

Demo of UIWear: Easily Adapting User Interfaces for Wearable Devices

Wearable Devices and Apps

Wearable devices (i.e., smartwatches) are becoming a major growth sector for computing...



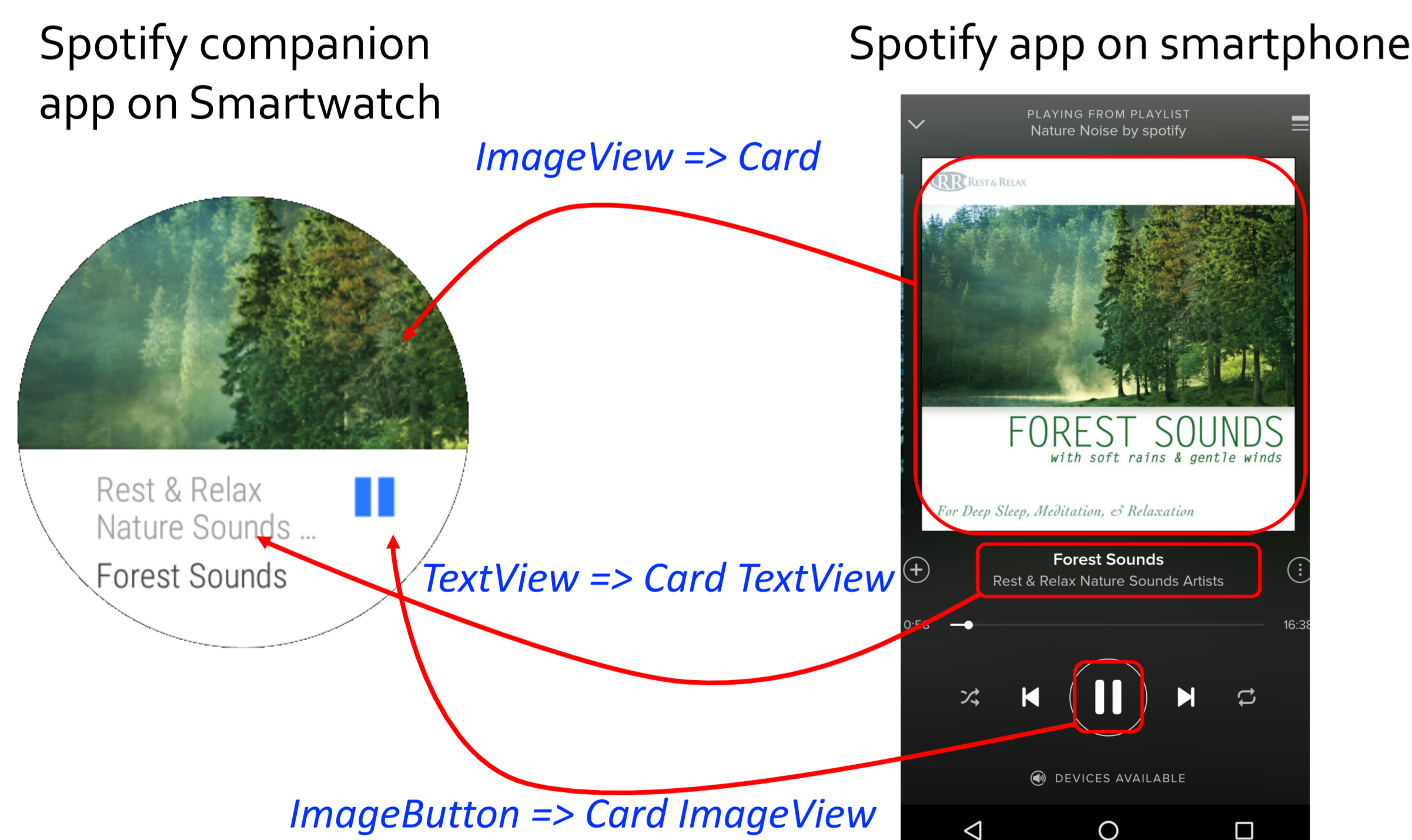
Most wearable apps are companion apps

