

# Redis

## als eine multi-modale NoSQL DB

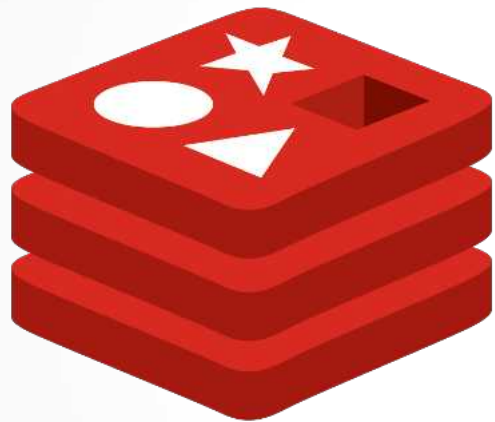
Dr. Christoph Zimmermann

26. 1. 2021

# cat /etc/motd

- Einführung
- Multi-modales Redis
- Fallbeispiele
- Demo
- Zusammenfassung





redis



# info redis (ff.)

**172**

CLIENTS IN 53 LANGUAGES

**100+**

HIGHER LEVEL LIBRARIES  
AND TOOLS

**500+**

CONTRIBUTORS

**9.8K+**

GITHUB COMMITS

**46K+**

REDIS GITHUB STARS

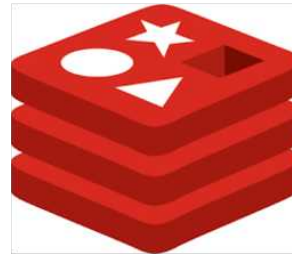
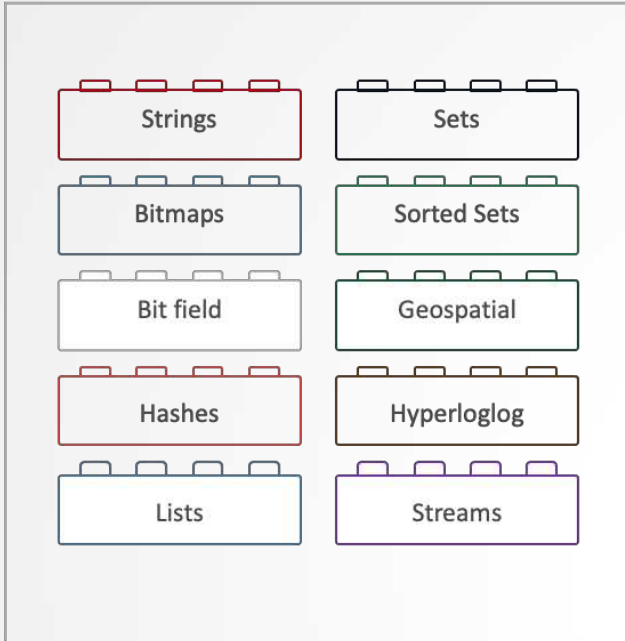
**48.6K+**

