

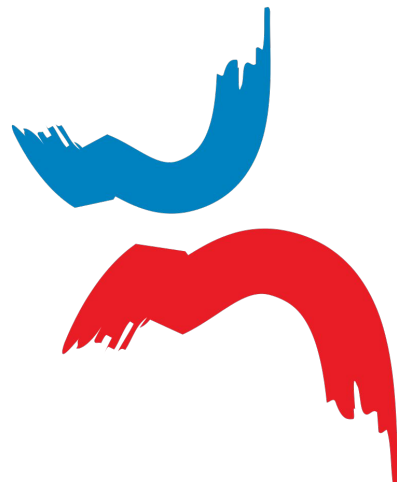


Wikidata Powered Language Keyboards

(Hacking out way to autocomplete)

Andrew Tavis McAllister

Senior Data Analyst: ResearchGate
Initiator and Lead Developer: Scribe

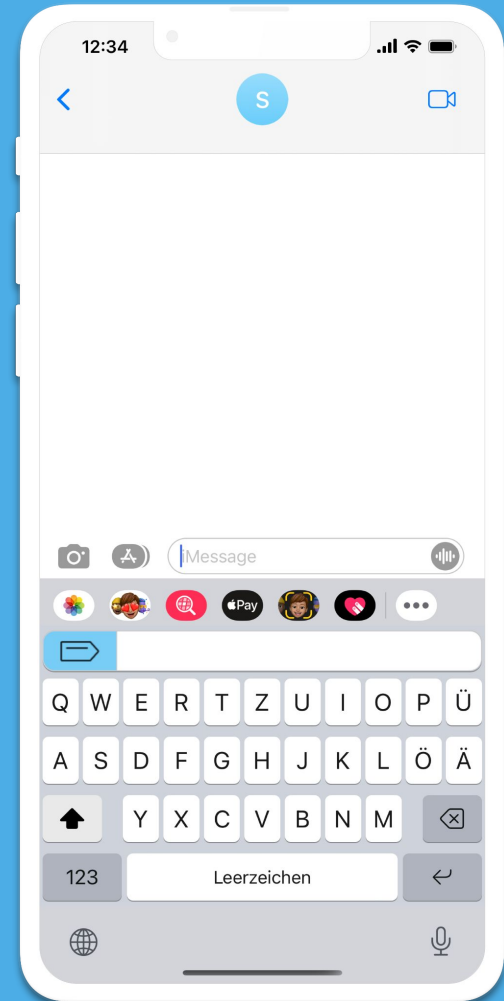


WIKIMANIA

Schedule

- Presentation (~20 min)
 - Overview
 - Hackathon Update
 - iOS Demo
 - Wikidata + Data Process
 - Future Plans
 - Contributing
- Discussion (rest of session)

* Questions always welcome!

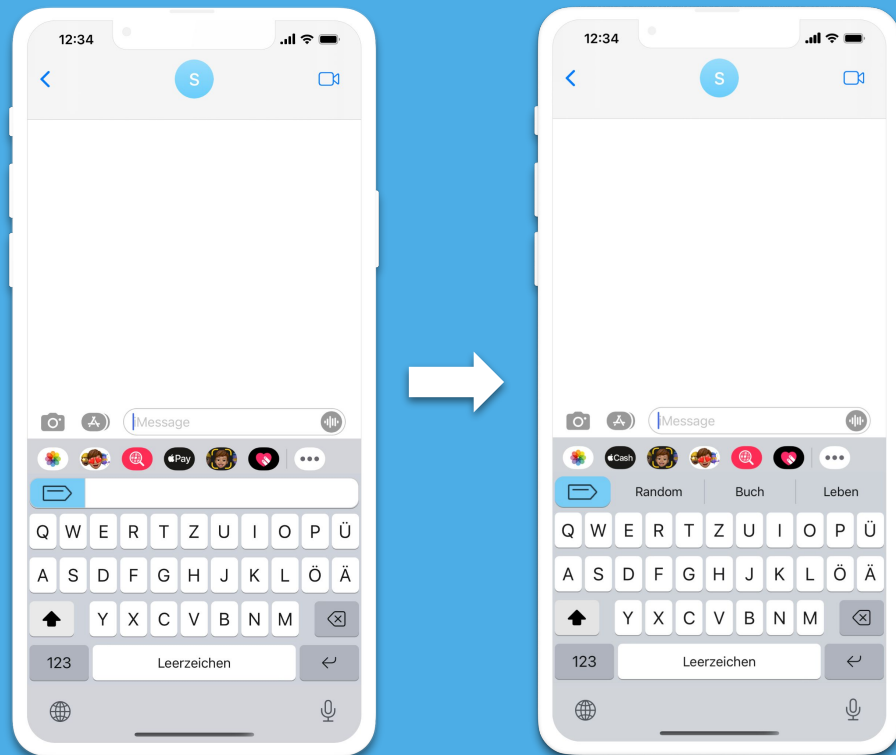


Overview

- Keyboards for second language learners
- “Never leave your keyboard”
- Noun genders, verb conjugations, translations, preposition cases
- French, German, Italian, Portuguese, Russian, Spanish, Swedish
- Open-source + open-data + open-community
- Wikimedia [featured project for new developers](#)
 - Join us to learn Swift, Kotlin, Python, WDQS and much more!

