytics so you and your users can find and discover the patterns in time series data. (think: joins, rollups, aggregates, complex queries across hundreds of millions or billions of rows)

Citus is an extension to Postgres that transforms Postgres into a distributed database. Available as a database as a service, as enterprise software, and as open source, Citus is popular with developers building multi-tenant SaaS applications and with teams building real-time analytics dashboards that require sub-second responses—including analytic dashboards dealing with time series data.

✓ See how enterprises and SaaS businesses use Citus to scale out Postgres today:
<https://www.citusdata.com/customers/>

✓ Join the Citus database community's public slack channel:
<https://slack.citusdata.com/>

Good video metadata
will help your video get
discovered

Some people learn better via
video

@clairegiordano

11

If you build it, they will NOT come. PROMOTE.





Promote on Twitter

learnings,
ideas,
talks,
meetups,
TIL, QOTD, OH,
how-to

@clairegiordano



Say thank you.

If you like someone's work, praise it.

- Privately. Publicly. Both.
- Especially junior & new people
- Not just luminaries & friends



NLS Status Tables

The tables below shows which areas of the PostgreSQL source are prepared for translation, and the progress of those translations. The numbers are percents of translated messages. By following the links, you can download freshly baked PO files that are merged up against the latest program sources. No PostgreSQL source tree is needed for translation work.

The **highlighted** boxes are the files that have a sufficient fraction of strings translated to be considered for release. Files that are **100%** translated are specially highlighted. All other files will not be part of the PostgreSQL release.

The grey numbers are translations that do not exist yet, but where this web site has initialized the translations files for you with data from the existing translations for the same language.

You can work in several branches. Please see the status information below and follow the announcements on the [mailing list](#) ([subscribe](#)) about when a branch is about to be released.

12 branch

Last update: Sat Feb 01 2020 03:47:41 GMT+0100 (Central European Standard Time)

| | af | cs | de | es | fa | fr | he | hr | hu | id | it | ja | ko | nb | nl | pl | pt_BR | ro | ru | sk | sl | sv | ta | t |
|---|----|-----|-----|-----|----|-----|----|----|----|----|-----|-----|-----|----|----|-----|-------|----|-----|----|----|-----|----|----|
| ecpg (123 strings) | | 100 | 100 | 100 | | 100 | 3 | 3 | 1 | 11 | 97 | 100 | 97 | 2 | 1 | 95 | 94 | 8 | 100 | 12 | 5 | 100 | 2 | 10 |
| ecpglib (32 strings) | | 100 | 100 | 100 | | 100 | | | | | 100 | 100 | 100 | | | 100 | 100 | | 100 | | | 100 | | 10 |
| initdb (168 strings) | | 100 | 100 | 100 | 1 | 100 | 49 | 5 | 1 | 18 | 50 | 97 | 50 | 5 | 7 | 48 | 45 | 30 | 100 | 17 | 22 | 100 | 24 | 9 |
| libpq (251 strings) | 26 | 100 | 100 | 100 | | 100 | 82 | 23 | 1 | 2 | 92 | 96 | 92 | 23 | | 79 | 78 | 1 | 98 | 26 | 37 | 100 | 49 | 9 |
| pg_archivecleanup (25 strings) | | 100 | 100 | 100 | 4 | 100 | 12 | | | 8 | 24 | 100 | 44 | 12 | 8 | 44 | 24 | 16 | 100 | 16 | 16 | 100 | 12 | 10 |
| pg_basebackup (261 strings) | | 100 | 100 | 100 | 1 | 100 | 21 | 2 | 1 | 8 | 27 | 98 | 27 | 4 | 2 | 21 | 19 | 3 | 100 | 8 | 6 | 100 | 2 | 9 |
| pg_checksums (54 strings) | | 100 | 100 | 100 | 1 | 100 | 11 | 3 | | 11 | 22 | 90 | 16 | 7 | 3 | 22 | 22 | 18 | 100 | 11 | 11 | 100 | 9 | 9 |
| pg_config (42 strings) | | 100 | 100 | 100 | 2 | 100 | 85 | 7 | 4 | 19 | 85 | 100 | 85 | 71 | 9 | 85 | 85 | 80 | 100 | 11 | 33 | 100 | 73 | 8 |
| pg_controldata (92 strings) | 1 | 100 | 100 | 100 | 22 | 100 | 9 | 3 | 20 | 8 | 86 | 100 | 86 | 22 | 6 | 80 | 79 | 47 | 100 | 26 | 27 | 100 | 36 | 8 |
| pg_ctl (158 strings) | | 99 | 99 | 99 | 1 | 100 | 80 | 1 | 1 | 8 | 84 | 99 | 84 | 6 | 5 | 79 | 75 | 27 | 99 | 3 | 26 | 100 | 45 | 8 |
| pg_dump (498 strings) | | 100 | 100 | 100 | | 100 | 25 | 1 | | 3 | 26 | 96 | 26 | 5 | 1 | 24 | 23 | 7 | 100 | 6 | 7 | 100 | 2 | 9 |
| pg_resetwal (114 strings) | | 100 | 100 | 100 | 9 | 100 | 3 | 6 | 10 | 8 | | 100 | 60 | 11 | 3 | 46 | 46 | 25 | 100 | 13 | 13 | 100 | 19 | 10 |
| pg_rewind (154 strings) | | 100 | 100 | 100 | 1 | 100 | 3 | 7 | 1 | 17 | 35 | 99 | 35 | 5 | 7 | 34 | 34 | 15 | 100 | 15 | 7 | 100 | 2 | 9 |