STACK OVERFLOW  
QUESTIONS

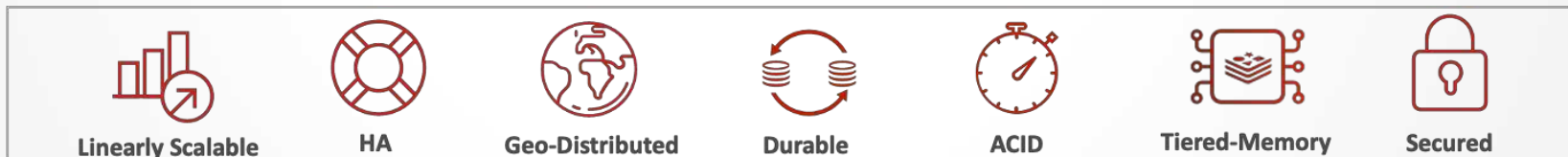


# man redis

## Redis Native Data Structures



## Redis Modules

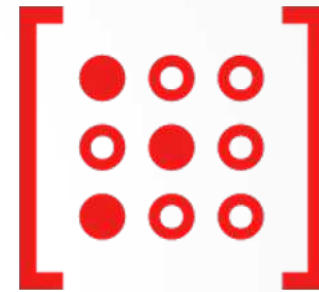


## Redis Enterprise

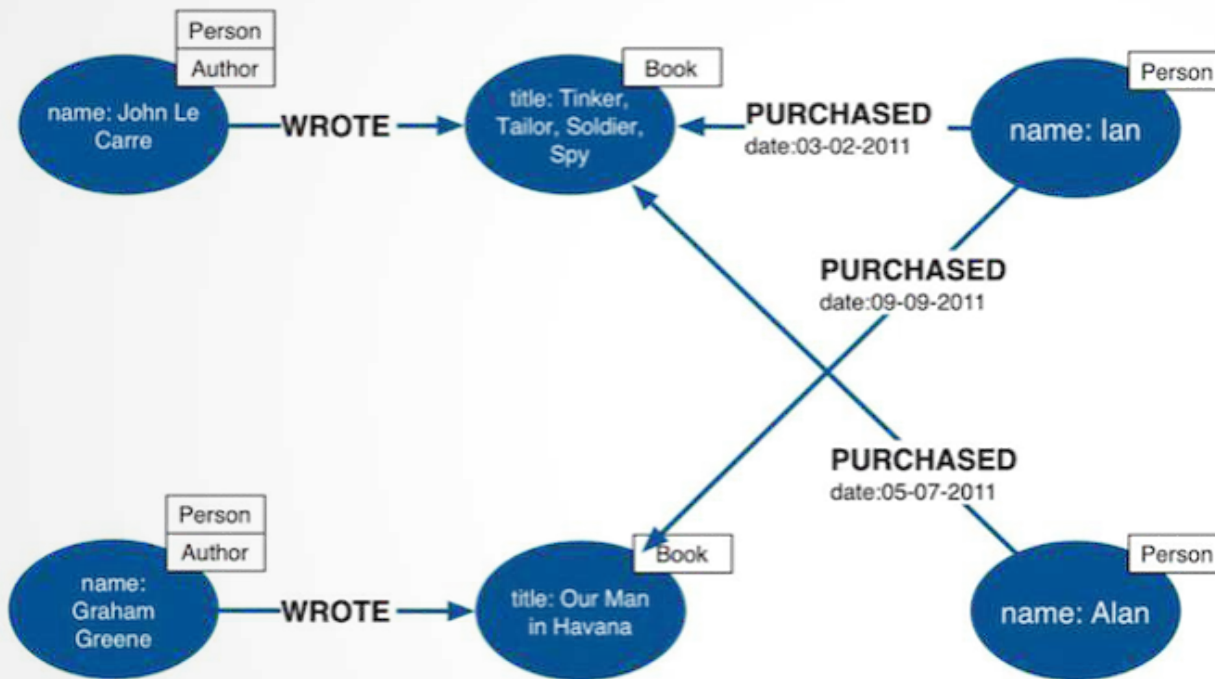


# man redisgraph

RedisGraph



# man redisgraph (ff.)



- Bausteine:
  - Knoten
  - Kanten
  - Labels
  - Eigenschaften



# Demo





# man redisgraph (ff.)

- OpenCypher-kompatible Graph DB Erweiterung
- Effiziente Speicherung in fast leeren Matrizen
- Performante GraphBLAS-basierende Implementierung
- Leistungssteigerung: 10x – 50x schneller als Industriestandard
- Klientenanbindungen:
  - Compiler-basierend: Rust, Golang, Java
  - Andere: Python, JavaScript, Ruby, PHP

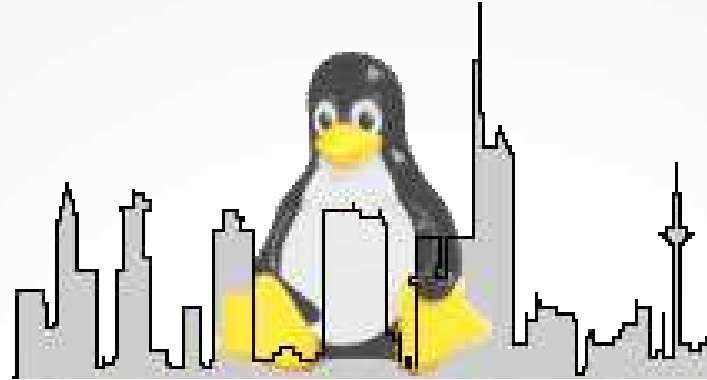


- Flexible multi-modale In-Memory DB
- Mächtige native Datentypen
- Einfache Erweiterbarkeit durch Modul-Ökosystem:
  - Modul-SDK (C-Bindings: Rust, Go, etc.)
  - Gears: Modul-Infrastruktur
  - Umfangreiche Klienten-Anbindungen



**? / !**





# Vielen Dank

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