

## Lecture 2 Outline

### September 23, 2016

**Reading:** *text*, §2

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1. Greetings and felicitations!
2. Access Control Matrix
  - a. Subjects, objects, and rights
  - b. Primitive commands
  - c. Commands and conditions: create-file, various flavors of grant-right to show conditions and nested commands
3. Decidability of security
  - a. Notion of leakage in terms of ACM
  - b. Determining security of a generic system with generic rights and mono-operational commands is decidable
  - c. Determining security of a generic system with generic rights is undecidable (HRU result)
  - d. Meaning: can't derive a generic algorithm; must look at (sets of) individual case