Origins

Definition

Software Engineering: The establishment and use of sound engineering principles in order to obtain economically software that is reliable and works efficiently on real machines.

   o [from the first NATO Software Engineering Conference, 1969]

The Software Crisis

- Over-budget

- Late

- Poor quality

- Customers and users not happy

- Projects difficult to manage

- Code hard to maintain

What Makes Software So Hard?

- One word:

Complexity