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UNBOXING mapbox

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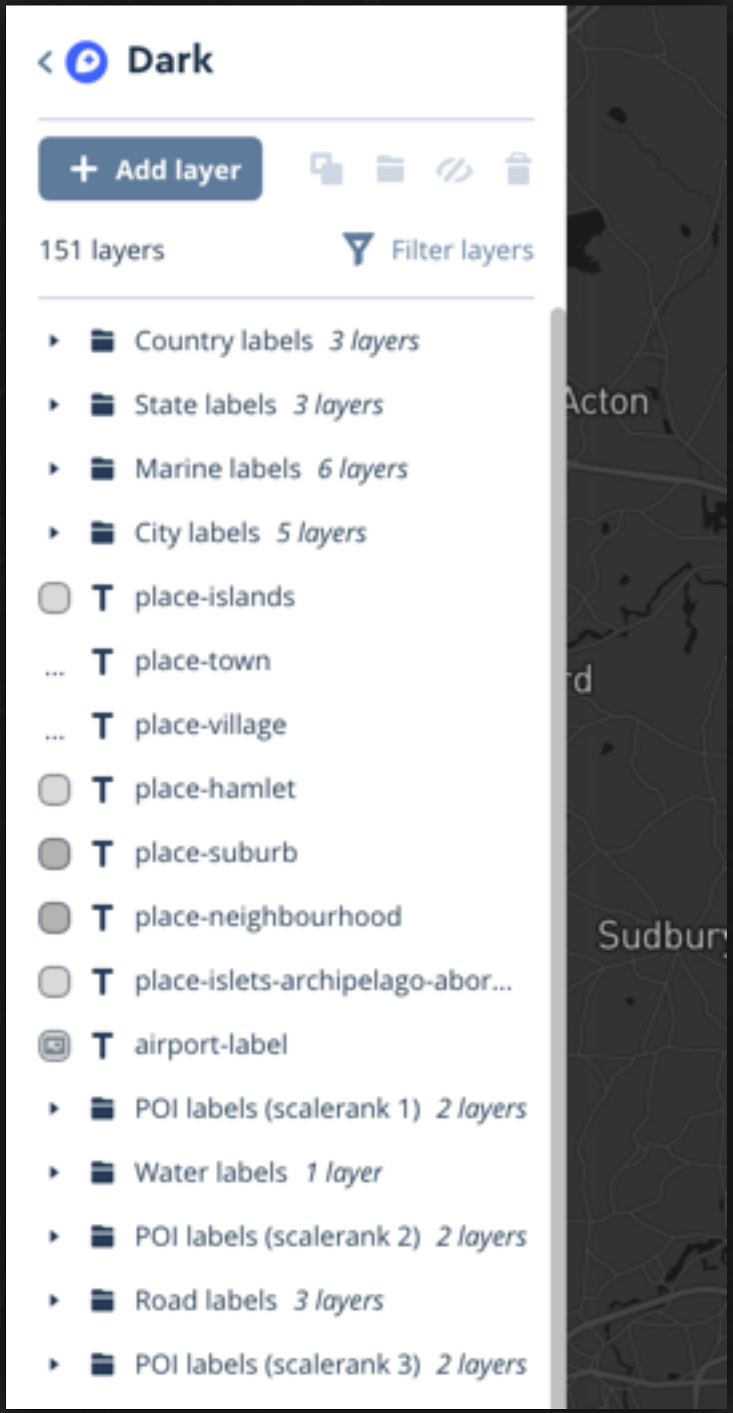
WHAT DOES MAPBOX DO?

- Beautiful, powerful and accessible map framework
- Powered by openstreetmaps.com
- Cross-platform support with native (partly open source) frameworks
- Pay-as-you-go pricing model

STYLING WITH MAPBOX STUDIO

- Style ~~nearly~~ **everything**
- Style custom data that will appear on the map
- Adjust color, font, sizes, blur, icons, text alignment and much more
- Very detailed categories to style



151 layers

- Country labels *3 layers*
- State labels *3 layers*
- Marine labels *6 layers*
- City labels *5 layers*
- place-islands
- place-town
- place-village
- place-hamlet
- place-suburb
- place-neighbourhood
- place-islets-archipelago-abor...
- airport-label
- POI labels (scalerank 1) *2 layers*
- Water labels *1 layer*
- POI labels (scalerank 2) *2 layers*
- Road labels *3 layers*
- POI labels (scalerank 3) *2 layers*

