

# Distributed Data Infrastructures, Fall 2019, Introduction

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# Course topic and goals

- Distributed data infrastructures
- Design and hands-on
- After the course, you:
  - Knows different infrastructures and systems for large-scale data science processing
  - Can compare various infrastructures and their suitability for a particular problem
  - Can select the appropriate tools and environments for a particular problem
  - Can justify the system design choices behind existing data science infrastructures
  - Is able to implement or extend components for processing infrastructures

# Course Organization

- Meetings: Tue 12-14 (D123), Thu 12-14 (D122)
  - Exception: November 19 in Physicum E204
- Article discussions and exercise Q&A
  
- Lecturer: Jussi Kangasharju
- Assistant: Nitinder Mohan

# Passing the Course

- No course exam, only exercises
- **10 essays based on scientific articles (max 2 points each)**
  - 1 point for summary of article
  - 1 point for exceptional additional insights
  - **8 out of 10 must be returned**
- Participation in class discussions (1 point per session)
  - Only if you returned corresponding essay
- **2 projects on different infrastructures (9 points each)**
- Half of maximum points for passing
- All assignments **in bold** are mandatory to return
- All assignment deadlines are strict, no extensions will be given

# Course Timeline

- Week 1: Lecture on Tue and Thu
- Week 2: Return essays 1 (Mon) and 2 (Wed), start of project 1 (Thu)
- Week 3: Return essays 3 (Mon) and 4 (Wed)
- Week 4: Q&A (Tue), return essay 5 (Wed), project 1 deadline (Sun)
- Week 5: Return essays 6 (Mon) and 7 (Wed), start of project 2 (Tue)
- Week 6: Return essays 8 (Mon) and 9 (Wed)
- Week 7: Return essay 10 (Mon), Q&A (Thu) project 2 deadline (Sun)

# Practical Details

- See course page for info
- Announcements and discussion on Moodle
- All returns via Moodle, see link on course page
  
- Office hours/appointments: Via email or ask in person after lectures

Questions?