Thesis Topics

Sommersemester 2016
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HTW Berlin

My main interests

- Web Engineering

- Software Engineering, Agile Software Development, Software Design, Infrastructure Automation

- Learning and Social Web

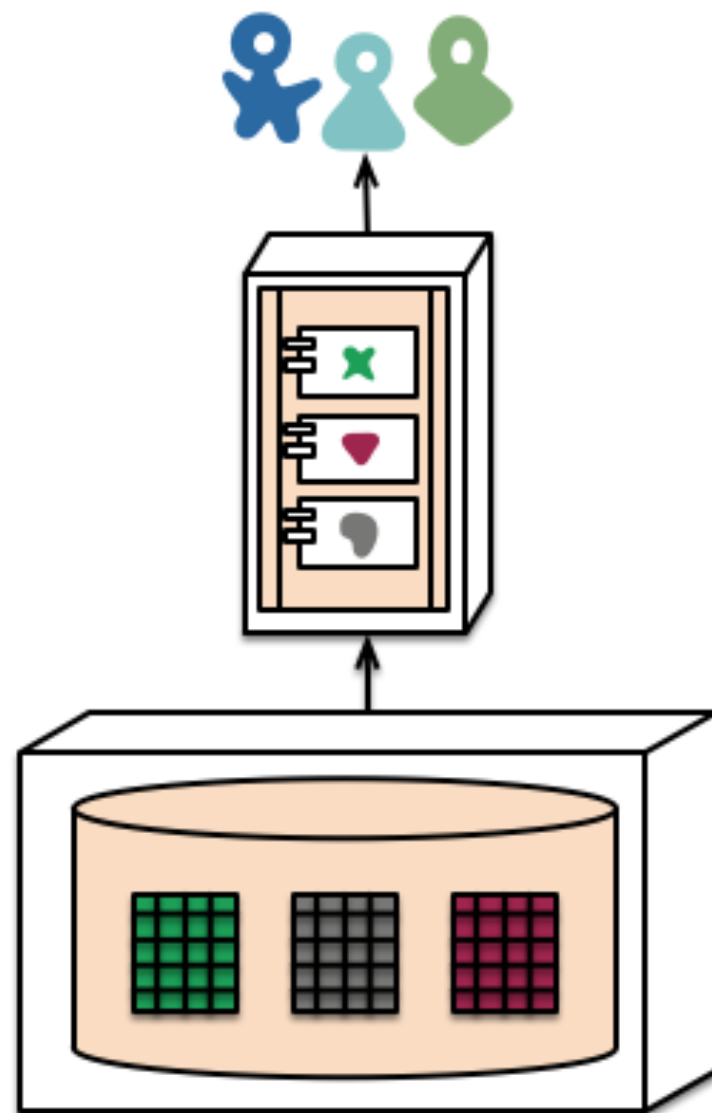- External Thesis: Love them, but won't sign a NDA!

