



by Felix Wehnert



What am I talking about?

- CarPlay Systems
- CarPlay Audio Apps
- CarPlay Messaging Apps
- CarPlay Navigation Apps

Navigation Apps

- [Navigation App Programming Guide](#)
- This talk is a little guidance through the PDF

First Obstacle

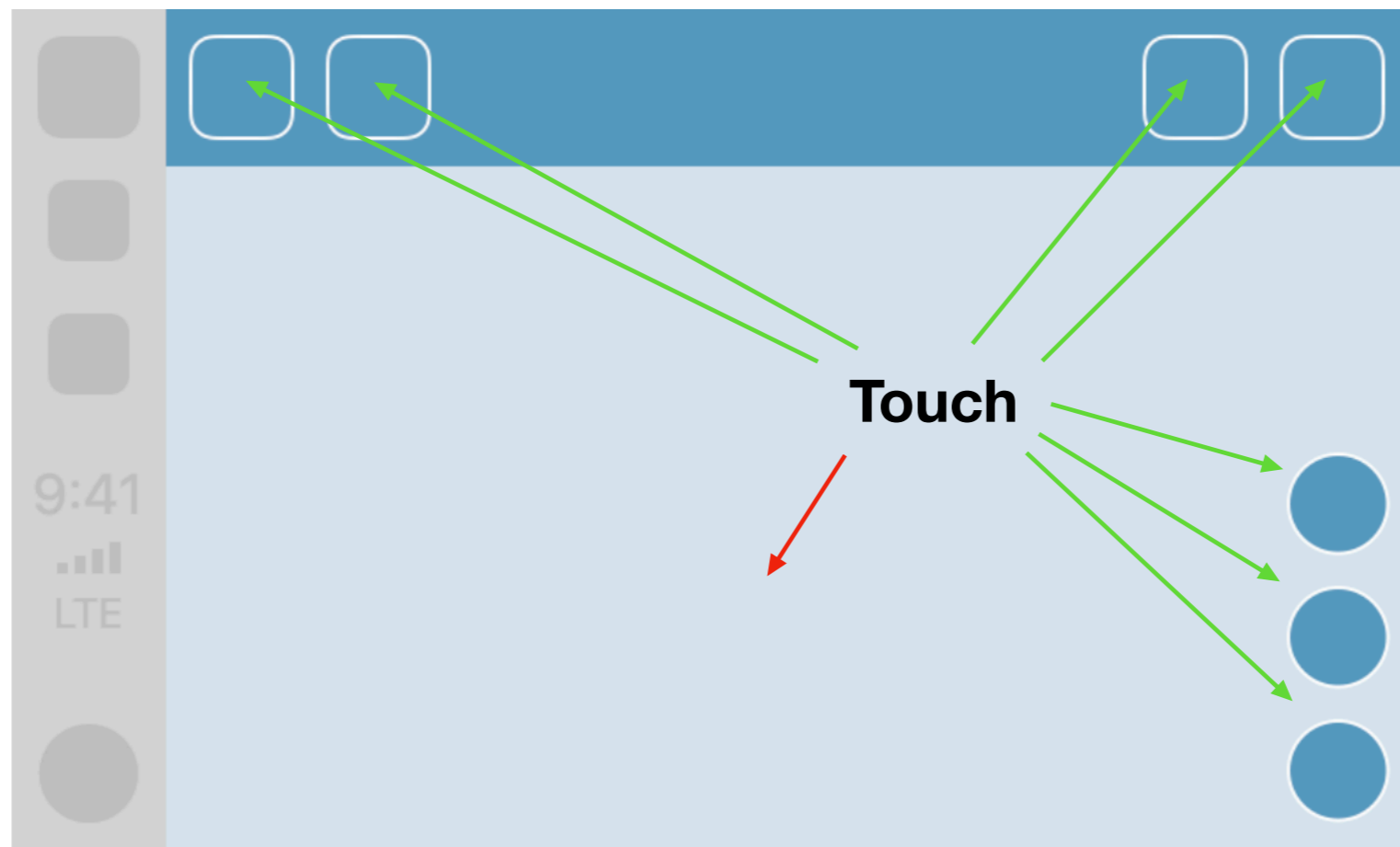
- “com.apple.developer.carplay-maps”-Entitlement
- <https://developer.apple.com/contact/carplay/>
- But you can test in the simulator
`defaults write com.apple.iphonesimulator CarPlayExtraOptions -bool YES`