78 of top 100 smartwatch apps in market are *companion apps* in our study



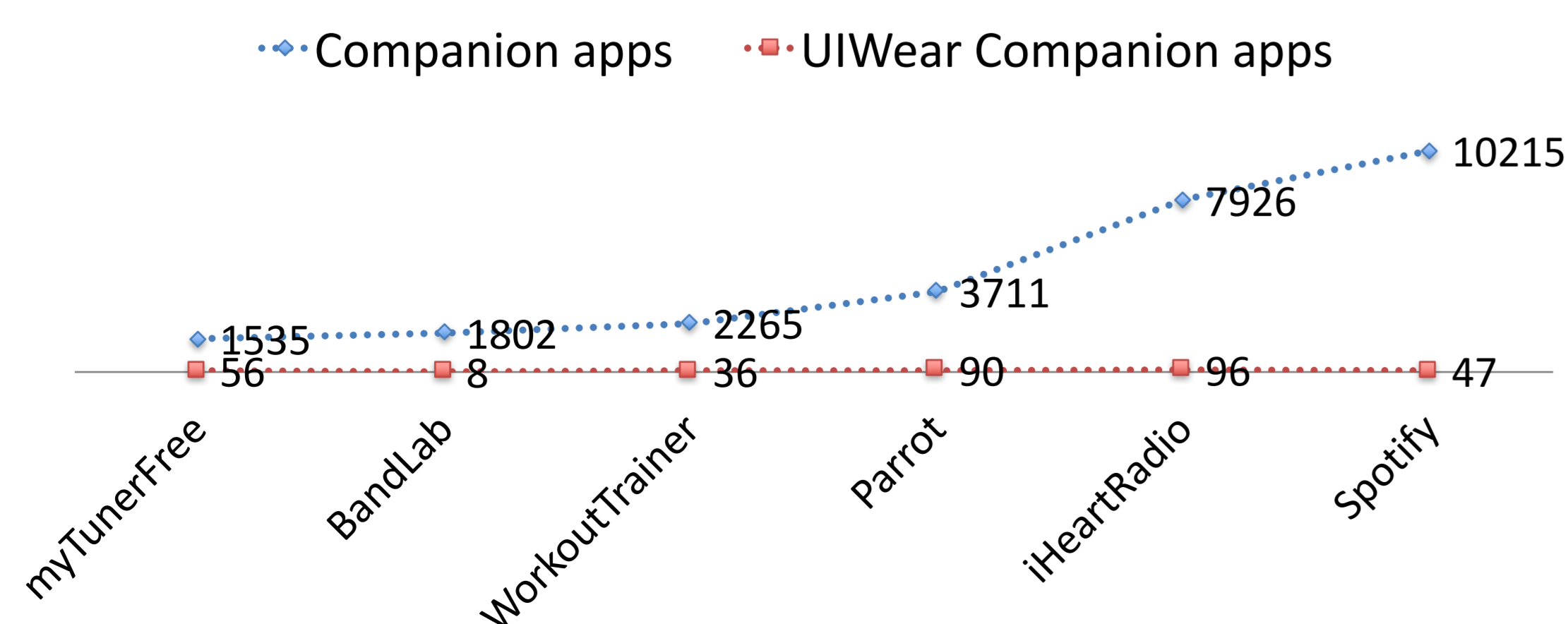
Companion App model

Spotify companion app retails UI from the smartphone app



Writing a companion app is extremely tedious

Lines Of Code (LoC)