Help with message translations

Mailing list: [pgsql-translators](#)
More info: [babel.postgresql.org](#)
Instructions in Postgres docs: “Native Language support”

Report bugs with Postgres

“ When you find a bug with Postgres we want to hear about it.”

“ Your bug reports play an important part in making PostgreSQL more reliable.”

5. Bug Reporting Guidelines

5.1. Identifying Bugs

5.2. What to Report

5.3. Where to Report Bugs

When you find a bug in PostgreSQL we want to hear about it. Your bug reports play an important part in making PostgreSQL more reliable because even the utmost care cannot guarantee that every part of PostgreSQL will work on every platform under every circumstance.

The following suggestions are intended to assist you in forming bug reports that can be handled in an effective fashion. No one is required to follow them but doing so tends to be to everyone's advantage.

We cannot promise to fix every bug right away. If the bug is obvious, critical, or affects a lot of users, chances are good that someone will look into it. It could also happen that we tell you to update to a newer version to see if the bug happens there. Or we might decide that the bug cannot be fixed before some major rewrite we might be planning is done. Or perhaps it is simply too hard and there are more important things on the agenda. If you need help immediately, consider obtaining a commercial support contract.

WHERE to report bugs

“ When you find a bug with Postgres we want to hear about it.”

“ Your bug reports play an important part in making PostgreSQL more reliable.”

5.3. Where to Report Bugs

In general, send bug reports to the bug report mailing list at `<pgsql-bugs@lists.postgresql.org>`. You are requested to use a descriptive subject for your email message, perhaps parts of the error message.

Another method is to fill in the bug report web-form available at the project's **web site**. Entering a bug report this way causes it to be mailed to the `<pgsql-bugs@lists.postgresql.org>` mailing list.

If your bug report has security implications and you'd prefer that it not become immediately visible in public archives, don't send it to `pgsql-bugs`. Security issues can be reported privately to `<security@postgresql.org>`.

Submit correction

If you see anything in the documentation that is not correct, does not match your experience with the particular feature or requires further clarification, please use **this form** to report a documentation issue.



[Privacy Policy](#) | [Code of Conduct](#) | [About PostgreSQL](#) | [Contact](#)

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16

Submit corrections to documentation

Clarify

Disambiguate

Help new people understand

Source: [postgresql.org](https://www.postgresql.org)

@clairegiordano

Submit documentation comment

Found something in the documentation that is incorrect, does not match your experience with a particular feature, or requires further clarification?

Please fill out the form below with your name, email, subject, and a detailed description about what you are commenting on. After clicking the button below, an email will be sent to the pgsql-docs@lists.postgresql.org mailing list.

By submitting this form, you agree that all of its contents, including your personal information as listed, will be posted to the public pgsql-docs@lists.postgresql.org mailing list, and archived in the public list archives.

Your Name:

Your Email:

Subject:

What is your comment?

Submit corrections to documentation

Clarify

Disambiguate

Help new people understand

Source: [postgresql.org](https://www.postgresql.org)

