INTRO TO LTT.RS

A JMAP E-MAIL CLIENT FOR ANDROID

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ABOUT ME

• XMPP Developer
  ▪ Council of the XSF
  ▪ Conversations.im
• Side project: JMAP
  ▪ Since ~2017 (pre RFC)
  ▪ Java library + Ltt.rs
WHY JMAP?

- No extensions (fewer?)
- Send *and* receive
- JSON parsers readily available
- No MIME parsing required
- Built-in Push Support
- See Ricardo’s (omitted) slides on how weird IMAP is
ARCHITECTURE

- Java 17
- Android Jetpack (Room, Navigation, WorkManager, …)
- Room implementation of generic storage interface of jmap-mua
- Playground for new APIs (Predictive Back, Material U)
OFFLINE CAPABILITIES

- All queries cached (including searches)
- Users actions (move to mailbox, mark read, ⋮) persisted using WorkManager
(UNIFIED)PUSH

- Foreground: WebSockets or EventSource
- Open Source WebPush
  - Firebase (requires VAPID)
  - UnifiedPush (multiple backends including Conversations)
AUTOCRYPT

- Native support; no plugin
- It just works! Lock icon in compose screen
- Key import during account setup (setup message)
- Server devs: Search arbitrary e-mail headers!
THANK YOU!

- **JMAP library:**
  codeberg.org/inputmice/jmap
- **Android Client:**
  codeberg.org/iNPUTmice/lttrs-android
- **Mastodon:**
  @daniel@gultsch.social

Slides codeberg.org/inputmice/talks