

~~COMMENTARY~~

OPERATING
SYSTEMS
REVIEW

VOL. 14

5

SPECIAL ISSUE: PROCEEDINGS OF THE
SEVENTH SYMPOSIUM ON
OPERATING SYSTEM
PRINCIPLES

10-12 DEC. 1979

ASILOMAR, CA

ACM

SPECIAL INTEREST GROUP ON OPERATING SYSTEMS
(SIGOPS)

~~DISTRIBUTED~~
~~OPERATING~~
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~~D~~

PATTERN FOR DIST. SYSTEM CASE STUDY PAPERS:

- ① Say: Distributed \equiv Good
- ② Notice: wires \rightarrow messages
- ③ IDEA: POST FACTO WIRES
 \downarrow
use messages
everywhere
- ④ Resolve 99 details of
message semantics

If implementation is up before paper
deadline:

- ⑤ Express astonishment about
path length to send a message

3

If there are idle cycles
about, someone will covet them.

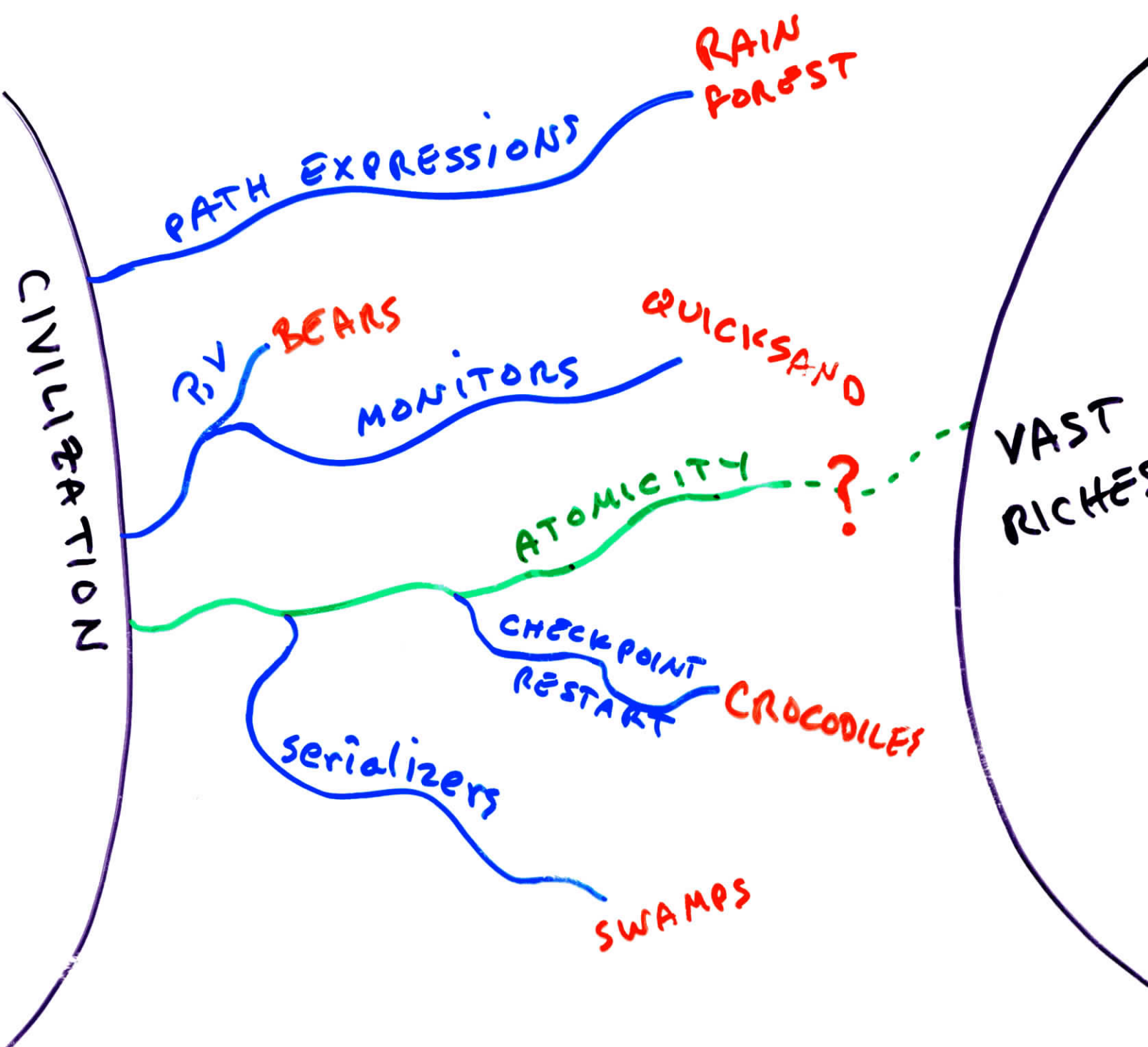
NEW HAZARD: ROBUSTNESS

↓
unplanned
total
dependence

If service-available use service

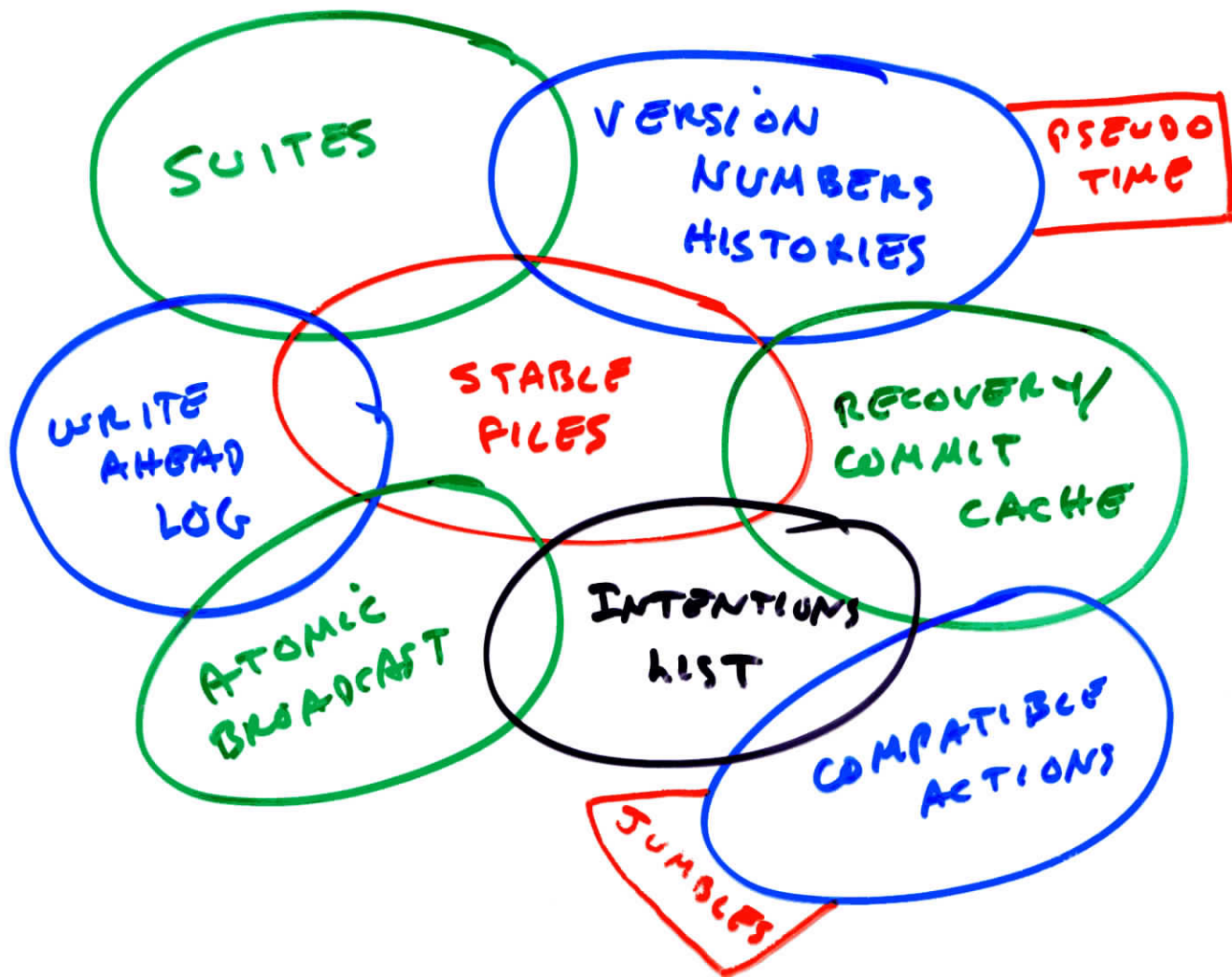
else do-it-yourself

↓
law: little-used functions
become flaky



THE RECOVERY AND COORDINATION JUNGLE

LOTS OF
NOT-QUITE-ORTHOGONAL
ABSTRACTIONS



(RESEMBLES QUANTUM CHROMO-
DYNAMICS)

HEADLINES WE HAVEN'T SEEN YET

AIR FORCE LOGISTICS SYSTEM

UP SIX MONTHS EARLY

WWMCCS NETWORK 5% UNDER BUDGET

SECURITY PACIFIC BANK FOILS

45th COMPUTERIZED ROBBERY TRY

AIR LINE CONTROLLERS PRAISE

ARTC COMPUTER SYSTEM
