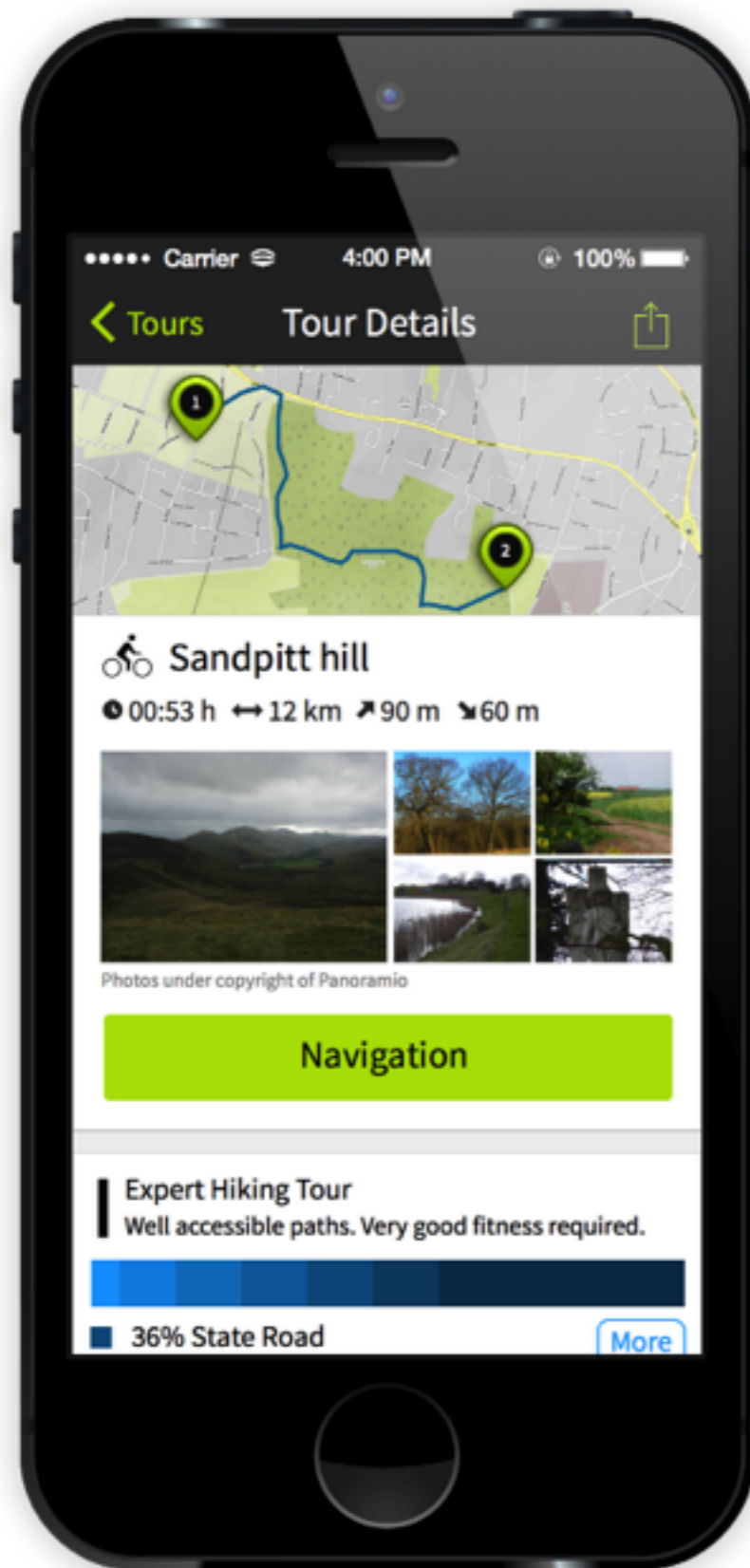


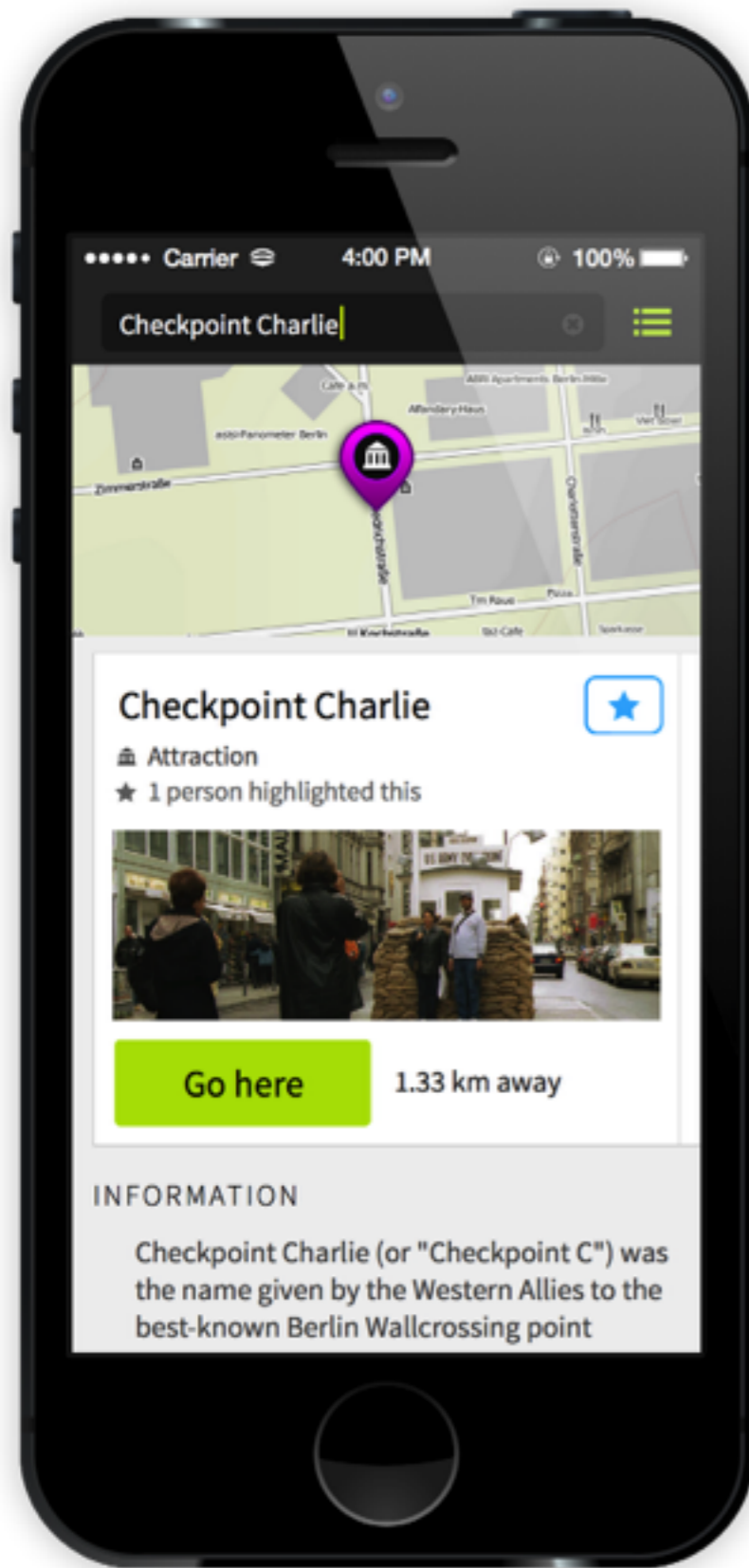
# OSM-Geocoding with Lucene

Christoph Lingg – [komoot.de](http://komoot.de)

Was ist komoot?



