

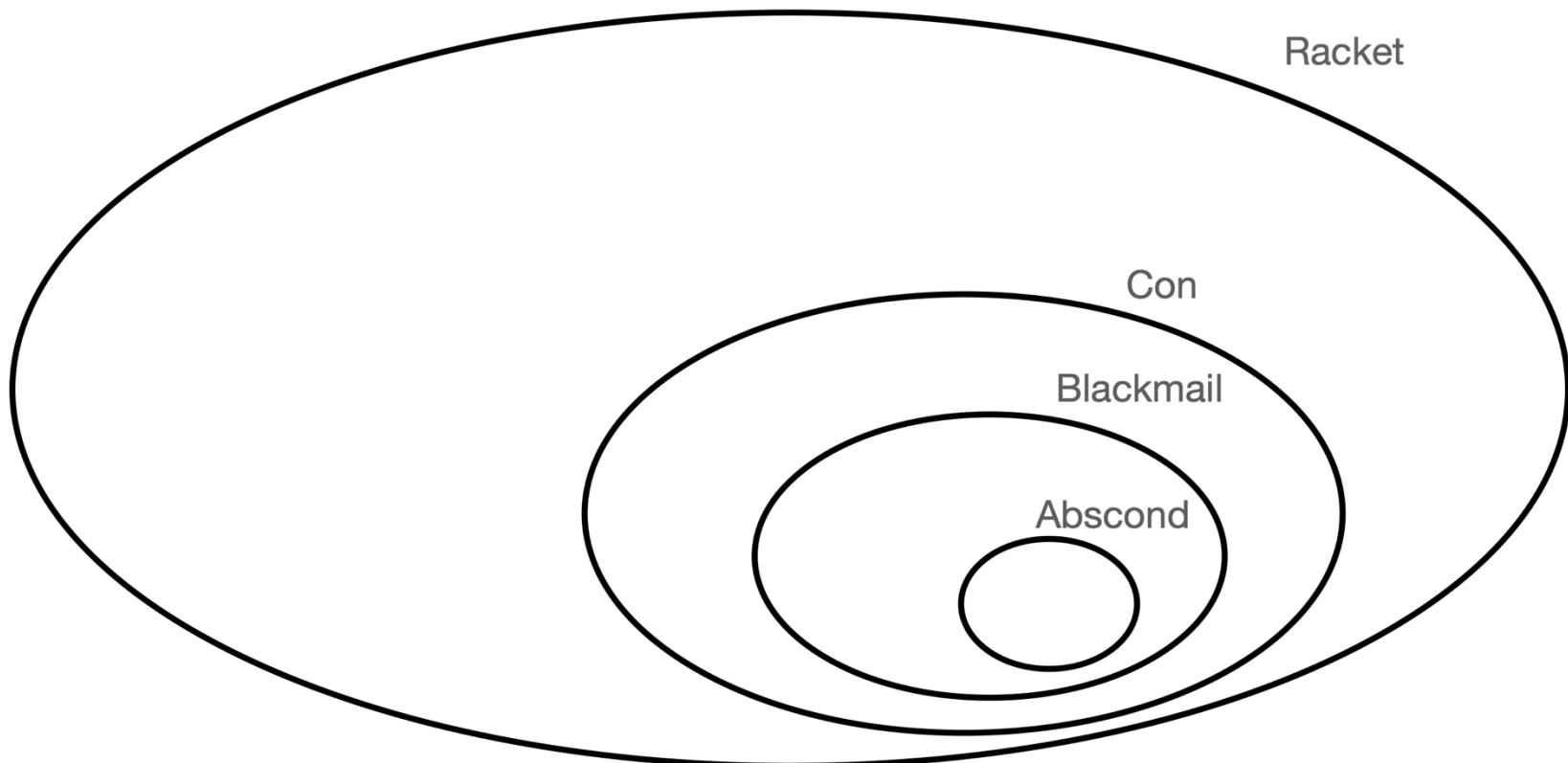
# CMSC 430: Introduction to Compilers

---

abscond

# Language Subsets

---



# Abscond Compiler

---

- ▶ Reader : Input → S-Expr
- ▶ Parser: S-Expr → Expr
- ▶ **Compiler: Expr → a86**
- ▶ Assembler: a86 → Object
- ▶ Linker: Object → Executable
- ▶ Runtime system: C code linked together w/ program object code

# abscond

---

- ▶ Simple programming language. The only kind of expression in Abscond are integer literals. Running an abscond program just produces that integer.
- ▶ Grammar:  $e ::= \text{integer}$
- ▶ AST:  $e ::= (\text{Lit } i)$   
 $i ::= \text{integer}$
- ▶ Operational Semantics:

---

**A $\llbracket(\text{Lit } i), i\rrbracket$**

# Abscond: components

---

