Project work

- Mandatory part of the course
- In groups of 1-3 people
- About 2 credits of workload per person
- Return at the end of the course by email
Project work

- "Analysis-based"
  - Set a research question related to location awareness
  - Implement, run, and evaluate with an open dataset
  - Present your findings as a research article kind of report with relevant references

- "Implementation-based"
  - Design an application using location awareness
  - Implement, test, and evaluate your application
  - Return your code and a short report describing your work
Example datasets

- Multiple different datasets: http://crawdad.org/
- Foursquare:
  https://sites.google.com/site/yangdingqi/home/foursquare-dataset
- Graphs: https://snap.stanford.edu/data/
- GeoLife GPS trajectories:
- NYC taxi data: http://www.andresmh.com/nyctaxitrips/
- A long list (e.g. more transportation):
  https://github.com/caesar0301/awesome-public-datasets
Topic ideas

• Analysis
  – Use reference lists from the end of the slides and/or other articles
  – Choose an interesting one and implement it

• Applications:
  – Indoor localization at the campus/Exactum
  – Your own location-aware game
  – Practical implementation of an algorithm presented in the course