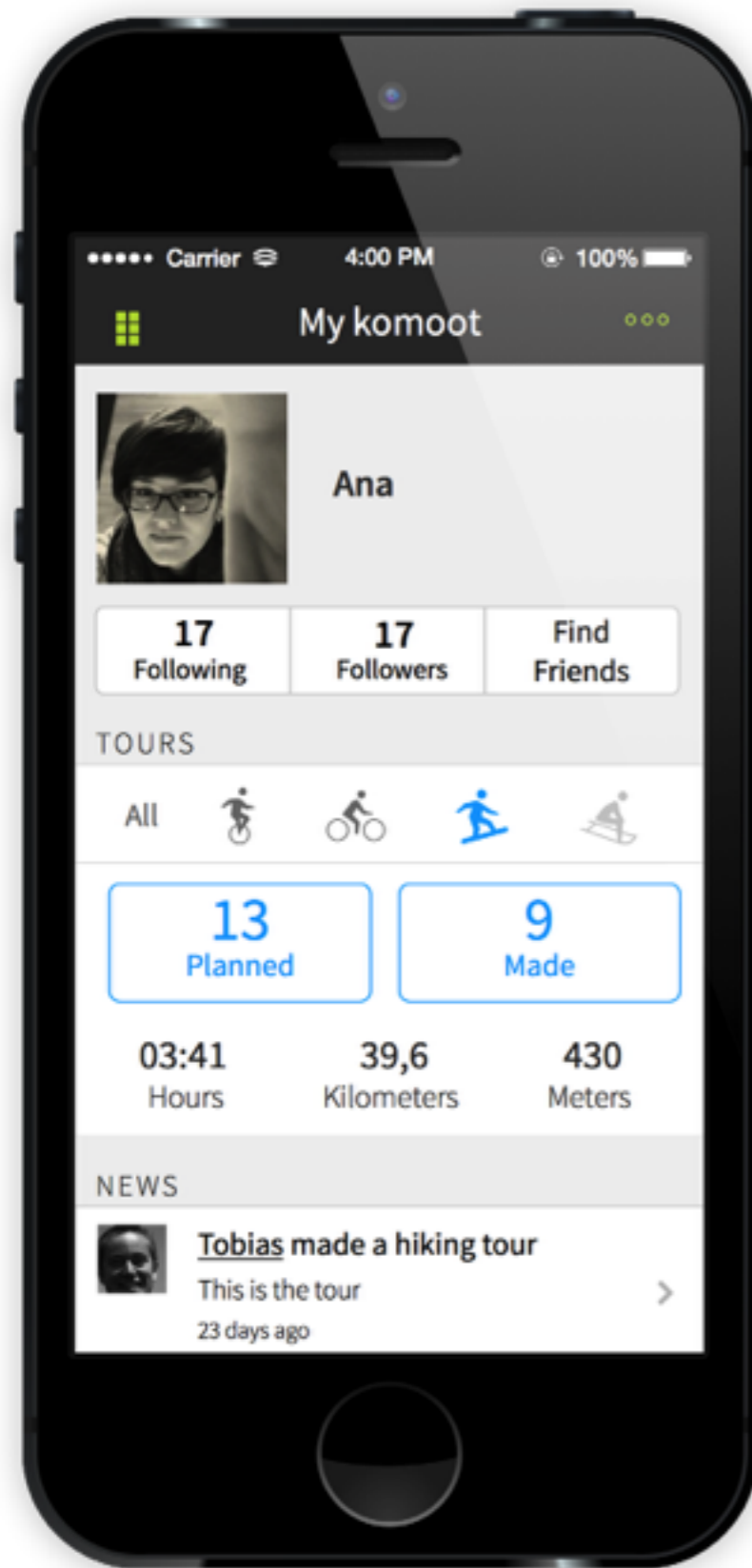
# Route Planning



Start  
Exploring

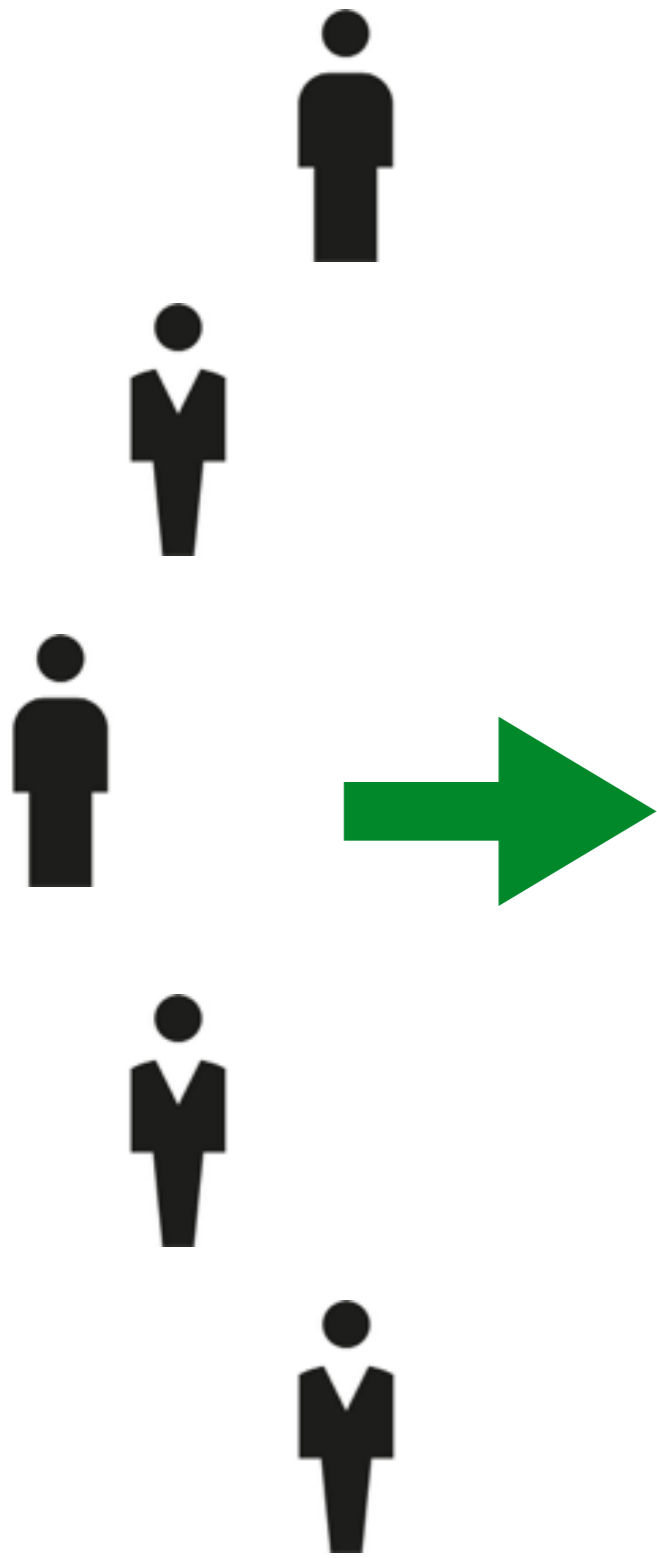


# Voice Navigation

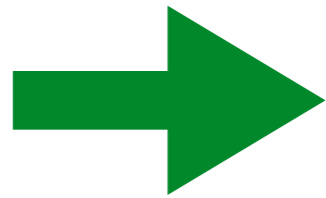


# Active Outdoors

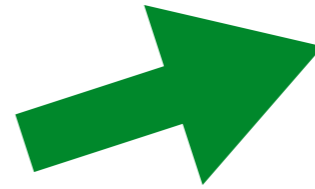
Wieso ist Geocoding  
wichtig für OSM?



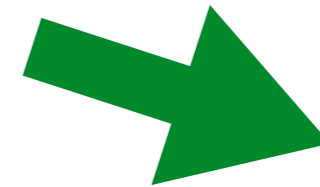
mapper



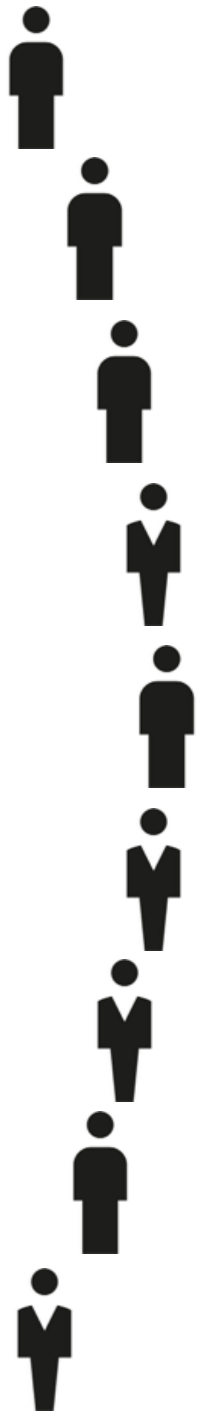
open data



Karte



Geocoding



consumer



Was macht einen **guten**  
Geocoder aus?

# type-ahead search

**yor**

search

**York** UK

**New York** USA

# Rechtschreibfehler

**birmnigham**

search

**Birmingham** UK

# Schnelligkeit

**birmingham**

search

**Birmingham** UK

# Synonyme

**aston rd**

**search**

**Aston Road** UK

# Positionsbezogen

**Hauptbahnhof**

search

**Hauptbahnhof** Berlin

**Hauptbahnhof** Potsdam

**Hauptbahnhof** Hamburg

# OSM-Herausforderungen

- Viele Daten ~ 100.000.000 Sucheinträge
- Unterschiedliches Mapping
- Teilweise unvollständige Daten
- Komplexe Vorverarbeitung

# photon

Open Source Geocoder von komoot

demo



# photon's stack

flask

elasticsearch

Nominatim Exporter

Nominatim Datenbank

# photon's features

- ✓ type-ahead search
- ✓ schnell
- ✓ skalierbar
- ✗ Rechtschreibfehler
- ✗ kontinuierliche Updates

# photon nutzen

## **Eigene Serverinstanz**

<https://github.com/komoot/photon>

## **Öffentliche API / Leaflet Plugin**

<http://photon.komoot.de>

# beitragen

**Feedback / Bugs**

<https://github.com/komoot/photon>

**Photon-Sprint: April/Mai**

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[christoph@komoot.de](mailto:christoph@komoot.de)