Template System

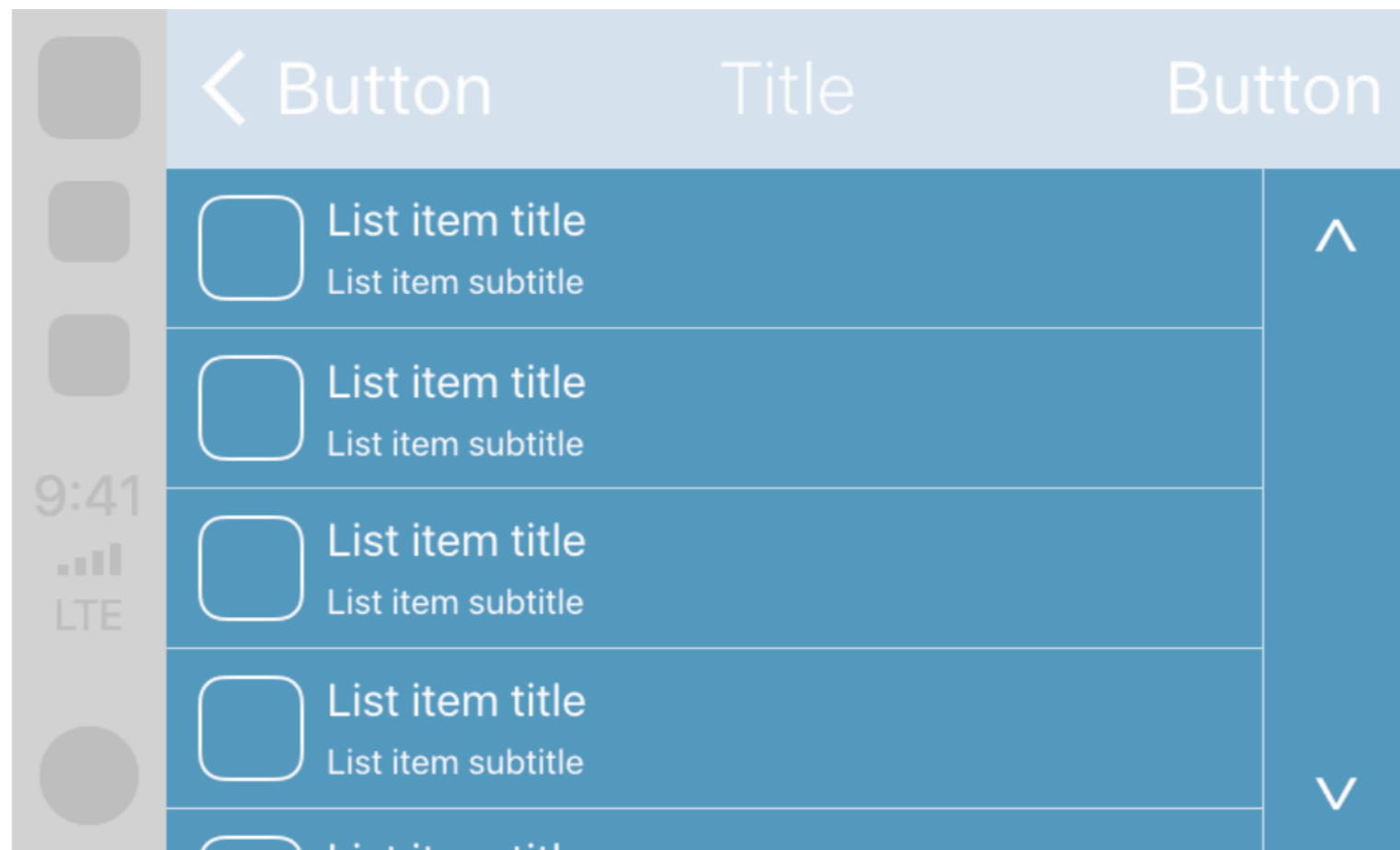
- No App extension, just a second UIWindow
- No custom UI



