



What PostgreSQL could learn from MySQL



The learning continues ...

Susanne Ebrecht

PostgreSQL User Group Germany
MySQL Support Engineer

PGCon 2008



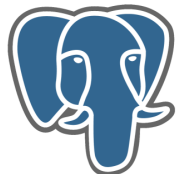
Main questions



Why get MySQL so popular?

What are they doing to stay popular?

Lets start analysing this ...



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Market



Where can you find the most users?

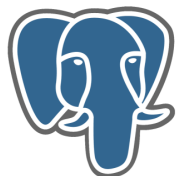
- ▶ Windows
- ▶ Linux

For what could they need a RDBMS?

- ▶ World Wide Web / Intranet
 - PHP
- ▶ Private issues

Easy to use

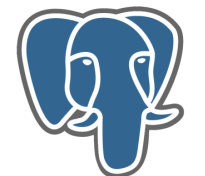




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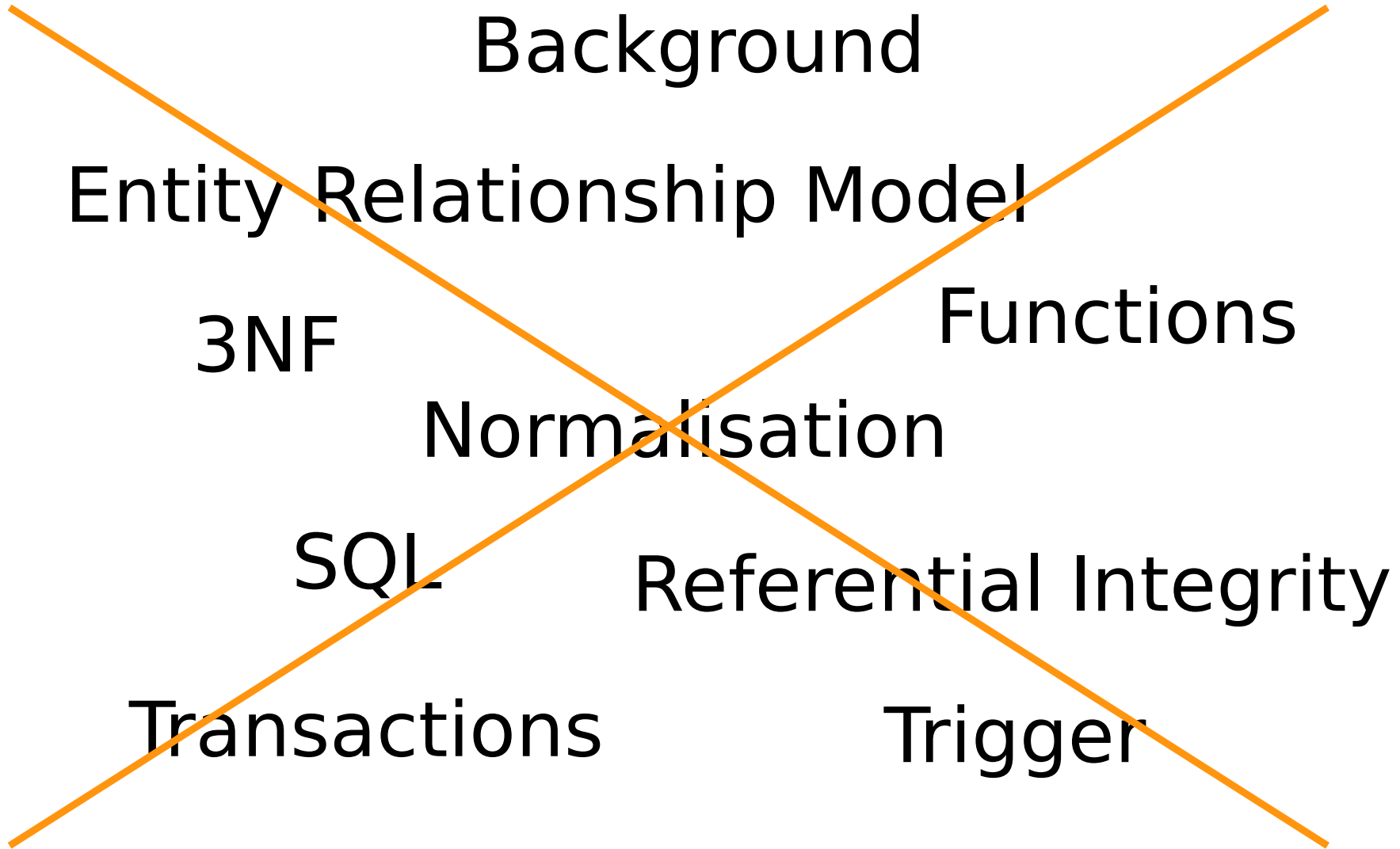
Packaging





