Summary

- Answer set programming
- Reasoning about action and change
- Reasoning about action and change and answer set programming
- Static causal laws
- Sensing actions
- Conditional and conformant planning
- Narratives
- Diagnosis and diagnostic planning
- Complex action theories

Concepts

- Logic programming and answer set semantics (definition, computing)
- Application in problem solving
- State (different types of theories mean different notion of states)
- How is the transition function defined? (for various types of action theories)
- Plan (conformant and conditional plan)
- Query

Skills

- Knowledge representation: formalization of a problem as a logic program, a system as an action theory, etc.

- Given a logic program, capable of computing an answer sets (when none is available, proof it)

- Given an action theory (various type), capable of computing the next state of the world?