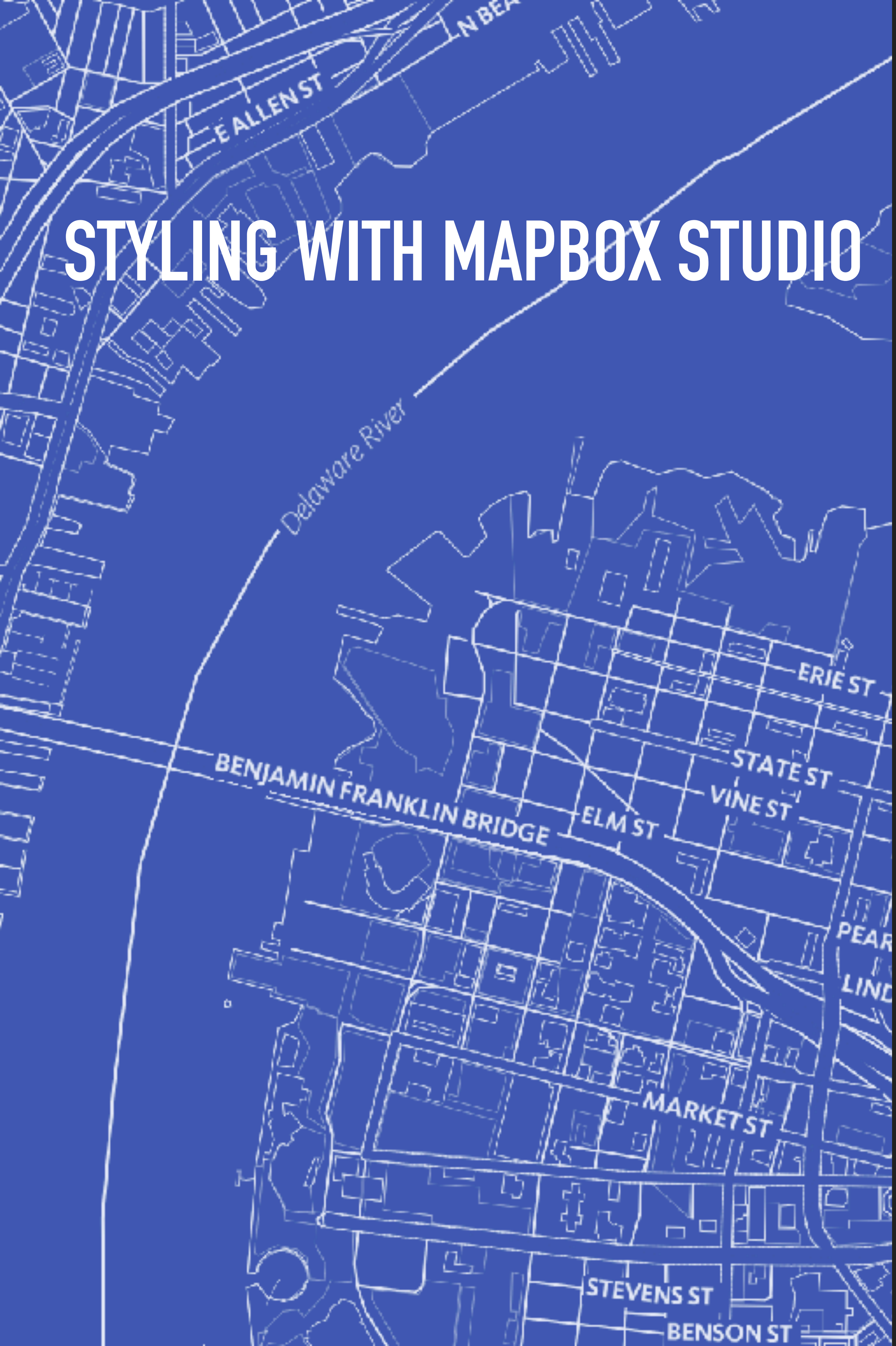
STYLING WITH MAPBOX STUDIO

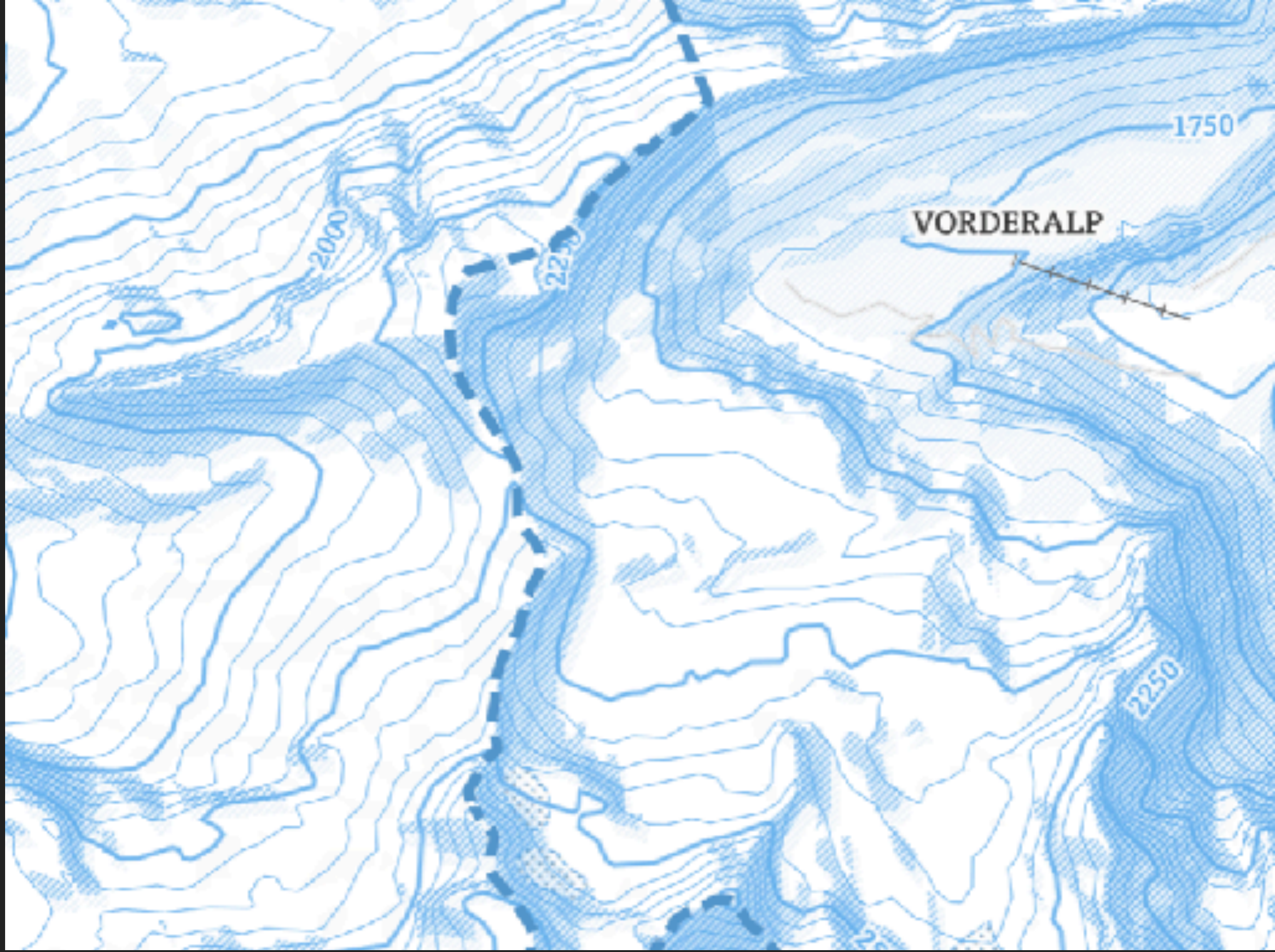
- Export style url from Mapbox studio
- Using your custom style in iOS:

```
let styleURL = URL(string: "mapbox://styles/icemanhh82/
                             cjg6amys40m1s2rppvjsq8giy")!

let mapView = MGLMapView(frame: mapContainer.frame,
                          styleURL: styleURL)
```