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Knowledge about basics





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Documentation



Books

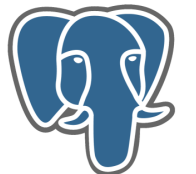
Books

A database is a structured collection of data.

Una base de datos es una colección
estructurada de datos.

Une base de données est un ensemble
organisé de données.

Eine Datenbank ist eine strukturierte Sammlung von Daten.



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Combination with others

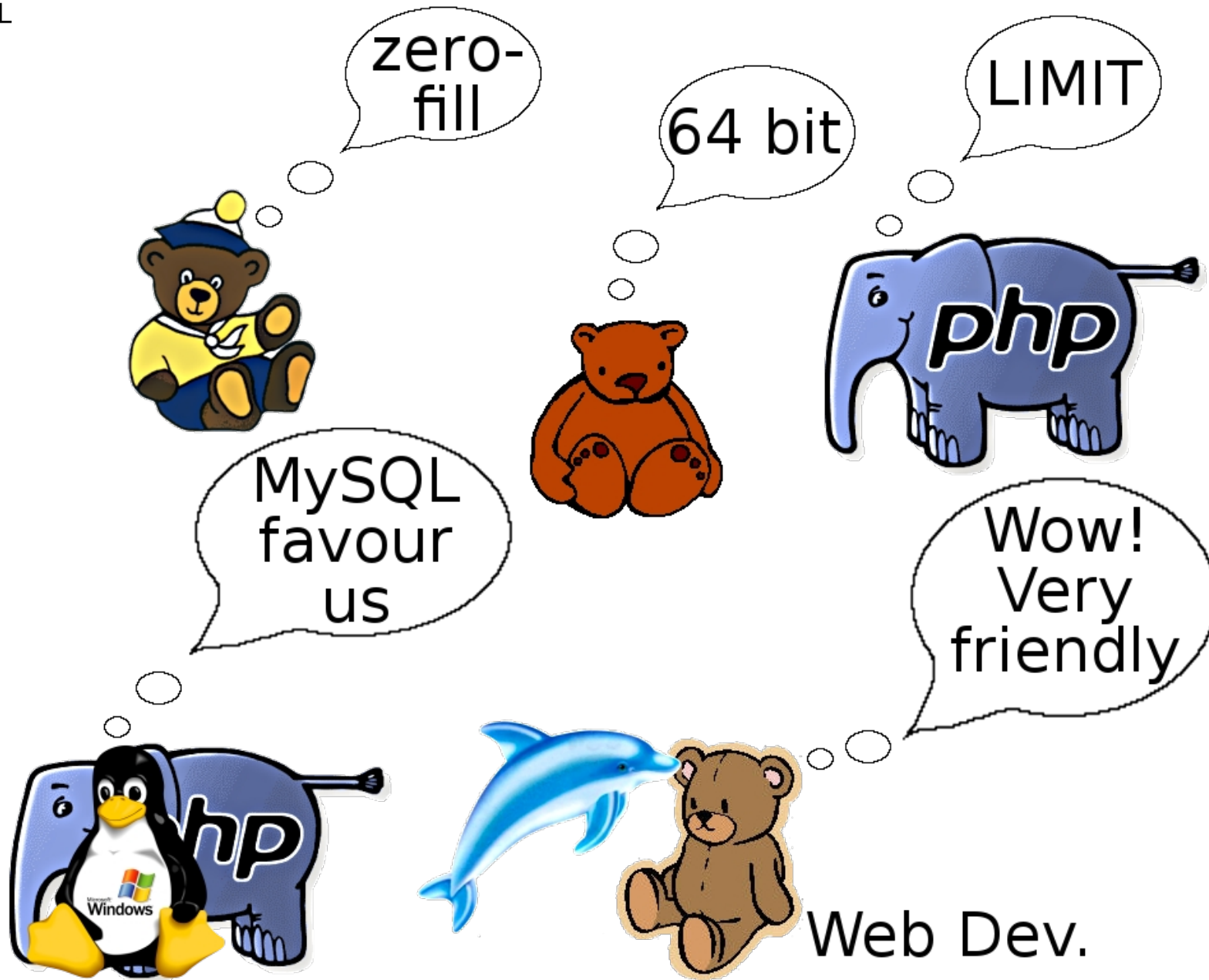


- ▶ Agreement with PHP to implement MySQL as default
