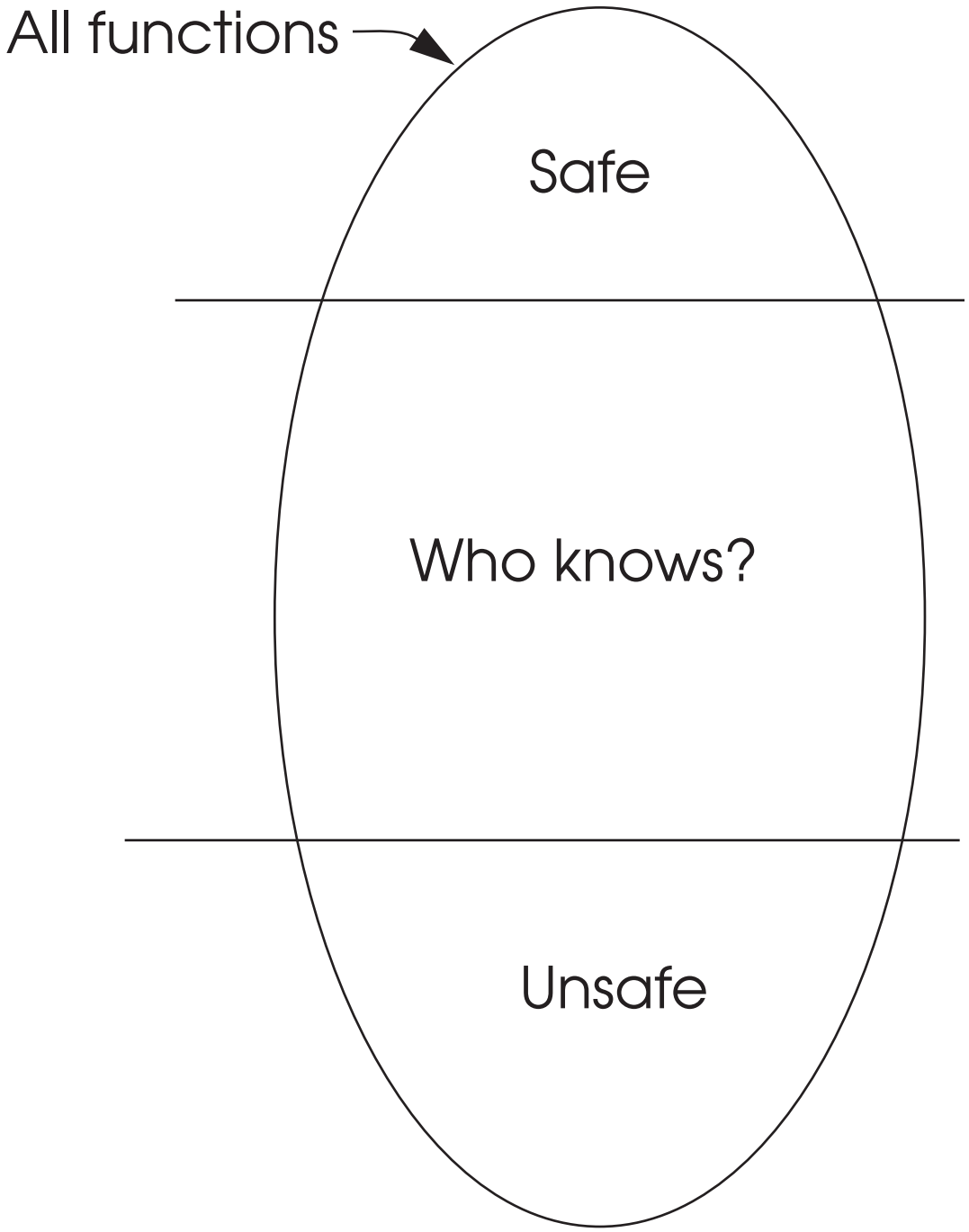
*1. Back in the 1970's the security community came to the consensus that achieving security at the programming language level wouldn't work, because the trusted computing base that would be required is too large. What has changed?*

# Java TCB includes:

- bytecode verifier
- bytecode loader
- bytecode interpreter
- Java I/O package
- Java garbage collector, memory allocator, and thread package:
- java window package
- authenticity of the verifier, interpreter, loader, and java runtime
- Java language design
- IEEE 754/854 (floating point) spec
- Java bytecode language design
- name space separator
- all (some?) locally-stored sources
- class name search algorithm
- network access path (to "only hosts from which code was imported")
- firewall control

*2. The psychology surrounding sandbox design guarantees that it will never work in practice.*


All functions
Safe
Who knows?
Unsafe