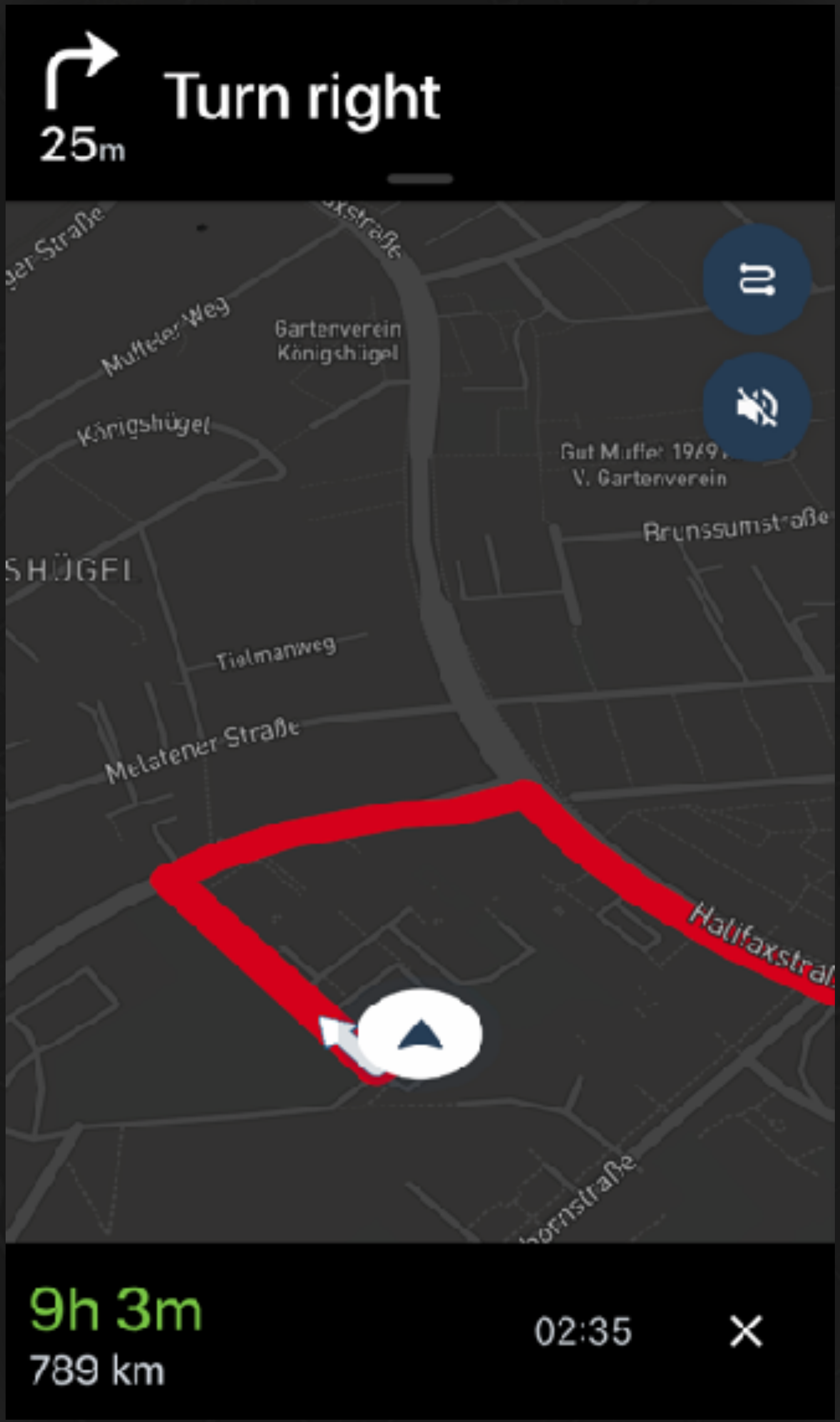
STYLING WITH MAPBOX STUDIO





TURN-BY-TURN NAVIGATION

- Prebuilt Turn-by-turn navigation
- Voice guidance
- Different UI for day and night
- Ready to use
- Custom styling support (limited)
- It is possible to create an own Turn-by-turn view from scratch



CAMERA

- Simple camera manipulation
- Create a camera
- Fly to it

```
extension MGLMapView {
    func flyToUser(trackingMode: MGLUserTrackingMode = .followWithCourse) {
        if let location = self.userLocation {
            let camera = MGLMapCamera(lookingAtCenter: location.coordinate,
                                         fromDistance: 200,
                                                pitch: 60,
                                              heading: 0)
            self.fly(to: camera, withDuration: 3) {
                self.userTrackingMode = trackingMode
            }
        }
    }
}
```