- ▶ LAMP
- ▶ Tries to get an agreement with OpenOffice
- ▶ Tries to get agreements with others



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Users



- ▶ No Transactions at MyISAM
 - Mail (Greylisting)
 - Call center (out calls)
 - Games

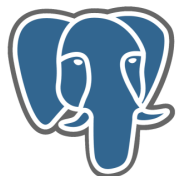
- ▶ No strict error behaviour
 - February, 31st
 - No check of referential integrity



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Upgrade version





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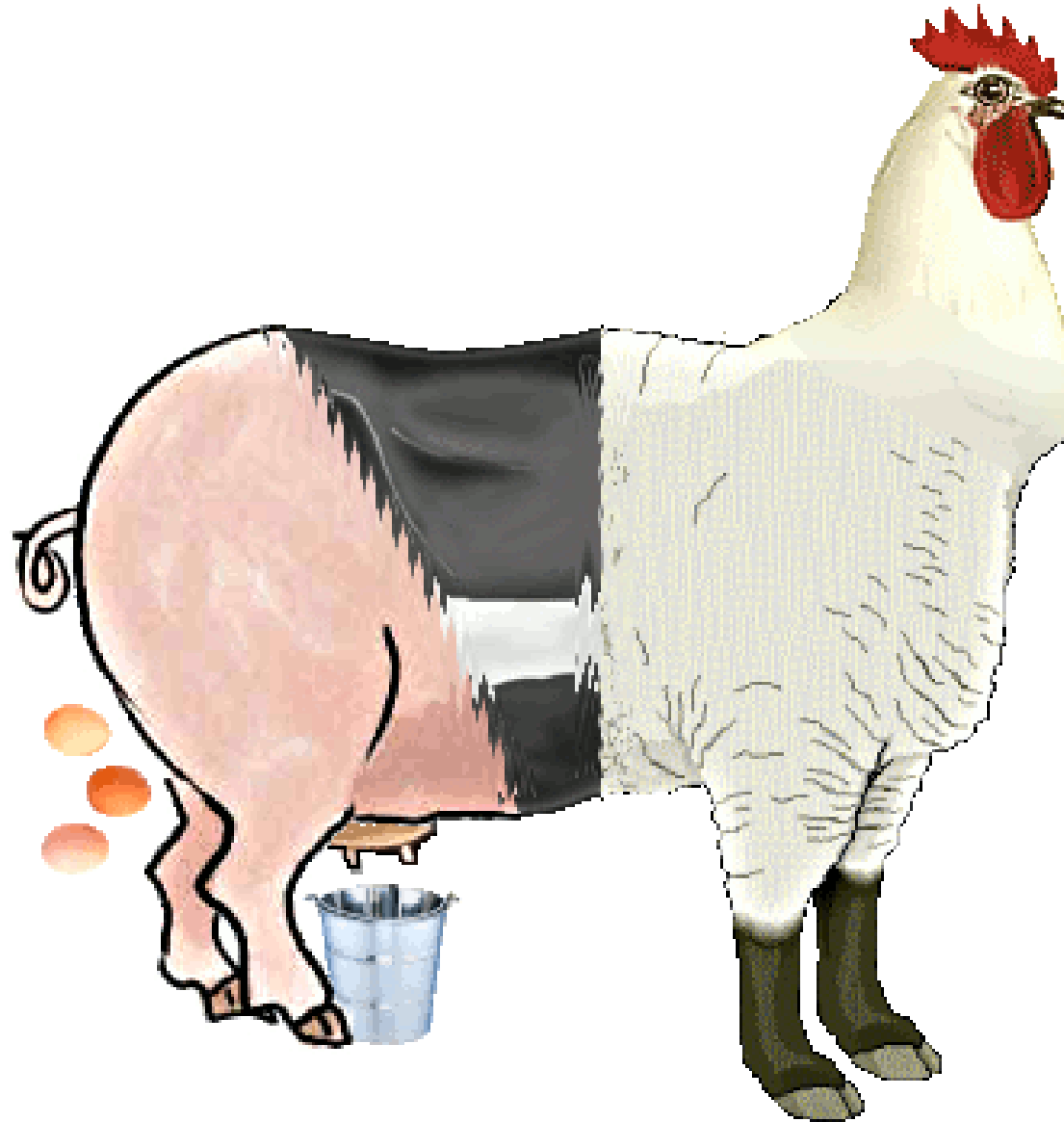
Backward Compatibility



