Outline

- Instruction set architecture
 - RISC vs. CISC
 - MIPS/ARM/x86
- Instructions:
 - Arithmetic instruction: add, sub, ...
 - Data transfer instruction: lw, sw, lh, sh, ...
 - Logical instruction: and, or, ...
 - Conditional branch beq, bne, ...
- Basic concepts:
 - Operands: register vs. memory vs. immediate
 - Numeric representation: signed, unsigned, sign extension
 - Instruction format: R-format vs. I-format