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17

Stickers are a thing

Promote your Postgres projects too
Spark unexpected conversations



Use your design skills

Graphics & visuals pull people in

- Citus elicor**n**
- Louise Grandjonc's crocodile
- Postgres Activity Book

Source: Citus “sharded” elicor**n**

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Use your design skills

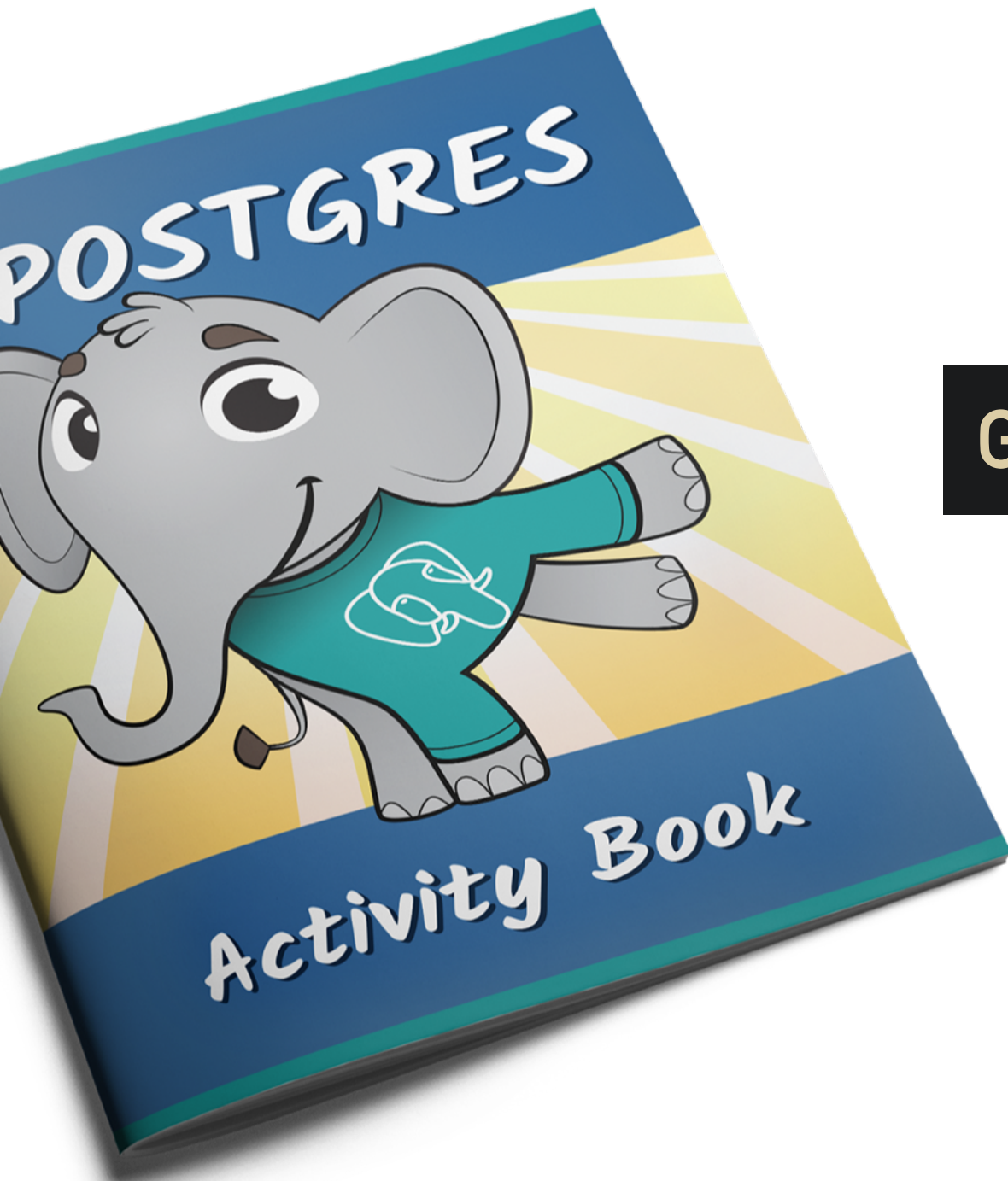
Graphics & visuals pull people in



Source: www.instagram.com/zimmoriarty/

- Citus elicorn
- **Louise Grandjonc's crocodile**
- Postgres Activity Book

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Use your design skills

Graphics & visuals pull people in

- Citus elicorn
- Louise Grandjonc's crocodile
- **Postgres Activity Book**

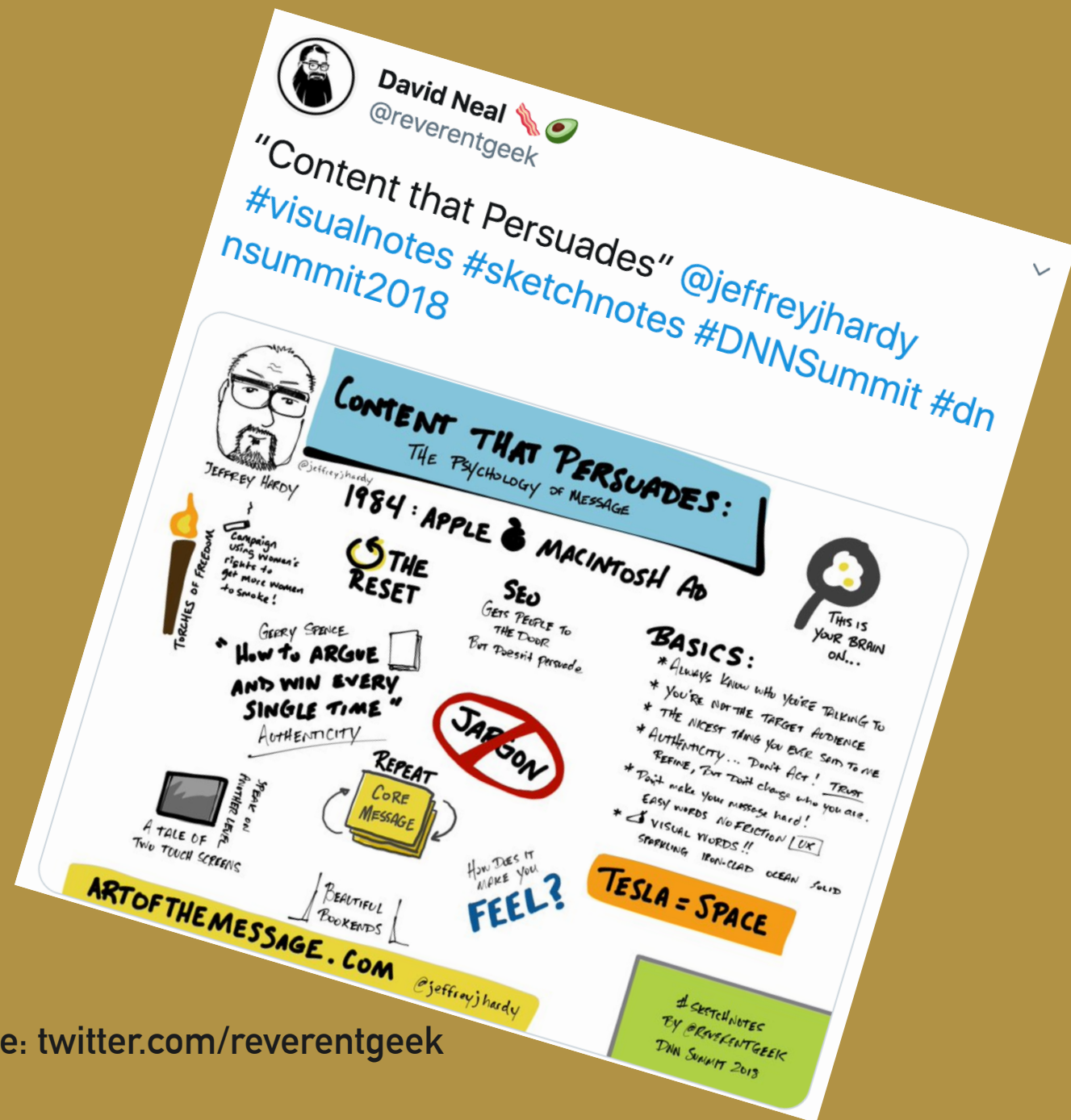
19

Use "Sketchnotes" to share your learnings

Combine words, lettering styles, color, sketches, bullets

