Four introductory points about OS

Peter J. Denning

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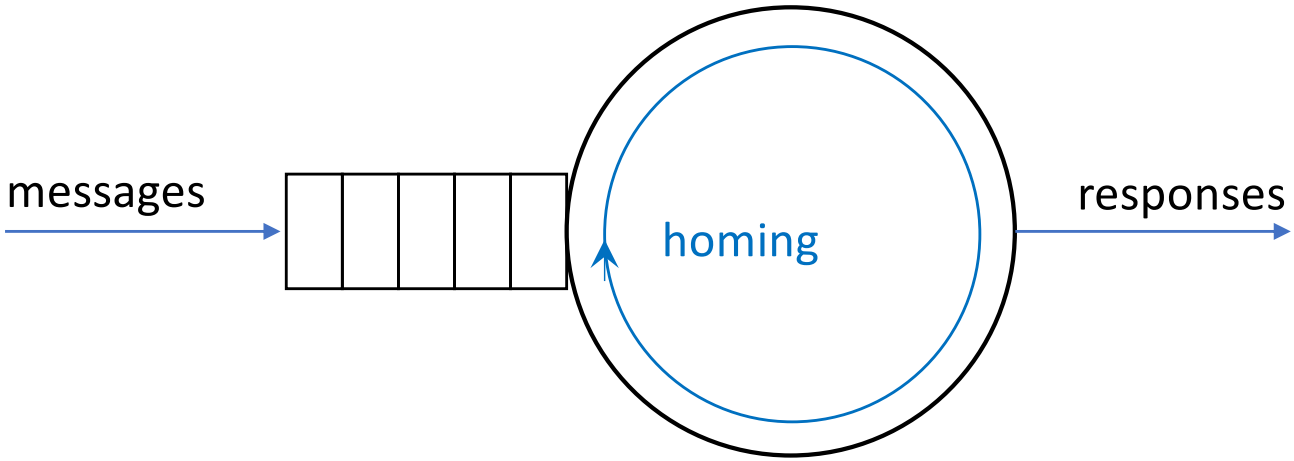
1

OS is a society of processes
rendering services
interacting by messages

OS is a library of programs
supervisor
interacting by call-return

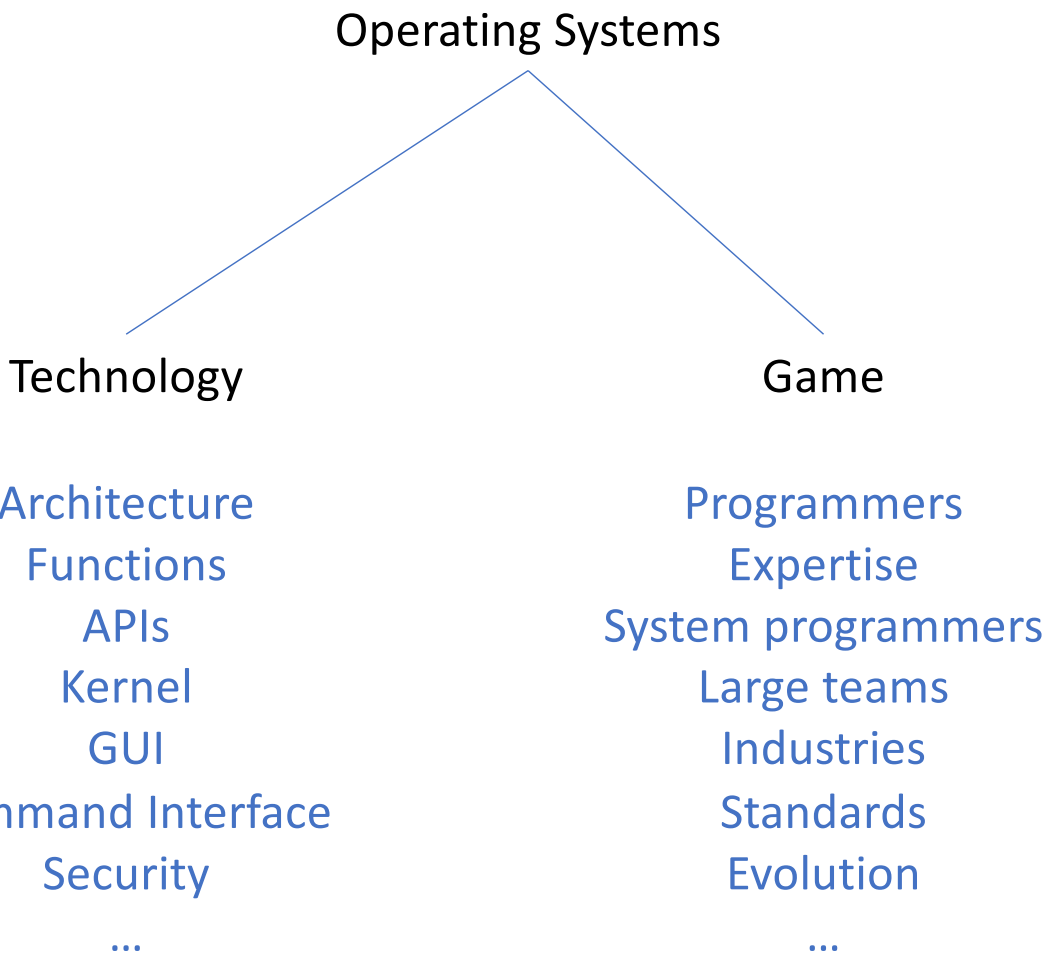
What is a process?