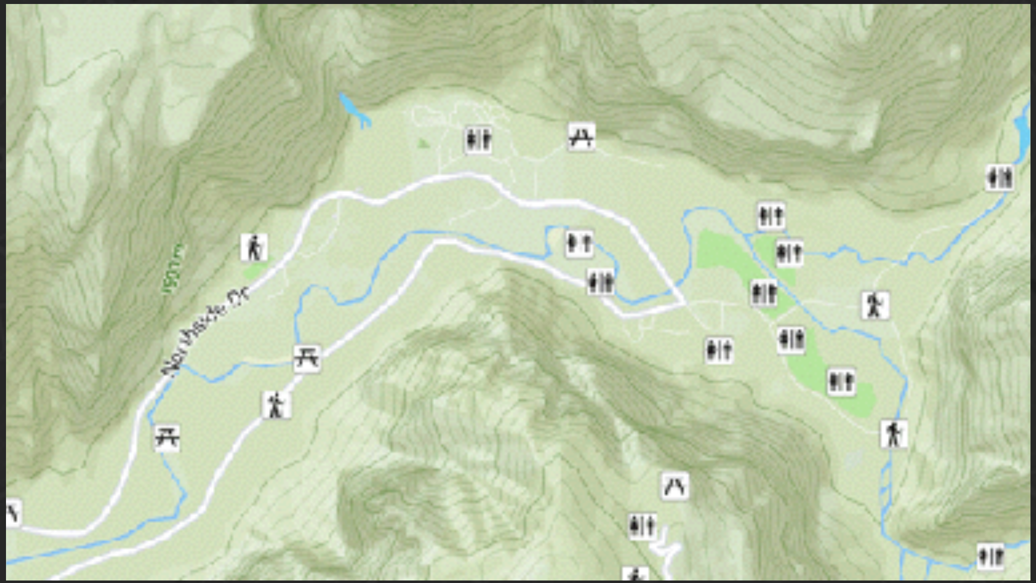
CAMERA

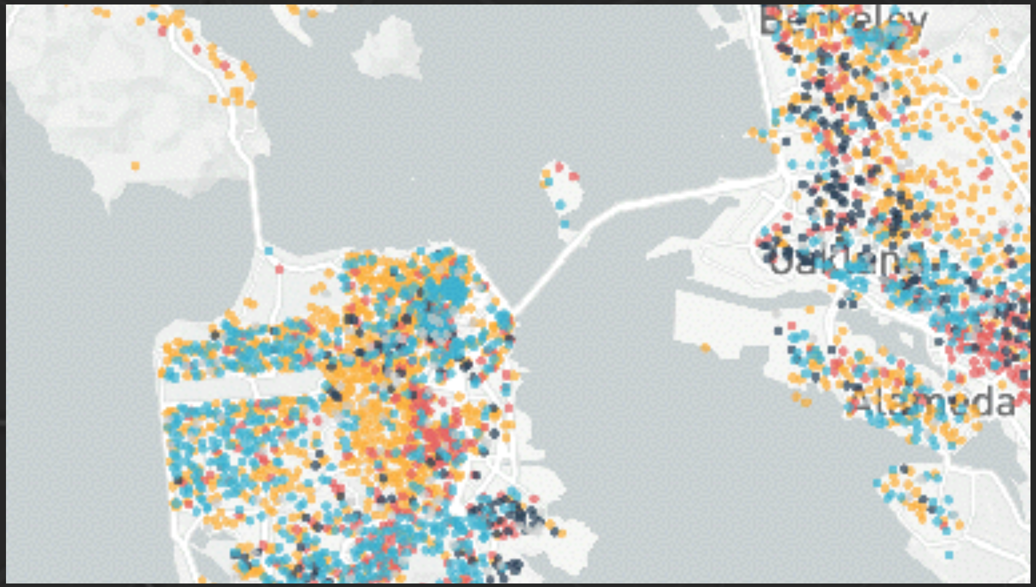
Telekom.de LTE
18:07
74 %
Havana's Forgotten Treasures
Explore
Roads
Record
Profile

ANNOTATIONS

- Completely customizable
- Annotate a map with custom `UIViews`
- Annotate custom or Mapbox data
- Various types of annotations to support even large datasets
- Clustering included