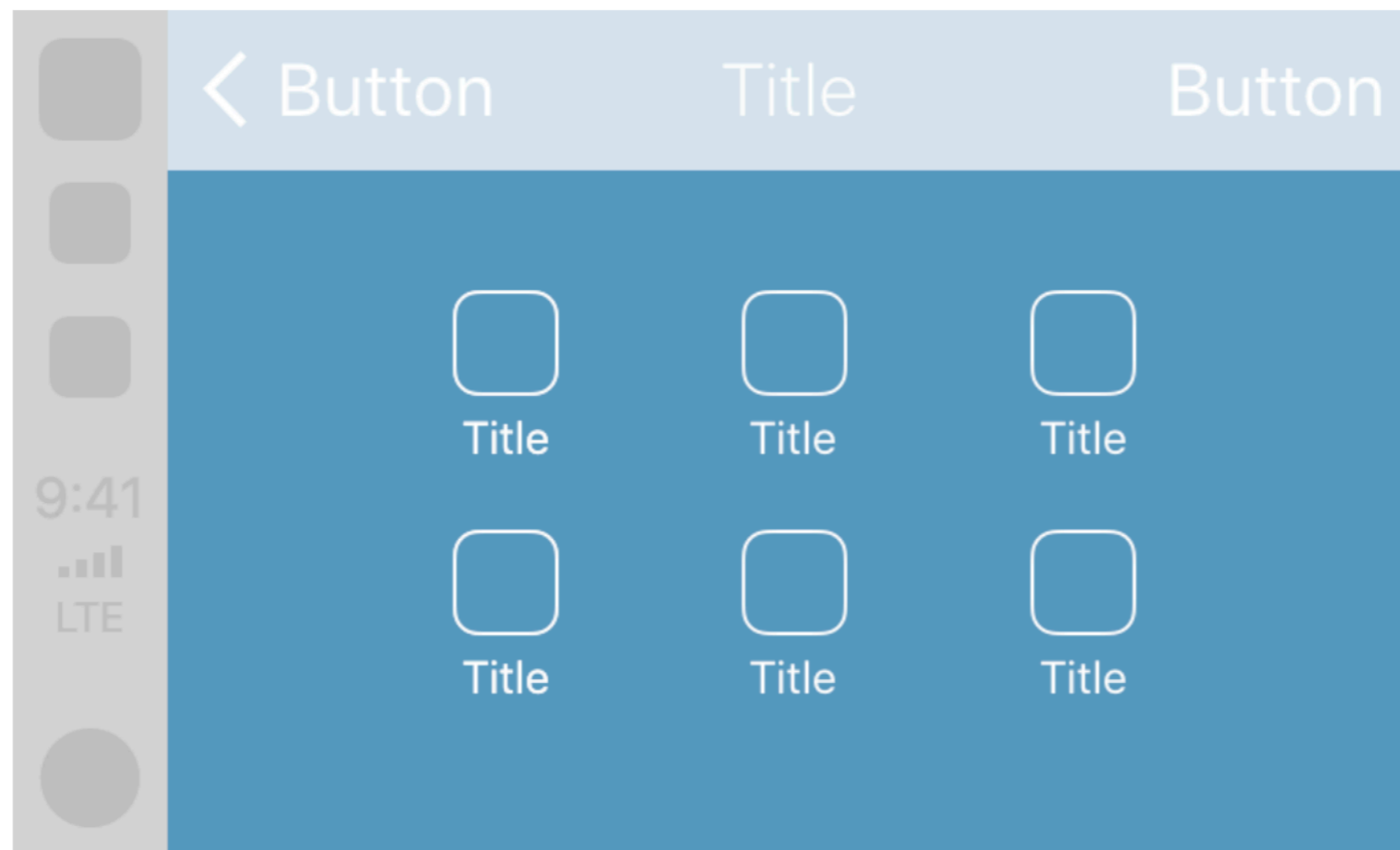
Map View



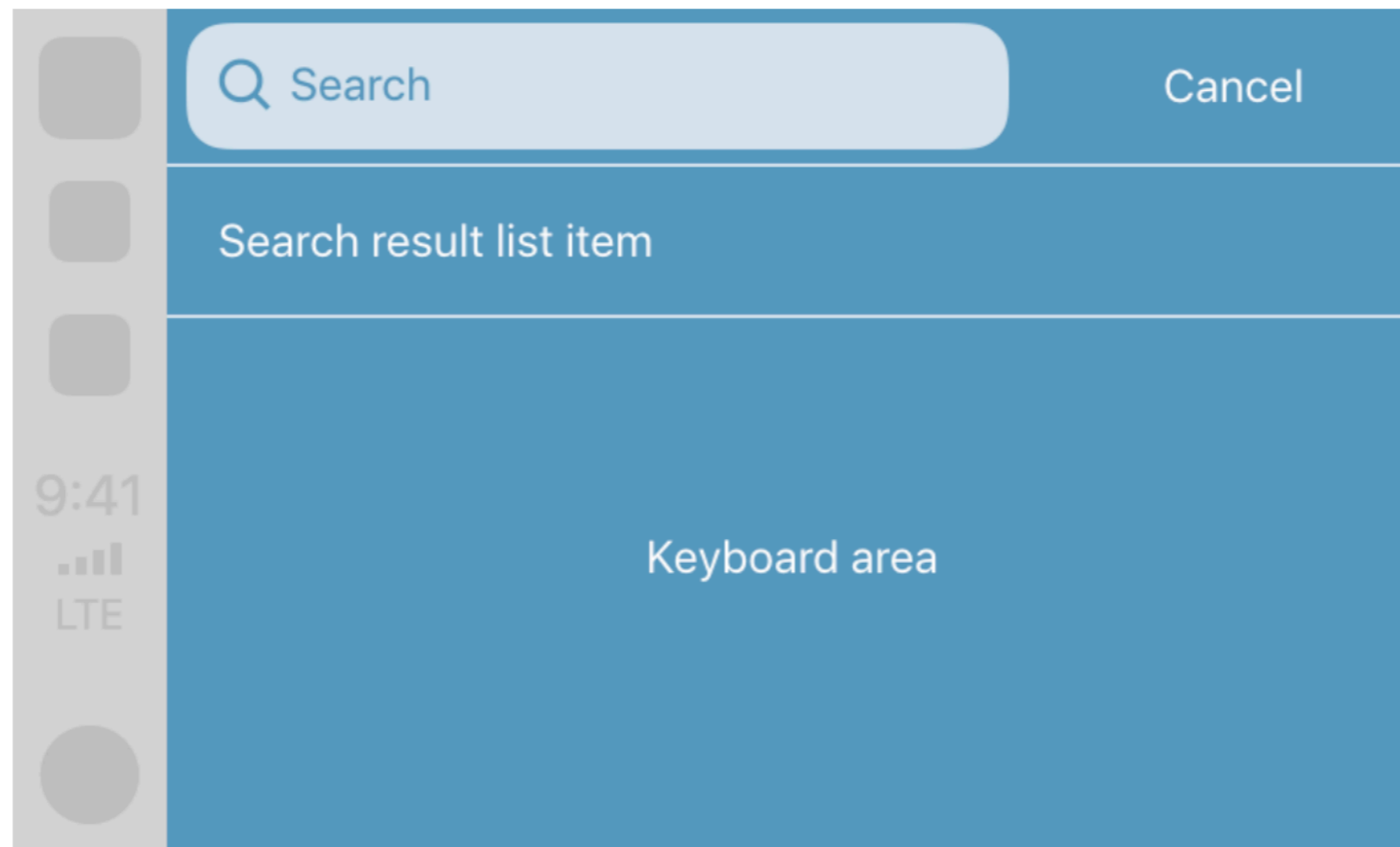
List Template



Grid Template



