Requirements 3: Analysis

Claire Le Goues, **Christopher Meiklejohn**

September 17, 2019

Logical conflicts

- When should the train doors be open?
  - The train doors remain closed between stations
  - The train doors remain open during emergencies
  - The train doors remain closed while the train is moving

Terminology conflicts

- Students shall have access to library facilities

- What is a student?
  - A student is enrolled in a course past the drop date
  - A student is enrolled in a degree program
  - An alumnus or alumna should have library access

- How do we reconcile these differences?

Why do conflicts arise?

- Different actors formulate goals
  - Limited borrowing periods (staff)
  - Borrowing for as long as needed (patrons)

- Goal boundaries are vague
  - Doors remain closed between stations
  - Doors open when train stops and evacuation alarm

- Two soft goals prescribe an increase and decrease in the same quantity

Strong versus weak conflicts

- Strong conflicts cannot be reconciled
  - Retain credit card data for easier future transactions
  - **Do not retain** credit card data after completing a transaction

- Weak conflicts can be reconciled
  - The train doors remain closed between stations
  - The train doors remain open during emergencies
  - The train doors remain closed while the train is moving