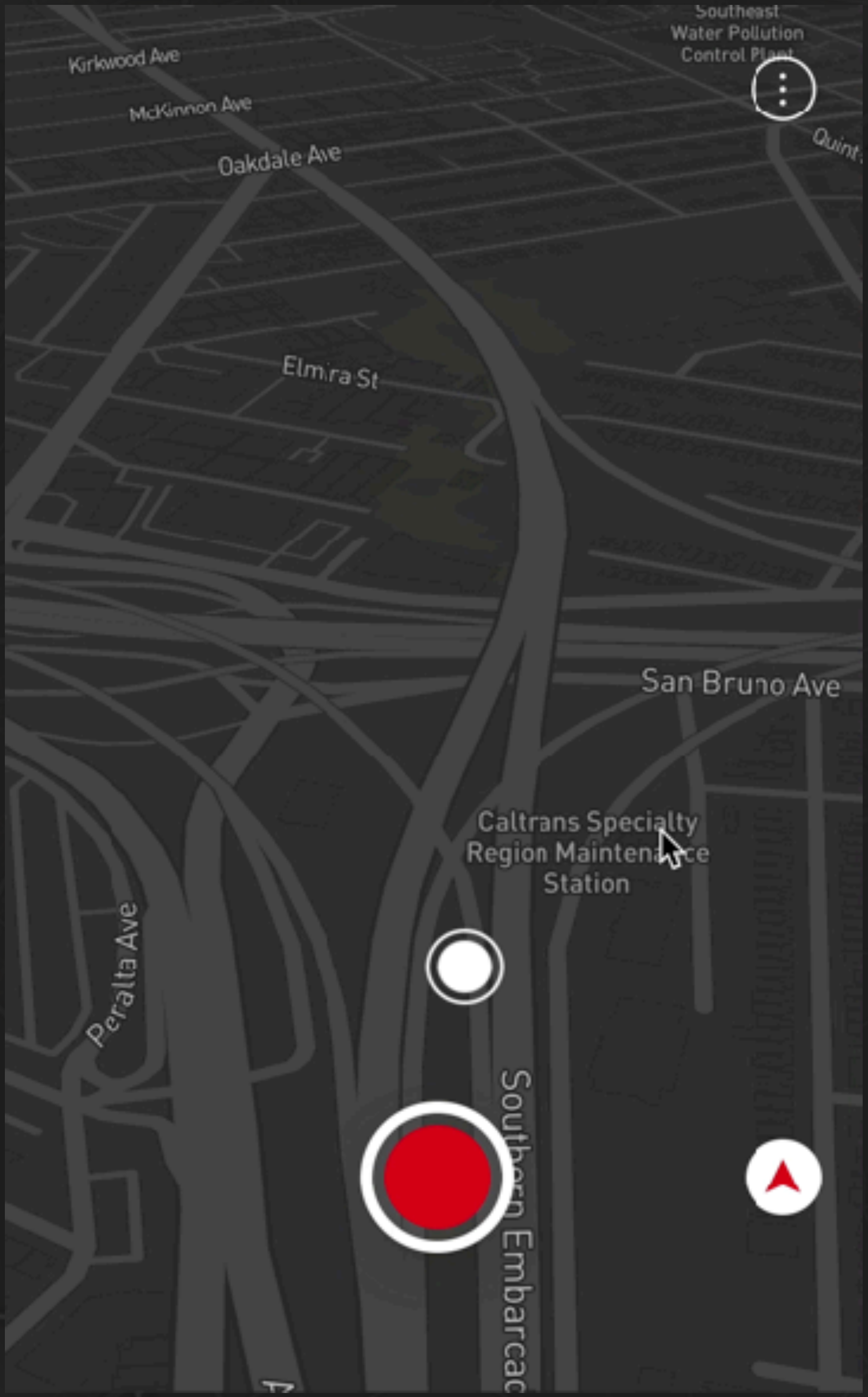
Hello world!





ANNOTATIONS

- Custom user location annotation
- Switching shape and color
- Rotation by driving direction



POLYLINES

- It’s easy to display polylines on a MGLMapView:

