Component-Based Development
DIKU — Software Development

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Do one thing well

Takeaway 2/2

Use a universal interface

Agenda

Coming soon..

Software Distribution

The delivery of pre-configured software to end-users.

A lot of software comes with a "package manager":

- Linux Distributions
  - Debian, Ubuntu, Gentoo, Arch Linux, Alpine, . . .
- Programming Environments
  - Eclipse, Visual Studio, . . .
  - Python, Go, Haskell Platform, . . .

A lot of operating systems come with an "app store":

- iOS, Android, Windows 10 Mobile, . . .

Software Distribution Strategies

- Source-code form.
  - Portage on Gentoo.
- Object or executable form.
  - Aptitude on Ubuntu.

Reading Material

Coming soon..

► Charles W. Krueger. *Software reuse*. ACM Comput. Surv. 24(2), pp. 131–183. ACM, 1992.

► John Hughes. *Why functional programming matters*. The computer journal 32(2), pp. 98–107. Oxford University Press, 1989.

Video Material

Coming soon..

- *UNIX: Making Computers Easier To Use* — AT&T Archives film from 1982, Bell Laboratories. `https://youtu.be/XvDZLjaCJuw`.

- Erlang Factroy SF 2016 — Keynote — John Hughes — *Why Functional Programming Matters*. `https://youtu.be/Z35Tt87pIpg`.