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Source: twitter.com/reverentgeek



Evangelize at your local university (or alma mater)



21

Make people feel welcome

Being “welcoming” is
one step further
than being “open”

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21 Ways to Contribute to Postgres—Beyond Code

1. Attend Conferences
2. Meetups & User Groups
3. Give a Talk
4. Post Slides online
5. Start a PGDay
6. Blogs & articles
7. Syndicate to Planet Postgres
8. Write a book
9. User Stories
10. Bite-sized videos
11. Promote
12. Twitter
13. Say Thank You!
14. Translations
15. Report Bugs
16. Doc Feedback
17. Stickers
18. Design skills
19. #sketchnotes
20. University outreach
21. Welcome people in

ONE MORE FLIPPINGLY AMAZING

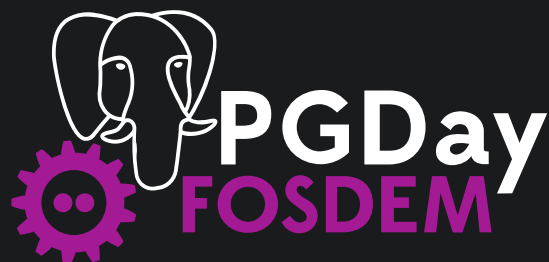
FIBONACCI SPIRAL IN NATURE





Merci / Dank u

@clairegiordano • @citusdata • @microsoft



FOSDEM'20

