

# Koniortos

A React Native App Powered by Proskomma

by Imad HAMZI and Mark HOWE

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# Proskomma Everywhere?

- in a Browser
- CLI (Node)
- Web Server (Node Express)
- Desktop App (Electronite/Chaliki)
- Mobile Devices?

# Questions

- How similar is React Native to React JS?
- What does React Native development look like?
- Can Proskomma run in a mobile environment?
- What does that look like?

# The Project

- Development by Imad HAMZI
  - First programming project!
  - 6 weeks
- Basic browse/search functionality
  - 5 New Testament texts in 4 languages
- Serverless

<Insert Demo Here>

# Answers – React Native

- Almost everything works just like React JS
- Main difference is RCL
- CSS typos can crash your app!
- Expo is easy for hello world but
- “Raw” React Native is better for complex apps
- Web emulation is poor
- Phone emulation is quite good but
- Still need to test on a real device
- Android versions?

# Answers - Proskomma

- Proskomma works well on Android
- C dependencies need to be optional
- Loading succinct JSON is quite performant
- Browsing is quite performant
- Search currently isn't, but...

# Answers – Proskomma Search

- Currently searching one book at a time
- $\therefore$  all books always searched
- Use bit arrays to filter books before search
- Try (harder) to display results as they are found
- Lazy search (pause after first X results found)



# Ionic

- The other, untested, mobile React framework
- + Relatively mature (based on Cordova)
- + Supports Progressive Apps
- + Supports more platforms
- - Web View (but Native work in progress)
- - Freemium model (eg for Native RCL)
- - Bigger, slower apps