- ▶ Strict mode not default
 - Behaviour of February, 31st
 - Only default on Windows
- ▶ Users don't have to change their software
 - Old behaviours won't changed by default
- ▶ New options and behaviours can be configured by user

Eierlegende Wollmilchsau

eggs, wool and milk spending pic

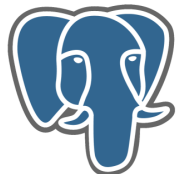




Replication / Cluster



- ▶ Simple statement based replication
- ▶ Simple row based replication
- ▶ Simple master <-> master replication
- ▶ Simple clustering
- ▶ All in only one package

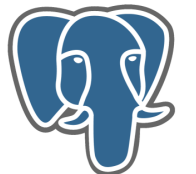


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Perfection



- ▶ Step by step development
 - Replication
 - Cluster
 - Connectors
 - Other features
- ▶ Release before feature is perfect (good enough feature)
- ▶ Continuous development



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Release



- ▶ Release often
- ▶ Release early
- ▶ Don't try to be perfect
- ▶ Fix bugs after release



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Feature Release



We
need
XYZ





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Nice to have



A good marketing that is able
to sell bugs as features



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Bug tracking



MySQL Bugs: #36686: comp_err crashes installation - Mozilla Firefox 3 Beta 5

http://bugs.mysql.com/bug.php?id=36686

MySQL

Developer Zone | Bugs Home | View your bugs | Report a bug | Statistics | Advanced search | Saved searches | Tags

Bug #36686 comp_err crashes installation

Submitted:	13 May 13:25	Modified:	13 May 13:55
Reporter:	Susanne Ebrecht — Evaluate	Email Updates:	Subscribe
Status:	Verified		
Category:	Server: Installing	Severity:	S3 (Non-critical)
Version:	5.1-bk, 6.0-bk	OS:	FreeBSD (7.0)
Assigned to:		Target Version:	
Triage:	D1 (Critical) / W1 (None) / I3 (Substantial)		
Priority:		Internal order:	0
Verifier:	Susanne Ebrecht	Support issues:	
Reviewers:		Lead:	Daniel Fischer

[View](#) | [Add Comment](#) | [Files](#) | [Developer](#) | [Edit Submission](#) | [View Progress Log](#)

[13 May 13:25] [Susanne Ebrecht](#)

Description:

```

gmake[2]: Leaving directory `/usr/home/miracee/mysql51bksrc/extra'
../extra/comp_err \
  --charset=./sql/share/charsets \
  --out-dir=./sql/share/ \
  --header_file=./include/mysql_error.h \
  --name_file=./include/mysql_errname.h \
  --state_file=./include/sql_state.h \
  --in_file=./sql/share/errmsg.txt
gmake[1]: *** [./include/mysql_error.h] Segmentation fault: 11 (Speicherauszug
erstellt)
gmake[1]: Leaving directory `/usr/home/miracee/mysql51bksrc/extra'
gmake: *** [all-recursive] Fehler 1

Try to get more informations by using 'make':

make comp_err
`comp_err' is up to date.
../extra/comp_err --charset=./sql/share/charsets --out-dir=./sql/share/
--header_file=./include/mysql_error.h --name_file=./include/mysql_errname.h
--state_file=./include/sql_state.h --in_file=./sql/share/errmsg.txt
Segmentation fault (core dumped)

```

Fertig



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Warnings



- ▶ Don't implement encoding stuff by your own
- ▶ Don't stop strong code review
- ▶ Stay being such a great community



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Closing Words



Thank you ...

MySQL community for helping
to prepare this talk

Josh Berkus for motivating me

Thanks for listening