Search Template

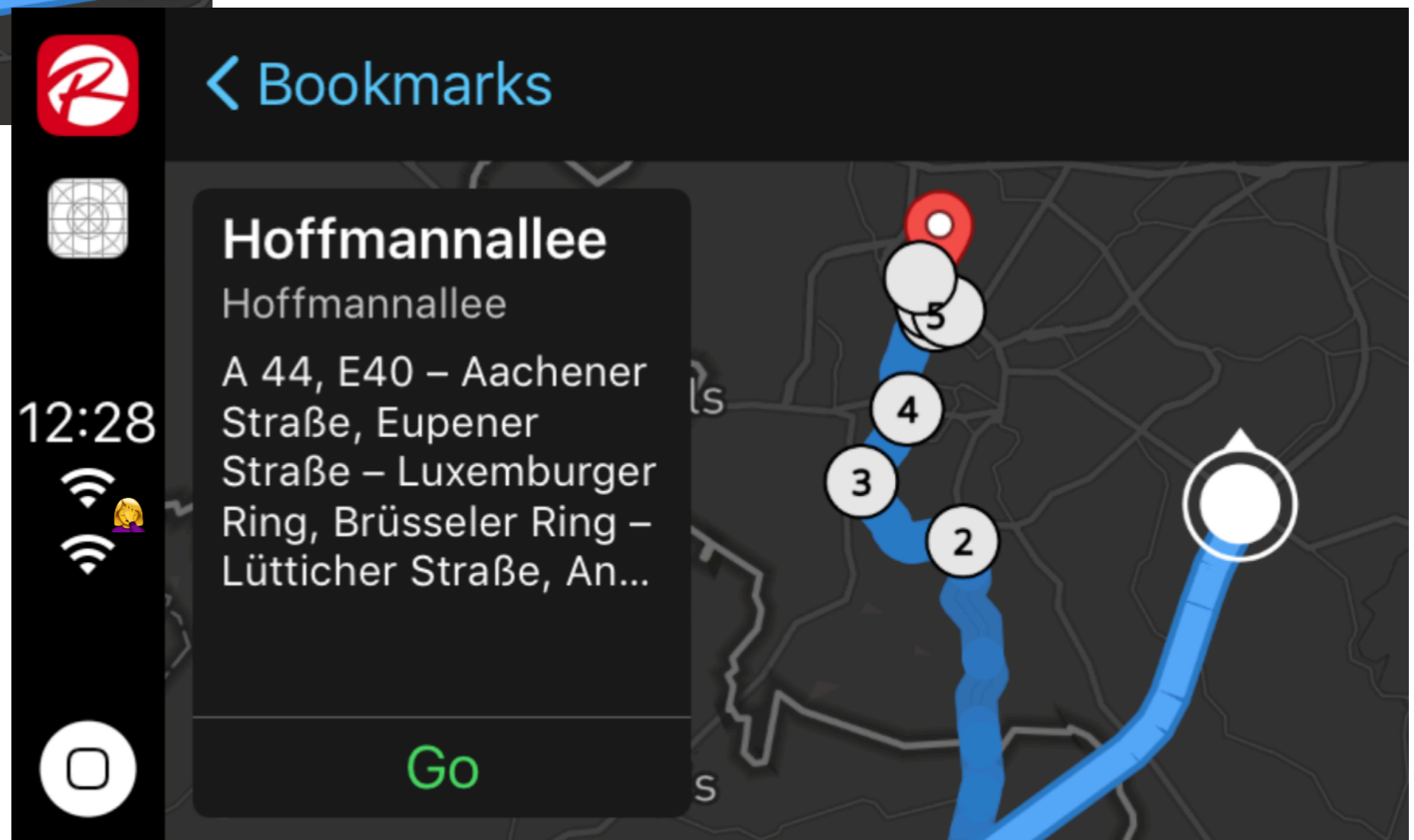


Trips



Route Guidance Panel

Trip Preview Panel



< Bookmarks

