POSIX – standardizes scripting interfaces – based upon Korn Shell

What a shell does: Reads/writes input, evaluate chars, pipes, regulate signals, setup programs, customizes the computing environment

System Startup: init: stdin, stdout, stderr -> /bin/bash

Command types: Alias, Keywords, Functions, Built-in commands, Executable programs

System Calls: Access to the kernel, often done in the background -> process creation is easy

Fork – start new process, wait – sleep parent process, exec – execute program, exit – exit and clean

Ps – process status, pstree – display the tree of processes, kill – kill a process, nice – change process priority, raise – signal a process, top – show process cpu usage, uptime – how long system been running

Variables: Environment – passed down to child, Local – stay within shell, commands: env – list vars­

Redirection and pipes: >file