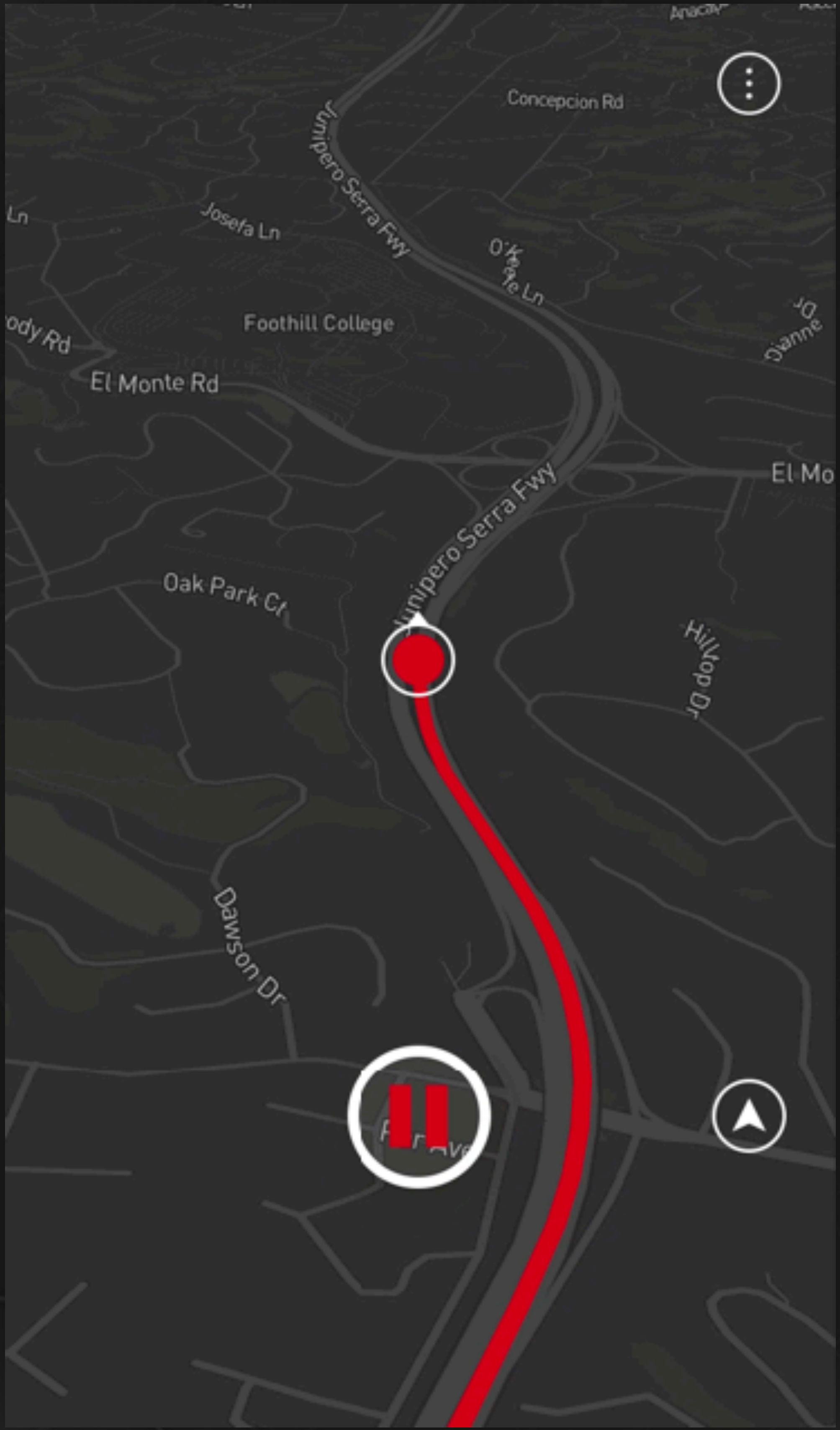
```
// First creating a MGLShapeSource to hold our polyline
let polylineSource = MGLShapeSource(identifier: "polyline",
                                         shape: nil,
                                       options: nil)

// Adding it to the mapView in MGLMapViewDelegate
func mapView(_ mapView: MGLMapView, didFinishLoading style: MGLStyle) {
    style.addSource(polylineSource)
    style.addLayer(polylineSource.porscheStyle)
}

// var mutableCoordinates: [CLLocationCoordinate2D] from somewhere
// If we want to display the coordinates we need to:
let polyline = MGLPolylineFeature(coordinates: &mutableCoordinates,
                                        count: UInt(mutableCoordinates.count))
polylineSource.shape = polyline
```

POLYLINES

- Customizable color
- Independently configureable zoom levels
- Joining of multiple lines
- Style the end points of lines



SOURCES

- Custom user location annotation
- Interactive Pioneers
- Gallery | Mapbox

PIZZA

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