UIWear

Goal

Easily build companion apps with minimal developer effort

Challenges

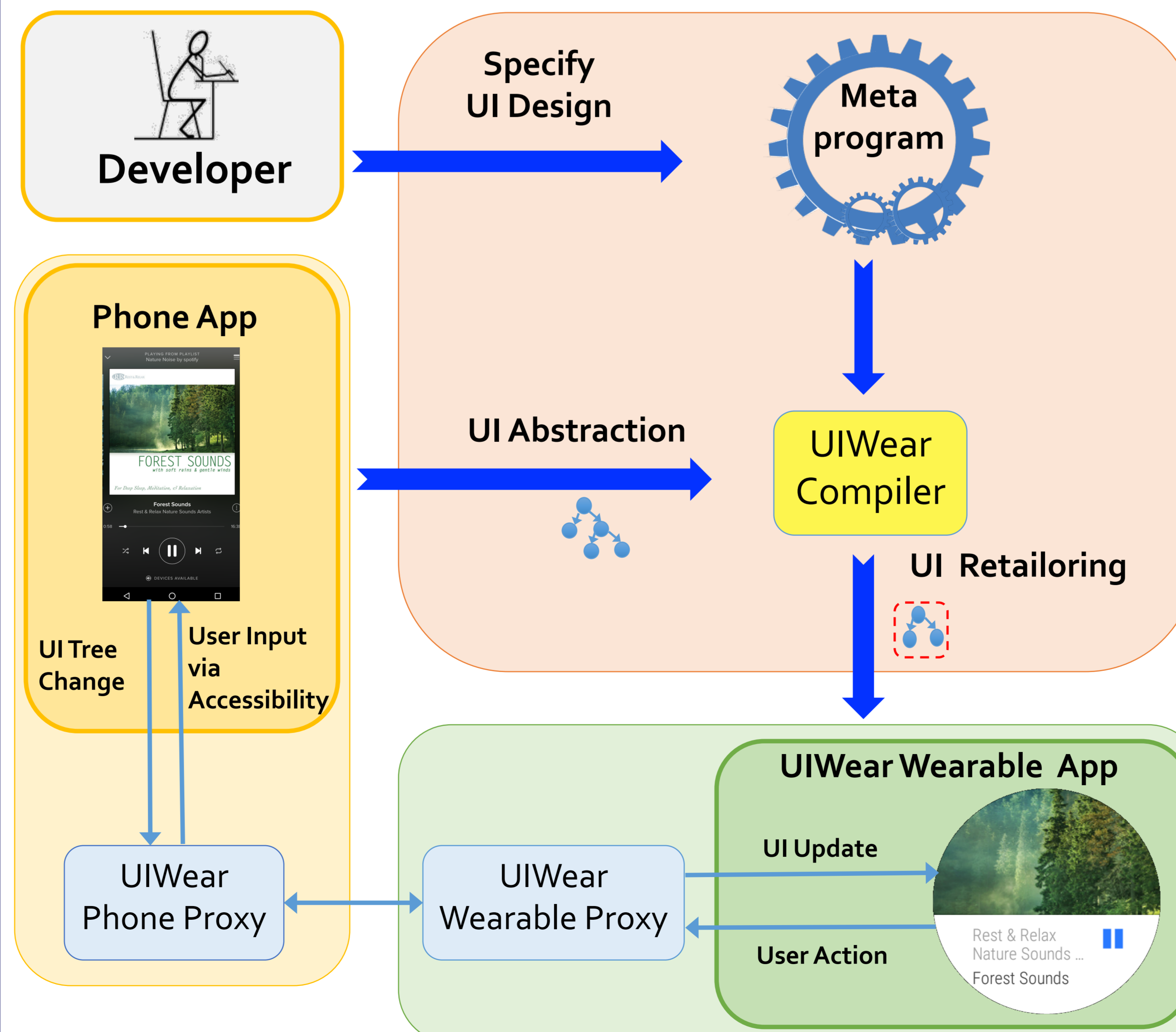
- Extract the logical model of the UI for cross-device interactions
- Perform UI synchronization even when the app is in the background