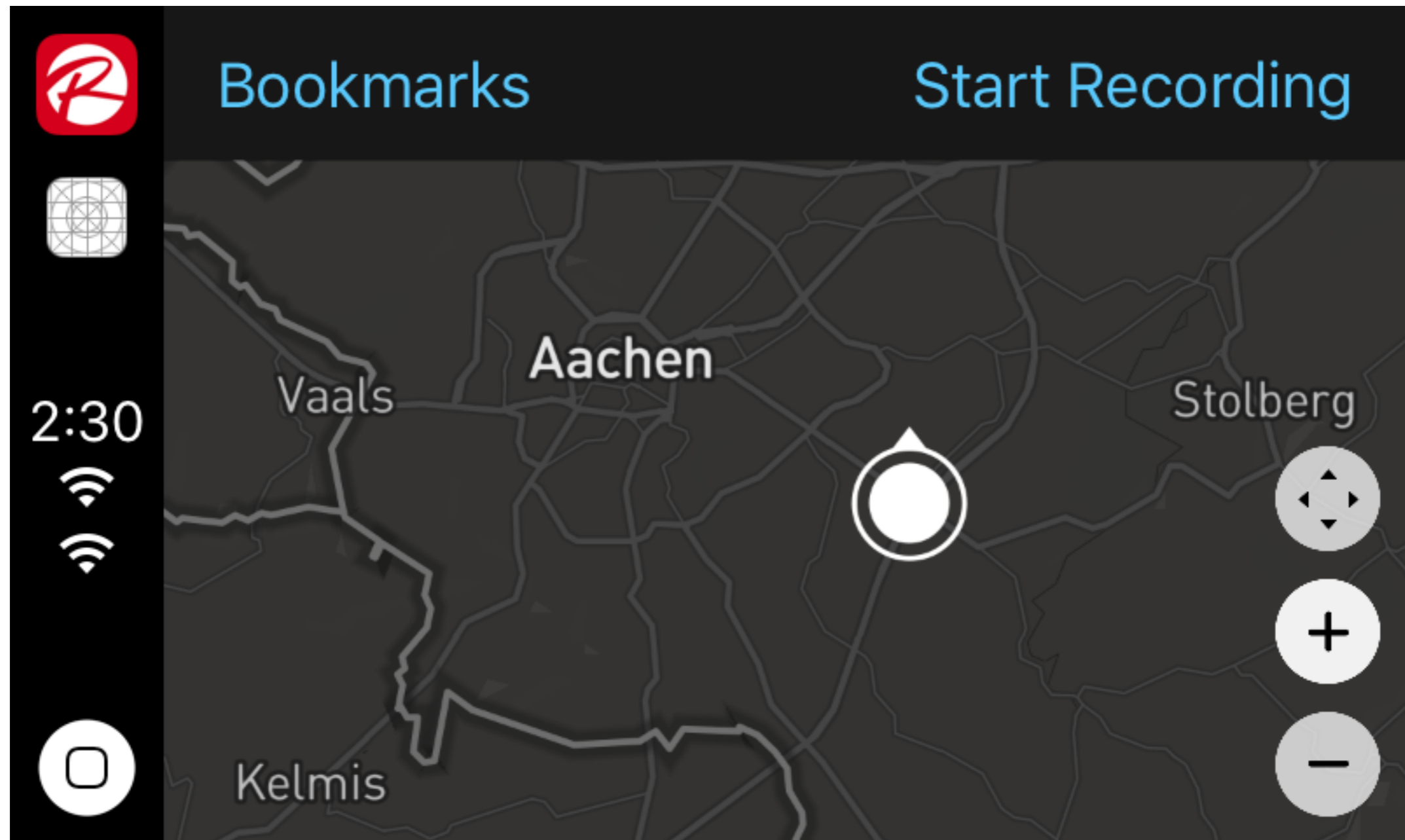
Hoffmannallee

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