Wikimania Hackathon

- Prepare iOS UI for autosuggest **A✓**
- Autocomplete function **S✓**
 - Next alphabetical nouns
- Running function after each keypress **S✓**
- Assign words and insert them on key press **A✓**
- Android code refactoring



iOS Demo

Scribe's German Keyboard

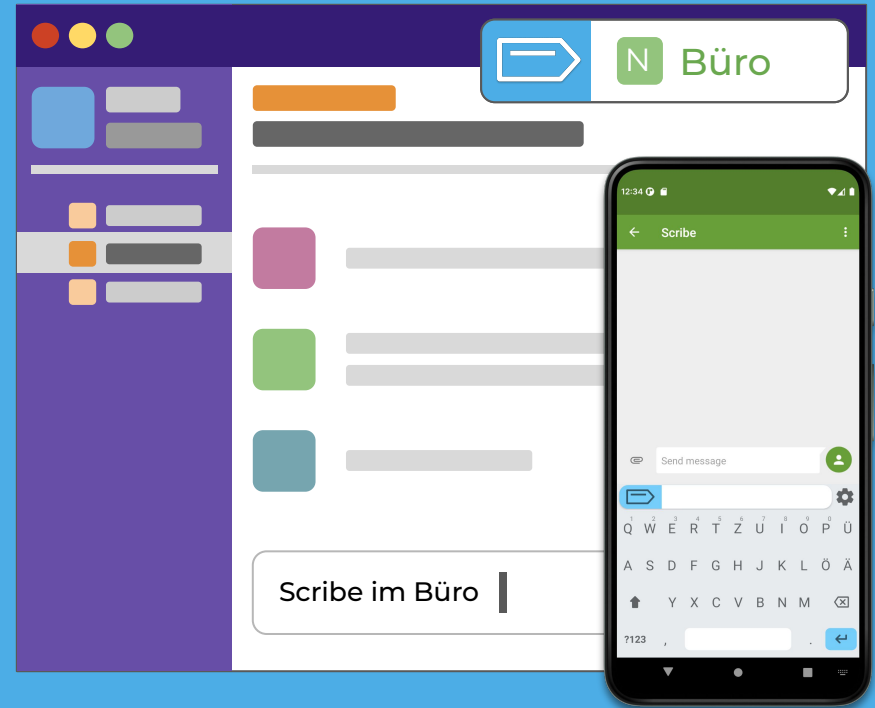
Wikidata Powered

- A collaboratively edited knowledge graph (CC0)
- Scribe uses [language data](#)
- [WDQS](#) queries for each word type of each language
- JSON outputs saved
- Data formatting (Python)
 - Outputs to Scribe apps
- Update takes ~10 min



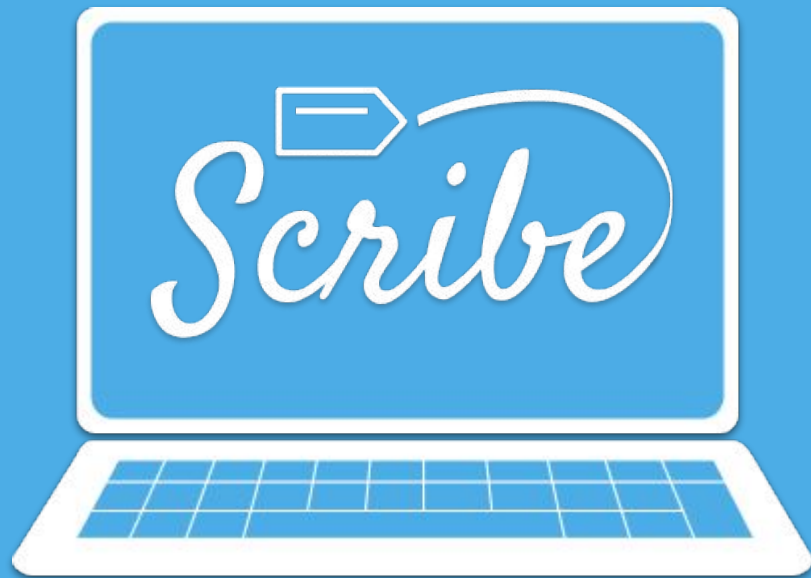
Future Plans

- Baseline autosuggest
- Coloration of auto-words
- [Scribe-Android](#) in Kotlin
- [Scribe-Desktop](#) GUI in Python
- NLP based Autosuggest, complete and correct
- More languages
 - Czech, Norwegian, Estonian, Hebrew and Danish all ready
 - See [Scribe-Data files](#)
- Language learning :)



Contributing

- Coders of all levels welcome!
- iOS
 - [Swift, Xcode](#)
- Android
 - [Kotlin, Android Studio](#)
- Desktop and Data
 - [Python, VS Code](#)
- Wikidata
 - [SPARQL Tutorial, WDQS](#)



Thank you for your interest in open-source!

To stay in touch or contribute:

<https://github.com/scribe-org>

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