Topic Areas

- 1. Social Media @ IMI

- 2. Supporting Agile Development @ IMI

- 3. Learning Tools @ IMI
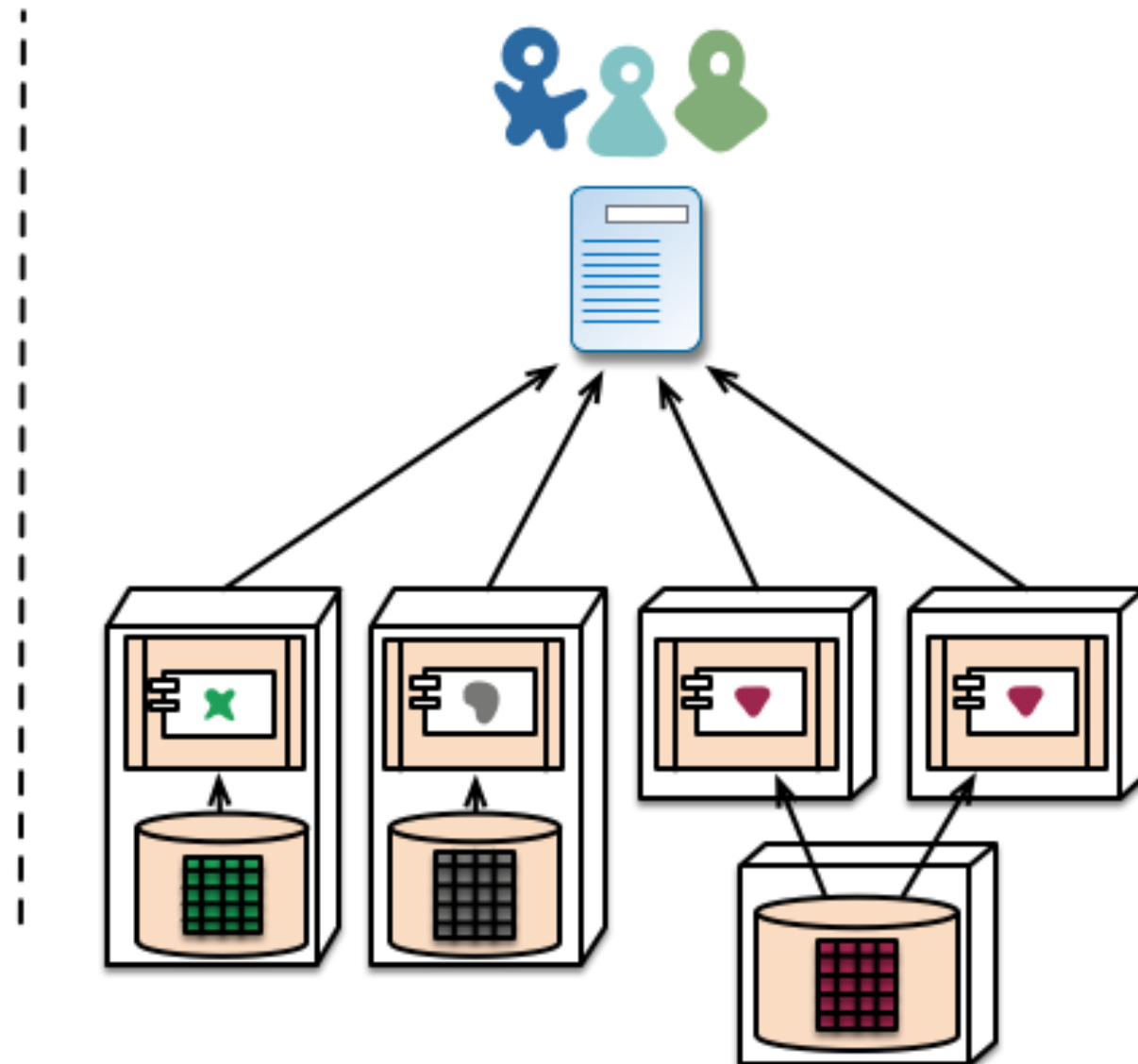
- 4. Improving former Projects

What you should know…

- Basics of Web Development (e.g. Mean-Stack, Rails)

- Agile Development:

  - Working Software, High Quality

  - Working in Iterations, Welcoming Change

  - Practices like Automated Testing, Infrastructure Automation, Refactoring

http://agilemanifesto.org/principles.html

Microservices

monolith - single database

microservices - application databases

http://martinfowler.com/articles/microservices.html

Working on existing projects…

- Working with Legacy Code

- Usability Evaluations: could be own Thesis Topics!

- Potential Architectural/Meta Topics:

  - Backend for Scrum-Tools/other Integration Topics

  - Authentication Concept & Server (Ldap/Oauth)

http://agilemanifesto.org/principles.html

Eat your own dogfood.

1. Social Media @ IMI

- IMI-Dashboard: Identify relevant Information and present it on one page (for different roles)

- (Social Media Platform: Bachelor's Project)

- Further Ideas?