Idea

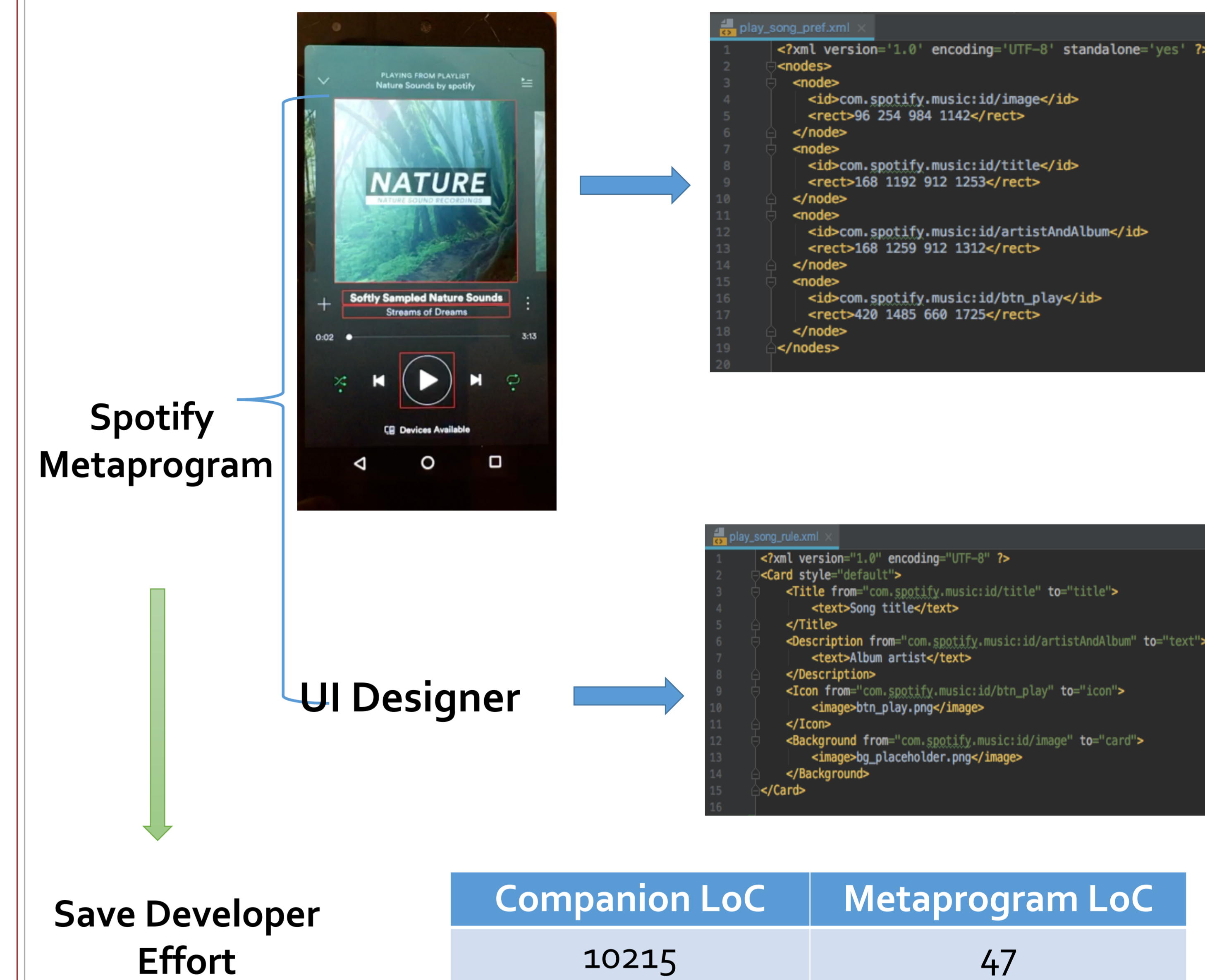
Decouple UI design from UI management

Developer writes a simple *meta program* for UI placement

UIWear creates a new companion app!



MobiCom Demo



Spotify UIWear Wearable APP