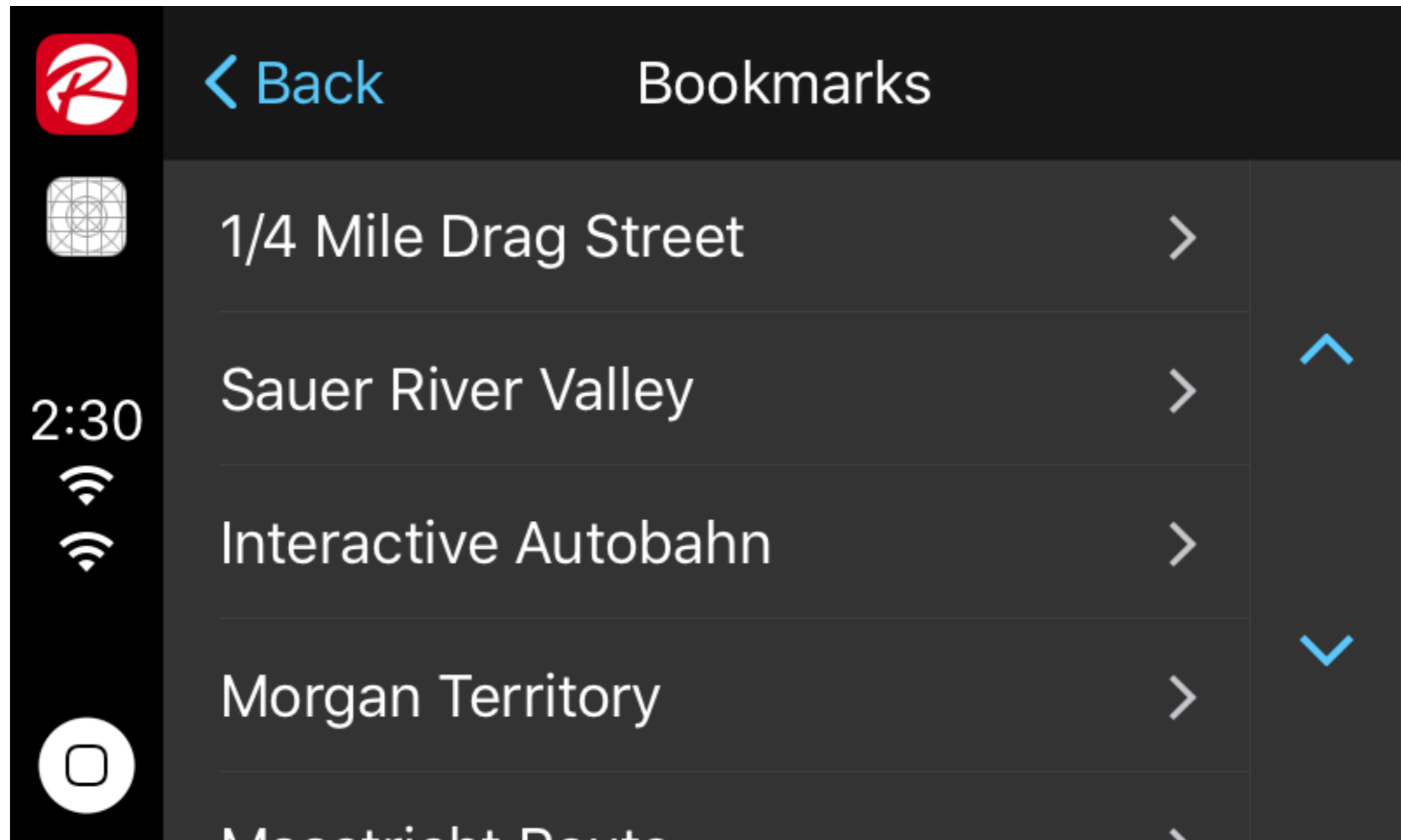
A 44, E40 – Aachener
Straße, Eupener
Straße – Luxemburger
Ring, Brüsseler Ring –
Lütticher Straße, An...

