

# Movable Code



# Agenda

- Varieties
- Applications
- Why



# Varieties

- Java
- Classloaders
  - Under exploited
  - Under maintained



# Varieties

- Lisp
  - Code is just data
  - Move your “data” anywhere
  - Eval()
  - All those ()'s....



# Varieties

- Javascript
  - Code is data
  - Getting faster
  - Some neat features - under developed
  - Mostly stuck in the browser...for now



# Applications

- Grids
  - Who wants manual management?



# Applications

- Concurrent processing
- Similar model to grid
  - Code the same “shape”
    - Not “shipped” across machines



# Applications

- The Web
  - Duh!
  - Sophisticated client behaviours with limited prior knowledge



# Applications

- SOA
  - Distributed Services
  - Who wants to manage stubs?



# Why?

- Late binding
  - Transport details
  - Security credentials
  - Implementation



# Why?

- Minimal client knowledge
  - Need a “hook”
    - At most an interface



# Why?

- Distribution of code becomes easier
- No one likes stubs
- Worst case:
  - Bundle it up
  - Put it somewhere
  - Platform does the rest



# Why?

- A step towards dynamic upgrades
- Still plenty to think about
  - Lifecycles
    - Threads or messages etc



# Conclusion

- Powerful
  - Leverage



# Conclusion

- Fly in the ointment
  - Difficult to understand/predict
  - Versioning becomes important
    - Very quickly exceeds human ability to reason



# Q & A