TERMINATING

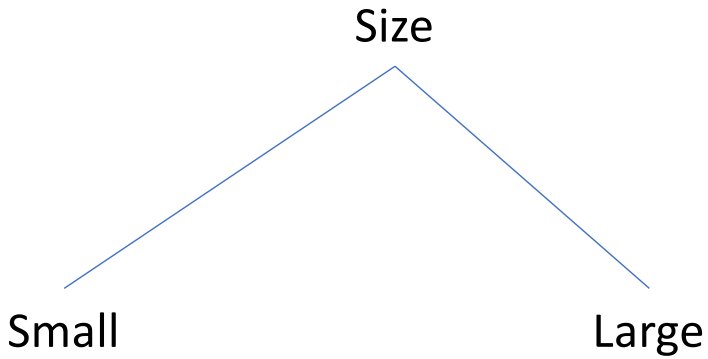


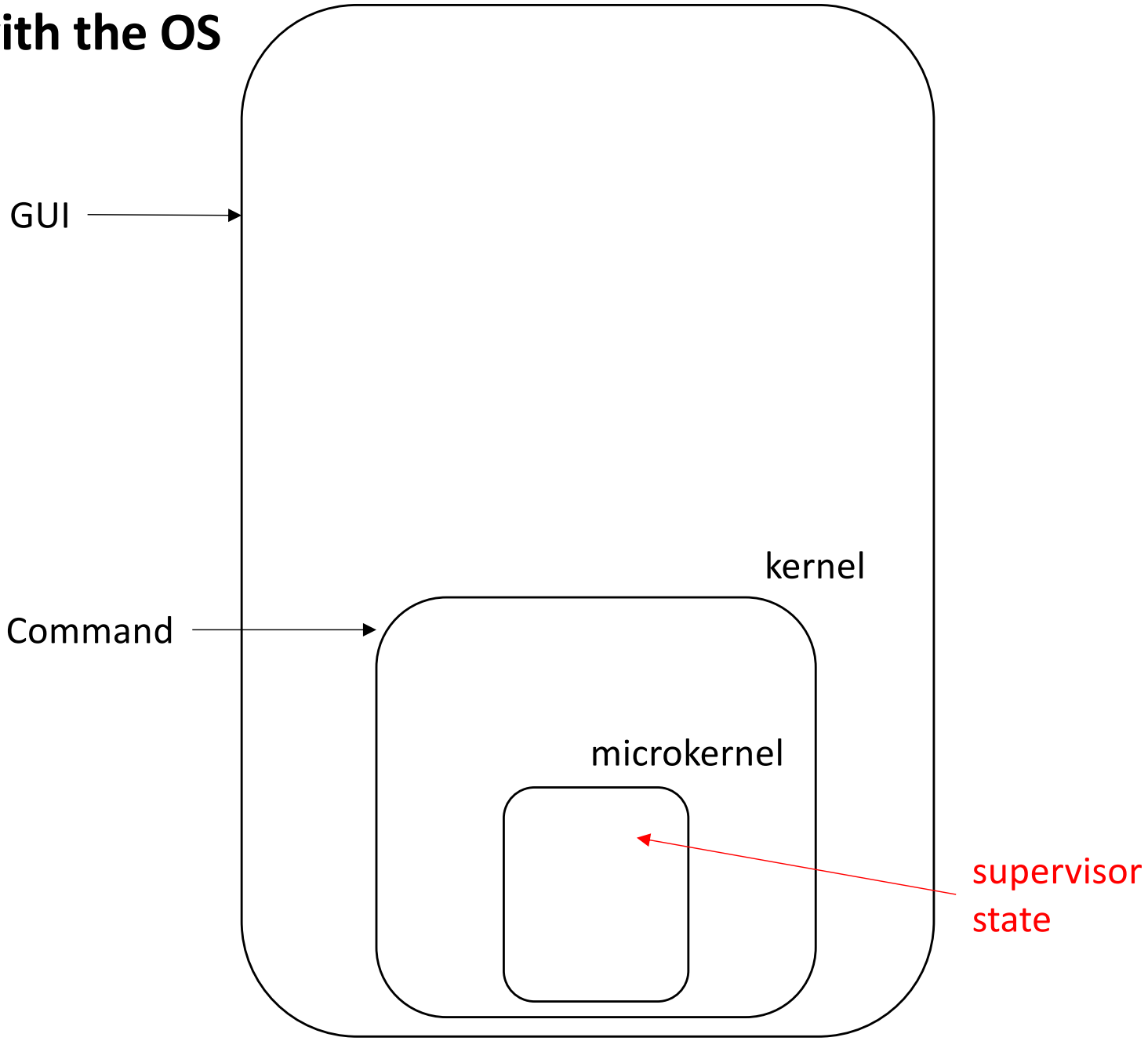
NON-TERMINATING

2


Operating Systems
Technology
Game
Architecture
Functions
APIs
Kernel
GUI
Command Interface
Security
…
Programmers
Expertise
System programmers
Large teams
Industries
Standards
Evolution
…

3



Small	Large
1-2 programmers	10,000 programmers
< 10^4 lines code	10^7 to 10^8 lines code
Input-output view	Processes
Supervisor	Society of processes
Libraries	Reliability
Steps and storage	System performance

4 Talking with the OS