

designing **function**

Daniel Jackson

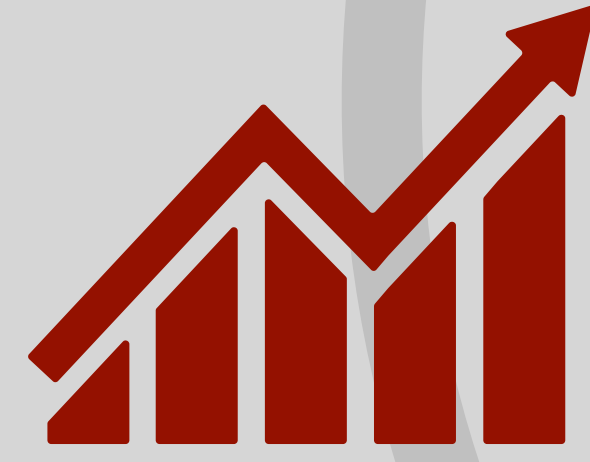


UX designers

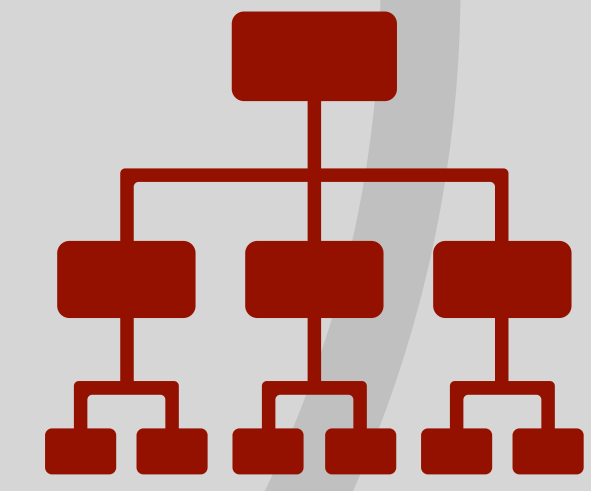


engineer/programmer

**designing
function**
what software does



product managers



software architect



visual designers

No Silver Bullet

Essence and Accidents of Software Engineering

Frederick P. Brooks, Jr.

University of North Carolina at Chapel Hill

“The hardest single part of building a software system is deciding precisely what to build.”



Thomas Dohmke
CEO of GitHub

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Developers, Reinvented



The future belongs to developers who can model systems, anticipate edge cases, and translate ambiguity into structure—skills that AI can't automate. We need to teach abstraction, decomposition, and specification not just as pre-coding steps, but as the **new coding**.

a surprise



When you go to design a house you talk to an architect first, not an engineer. Why is this?

Because the criteria for what makes a good building fall outside the domain of engineering.

Similarly, in computer programs, the selection of the various components must be driven by the conditions of use.

How is this to be done? **By software designers.**

Mitchell Kapor, *A Software Design Manifesto* (1996)