Go

RbP



RbP



General Classes

CPWindow
CPInterfaceController
CPIImageSet
CPSessionConfiguration

Template/UI Classes

CPTemplate
CPBarButton
CPMapButton
CPMapTemplate
CPActionSheetTemplate
CPAlertAction
CPAlertTemplate
CPGridButton
CPGridTemplate
CPListItem
CPListSection
CPListTemplate
CPSearchTemplate
CPVoiceControlState
CPVoiceControlTemplate

Navigation Classes

CPNavigationAlert
CPNavigationSession
CPTrip
CPTripPreviewTextConfiguration
CPTravelEstimates
CPManeuver
CPRouteChoice



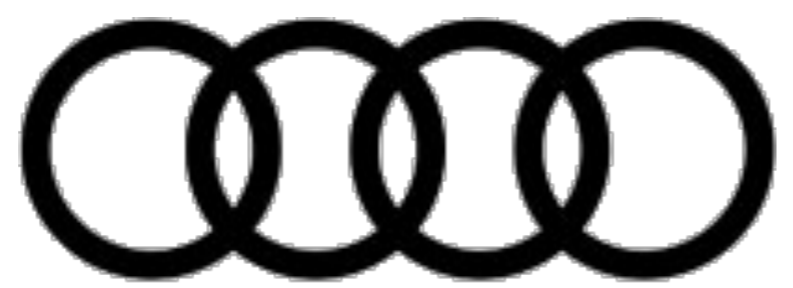


Buy a car radio!

- We use a Pioneer SPH-DA120
- 12V power supply
- Handbrake emulation dongle to enable firmware updates



Buy a car!



Audi



ŠKODA

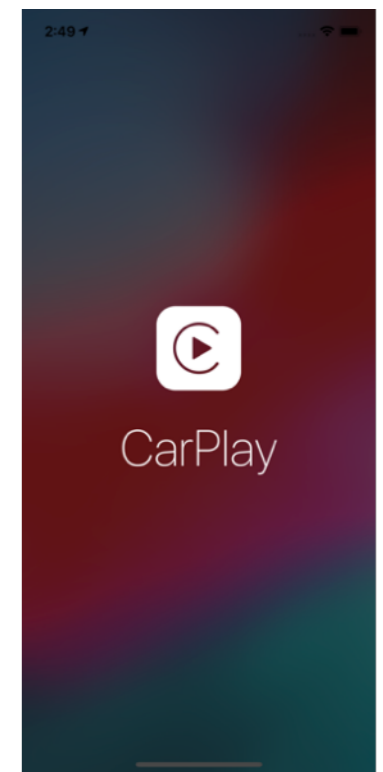


HAVAL



The development

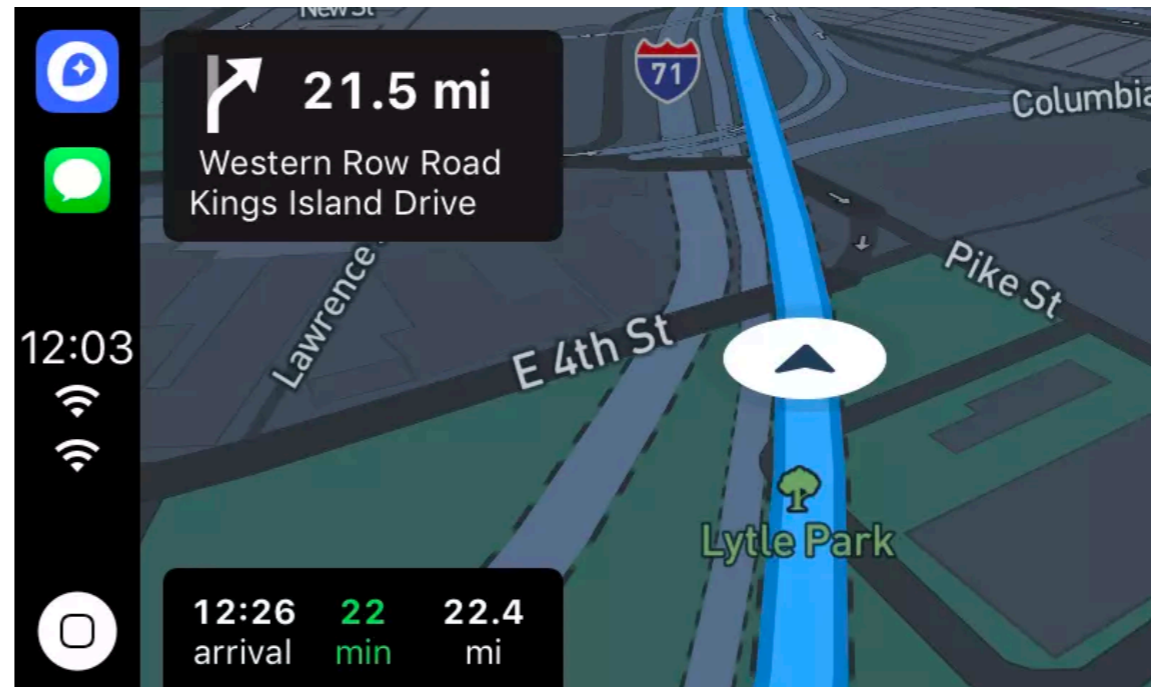
- CarPlay is running in-process
- No app extension
- New delegate method in AppDelegate with the new CPWindow and CPInterfaceController
- Create CPTrip and CPManeuvers by yourself



