



Compilers

Java

- Java: COOL ^{+ more} on steroids

– History

- Arrays
- Exceptions
- Interfaces
- Coercions
- Threads
- Dynamic Loading & Initialization
- Summary

- Began as Oak at SUN
 - Originally targeted at set-top devices
 - Initial development took several years (`91-`94)
- Retargeted as the Internet language (`94-95)
 - Every new language needs a “killer app”
 - Alternatives such as TCL, Python



- Modula-3
 - types
- Eiffel, Objective C, C++
 - Object orientation, interfaces
- Lisp
 - Java's dynamic flavor (lots of features)

- From our perspective, COOL plus
 - Exceptions
 - Interfaces
 - Threads
 - Dynamic Loading
 - Other less important ones . . .
- Java is a BIG language
 - Lots of features
 - Lots of feature interactions