

Open Source @ TUM

TUM Developers

Visit us at tum.dev



whois TUM Dev

📍 NavigaTUM

Rooms Data Mining

- All rooms since 1868
- API and Website

📍 NavigaTUM

Standorte / Garching Forschungszentrum / Maschinenwesen

5501.EG.101 (Fachschafft Masch)

Büro

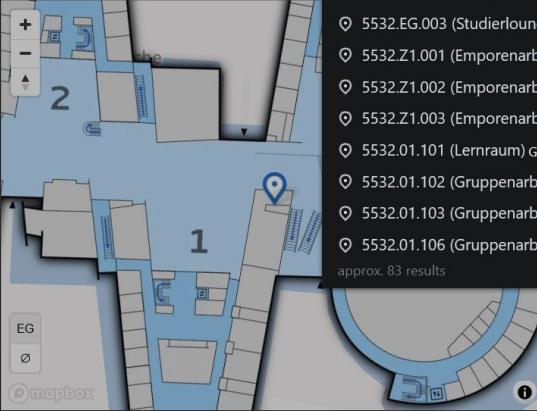
Buildings / Sites

1 result

Rooms

📍 5532.EG.002 (Lehr-/ Seminarraum) Garching, StudiTUM, **0.002@5532**
📍 5532.EG.003 (Studierlounge) Garching, StudiTUM, **0.003@5532**
📍 5532.Z1.001 (Emporenarbeitsplätze Foyer) Garching, StudiTUM, **Z.001@5532**
📍 5532.Z1.002 (Emporenarbeitsplätze Seminar) Garching, StudiTUM, **Z.002@5532**
📍 5532.Z1.003 (Emporenarbeitsplätze Lounge) Garching, StudiTUM, **Z.003@5532**
📍 5532.01.101 (Lernraum) Garching, StudiTUM, **1.101@5532**
📍 5532.01.102 (Gruppenarbeitsraum) Garching, StudiTUM, **1.102@5532**
📍 5532.01.103 (Gruppenarbeitsraum) Garching, StudiTUM, **1.103@5532**
📍 5532.01.106 (Gruppenarbeitsraum) Garching, StudiTUM, **1.106@5532**

approx. 83 results



Interactive Map Site Plans



eat-api

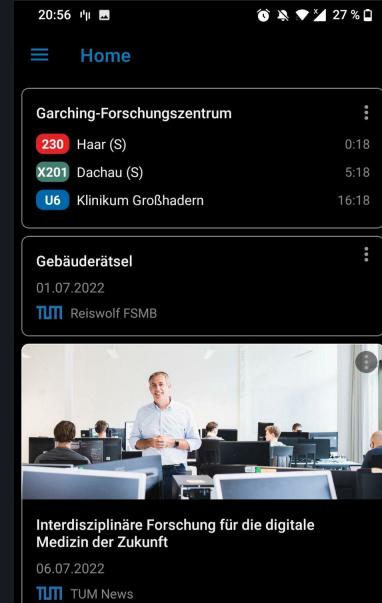
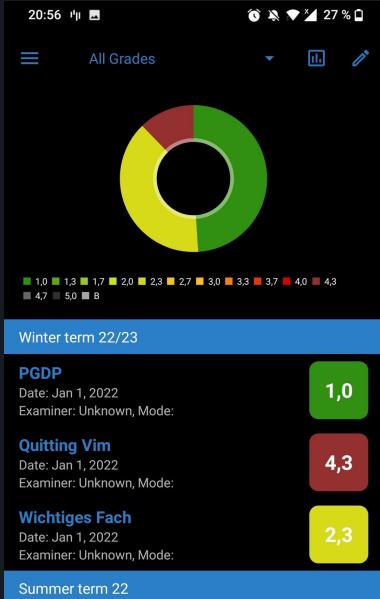
Canteen Data Mining

- All dishes since 2017
- JSON API

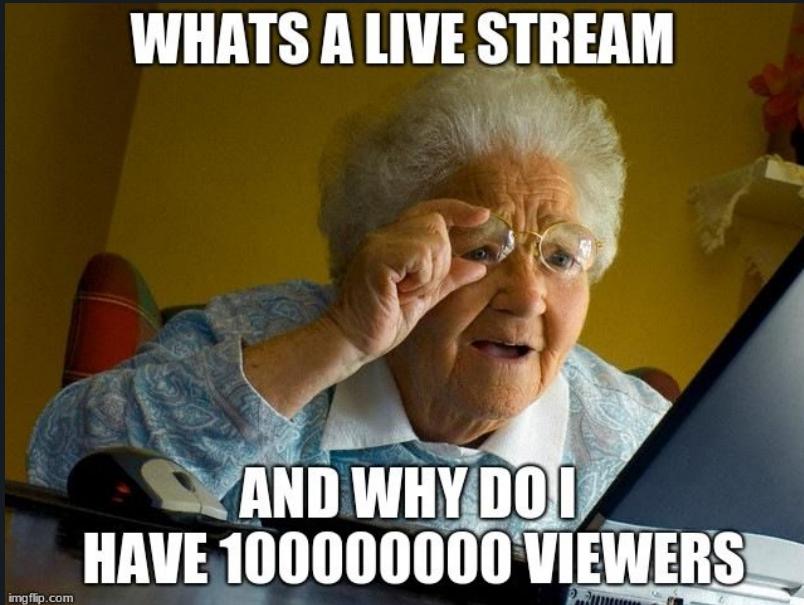
Mensa Garching	Price (students)
Mensa Arcisstraße	ed from 11:00 to 14:00 ⓘ
Mensa Garching	
Mensa Leopoldstraße	
Mensa Lothstraße	
Mensa Martinsried	
Mensa Pasing	
Mensa Weihenstephan	
StuBistro Arcisstraße	
StuBistro Goethestraße	
StuBistro Großhadern	
StuBistro Rosenheim	
StuBistro Schellingstraße	
StuCafé Adalbertstraße	
StuCafé Akademie Weihenstephan	
StuCafé Boltzmannstraße	
StuCafé Connollystraße	
StuCafé in der Mensa Garching	
StuCafé Karlstraße	
StuCafé Pasing	
IDB Bistro Garching	
Mashed potatoes	0.80€/100g
La 🥔 🥑	
Parsley potatoes	0.80€/100g
🥔 🥑	
Basmati rice	0.80€/100g
🍚	
Fresh vegetables daily	0.80€/100g