2. Supporting Agile Development @ IMI

- Bacholor/Master Thesis:

  Supporting The Scrum Backlog, Estimation Meetings and

- Bacholor/Master Thesis:

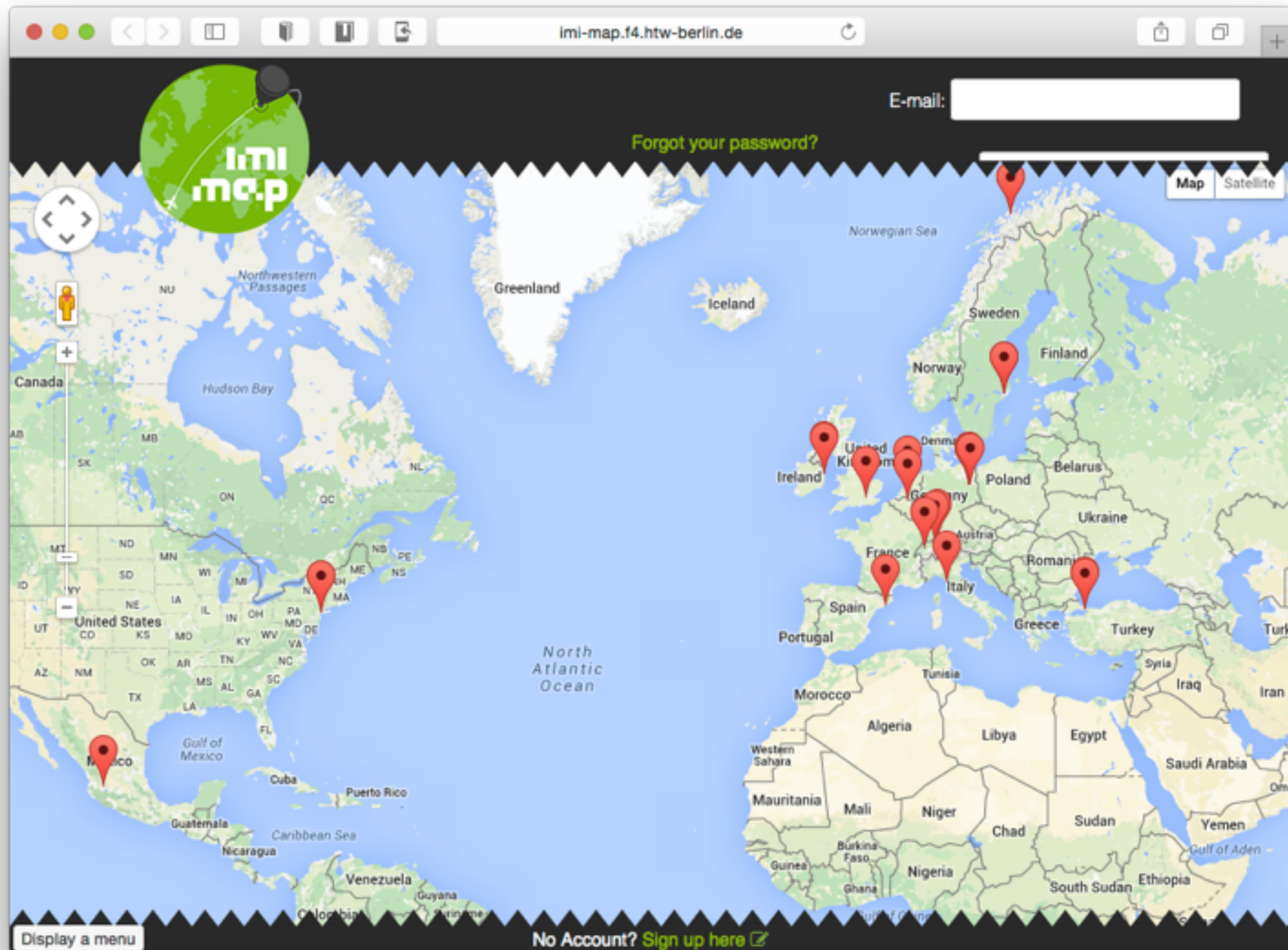 Scrum Board, Daily Standups and Sprint Reviews

3: Learning Tools @ IMI

- Continue Work on:

