

Building a geo-aware OS

Zeeshan Ali (khattak)

NO KAT PICTUREZ!

What am I babbling about?

Geo-aware GNOME



Geoclue

Over-complicated

Geoclue2

Simple

Privacy

3 sources

Mozilla Location Services

GeoIP

Accuracy: City-level



Accuracy: 100-300 meters

♥ Thank you Mozilla! ♥

ModemManager

3G

Accuracy: a few KMs

GPS

Most accurate

Network NMEA

Network data contribution



geocode-glib

Geocoding & Reverse-geocoding

Nominatim

libchamplain

OpenStreetMap (OSM)



GraphHopper

Maps

GNOME 3

Swedish conspiracy!?!?



libgweather

Mandatory demo

Raspberry Pi

Maps

Fake privacy

Automatic timezone update

Future



xdg-app 

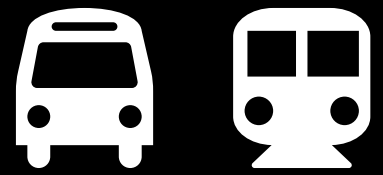
We want more users of Geoclue!

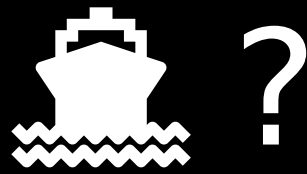


Gecko & Firefox OS



Qt, KDE & Jolla







Client-side map rendering

Map caching

Map editing

Hosting resources

Thanks for listening



<http://wiki.gnome.org/Apps/Maps/>

<http://geoclue.freedesktop.org/>

<https://live.gnome.org/libchamplain/>