Apple Android Campus App

-  Lectures
-  Grades
-  Calendar
-  Canteens
-  TUM News
-  Departures
- ...



TUM-Live



- Watch lectures online
 - Live streams
 - Recordings
 - Chat
- Used for most larger CS, Maths and Physics lectures





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 - . So you can save 5 seconds googling for it!
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TUM.sex ☆ Star

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1. SEMESTER

Einführung in die Informatik 1 – [info.tum.sex](#)

Praktikum Grundlagen der Programmierung (Moodle-Kurs) – [pgdp.tum.sex](#)

2. SEMESTER

Einführung in die Softwaretechnik – [eist.tum.sex](#)

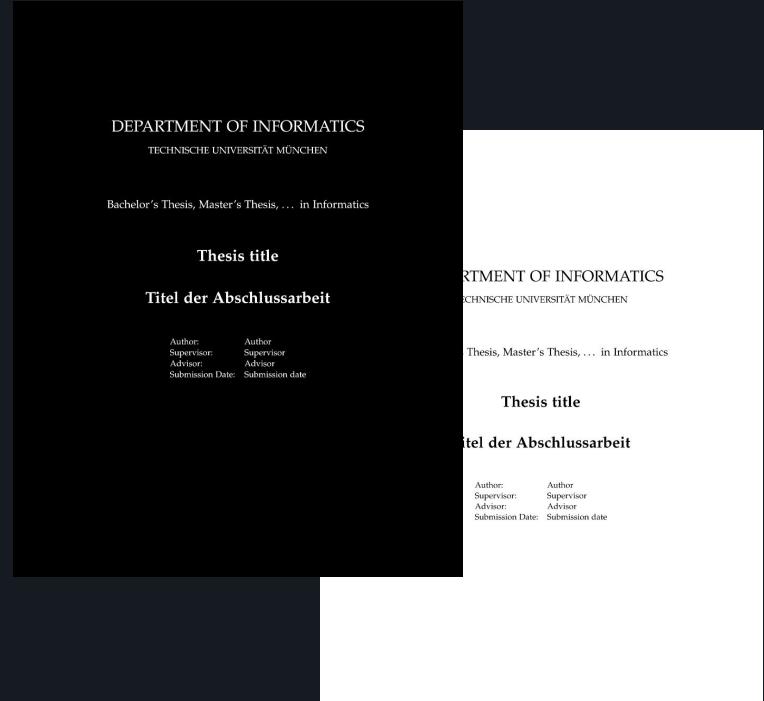
Grundlegende Algorithmen und Datenstrukturen – [gad.tum.sex](#)



Template for TUM Theses

Make your thesis great (again)

-  Dark Mode
-  Light Mode



Facts



- Around for 10+ years
- several thousand active users
- Excellent^{TM ®} companion apps for TUM students
- 10ish active developers
- Cover all areas: iOS, Android, Web, and Backend

We ❤️ Open Source

 tum.app

Limits of Open Source

Maintainer burnout

- Small project gain major popularity overnight
 - No processes available to funnel work
 - “Wanting to please everyone” syndrome
- Funding / single people vs. entire teams
- Automatically generated patches are making this worse
- Managing expectations with OS projects is hard

> Torvalds said that, while the community gets a lot of new contributors, it doesn't tend to get many new maintainers. The contributor and maintainer roles should be separated, he said.

From [Reducing kernel-maintainer burnout](#) on lwn.net

Companies and Open Source

- Open Source itself is not a business strategy
 - Licensing hell (Terraform, Redis, etc.)
 - Developers need to eat
- Motivation not clear when “for-profit company”?
 - User / customer trust
- => Lots of foundations that host software
 - Apache / Linux foundation
 - Cloud Native Computing Foundation (CNCF)
 - Others

Google

- Android Open Source Project
- Chromium
 - ChromeOS
- github.com/google
 - Over 2700 repositories, some actively maintained
- Not anymore: Kubernetes (first commits)

Projects I've been involved in

- github.com/google/goget
- github.com/google/go-patchutils
- Internal systems work very differently
- Doing open source is actually harder for me today
- Not a lot of benefits that would drive more os-work

So is everything bad?

Clearly: no!

- Open Source is a fantastic learning opportunity.
- OS allows anyone to understand why something might be broken.
- OS encourages collaboration.
- Technology like Android builds upon the Linux kernel.
 - Only possible because Free Software exists?

Other Benefits of OS

- Transparency
- Security
- Flexibility / Forking
- Crowdsource ideas and work

Answers!