  - "Grasp"-Development: Q&A Tool

  - Automated Tests for Teaching and Assessment

  - Supporting Personal Learning Networks
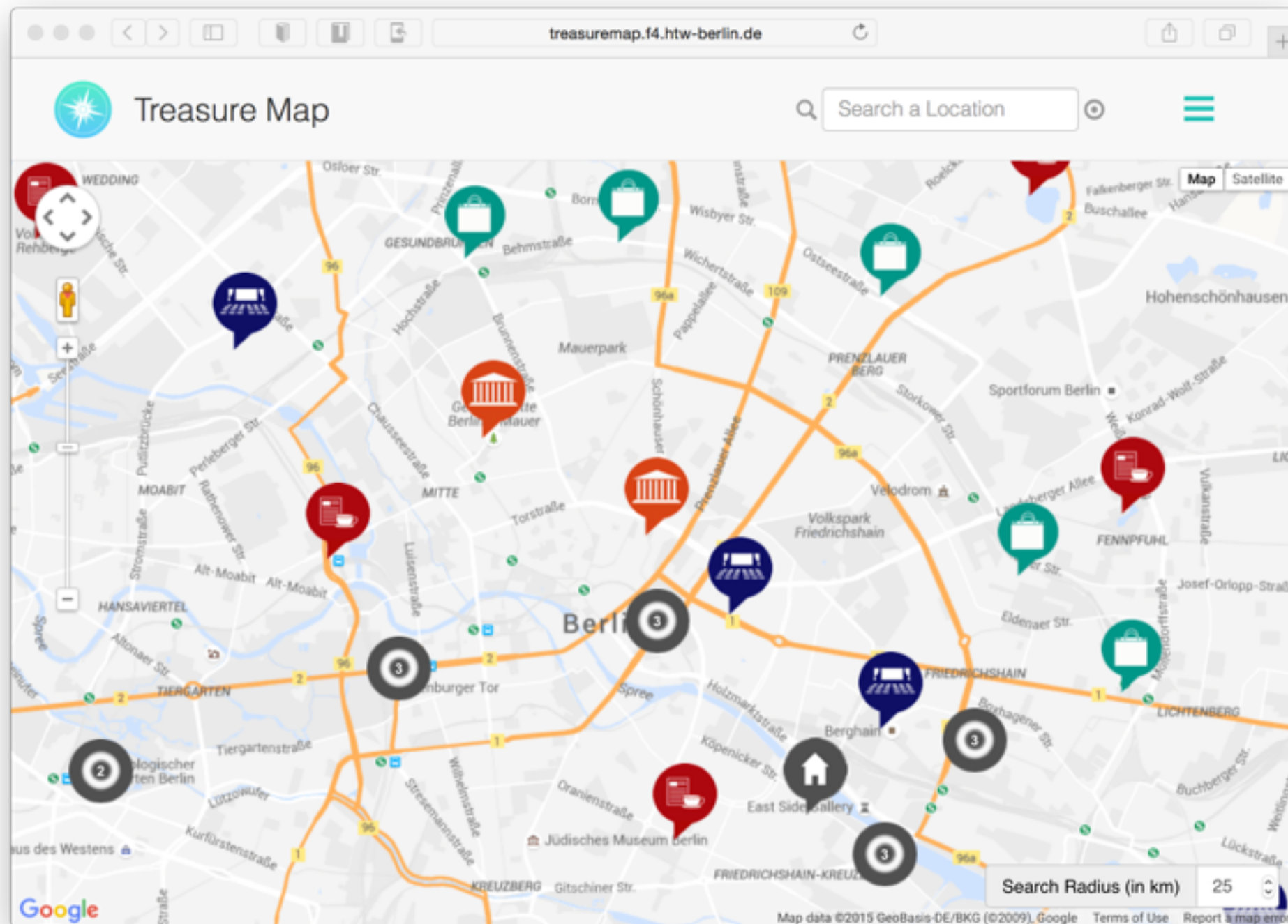
4. Improving former Projects

IMI-Map

http://imi-map.f4.htw-berlin.de

Treasure Map

http://treasuremap.f4.htw-berlin.de

Contact

- bkleinen.github.io/thesis

- Office Hours: (WH-C 645)

- Tue 11:30-12:30 (often changing, check above!)