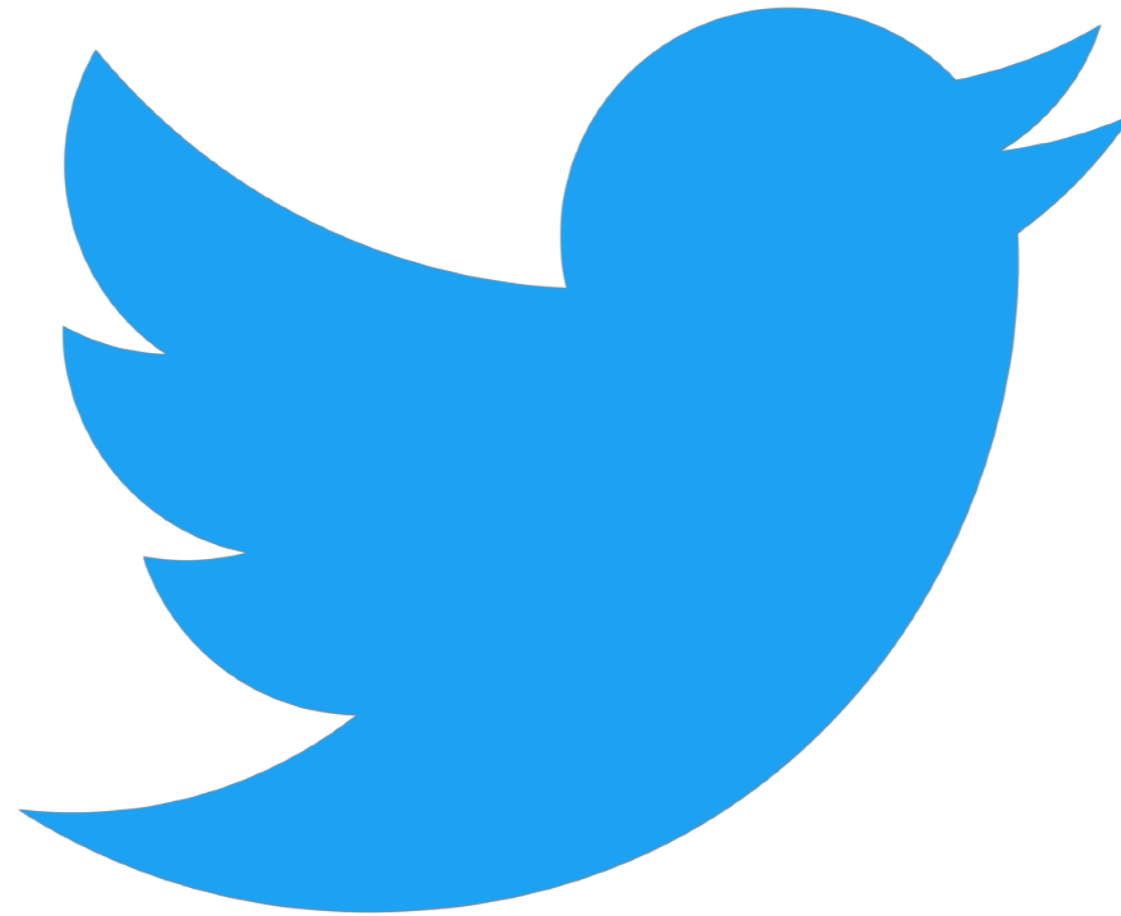


Mapbox Navigation SDK for iOS

- + Good tools for Browsing, Previewing, and Navigation
- + Custom Map style
- v0.x



Thank you!



@flashspys