

“Quicksort and Randomized Quicksort”

□ Topics and Readings

- ❖ Quicksort and Randomized Quicksort
- ❖ BREAK
- ❖ M2 Feedback
- ❖ About CS UnPlugged Activity

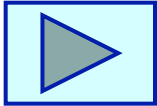
*Quicksort is FAST &
Randomized Quicksort is Cool.*

“Quicksort and Randomized Quicksort”

□ Topics and Readings

❖ Project Update, Project Presentation tomorrow

❖ Quicksort and Randomized Quicksort



*Quicksort is FAST
&
Randomized Quicksort is Cool.*

Antony Hoare (1934 –)



Invented Quicksort (at age 26)

Developed Hoare's Logic (for program correctness)

Developed CSP (including dining philosophers' problem)

Quote: (about difficulties of creating software systems)

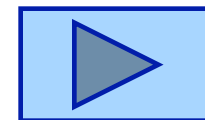
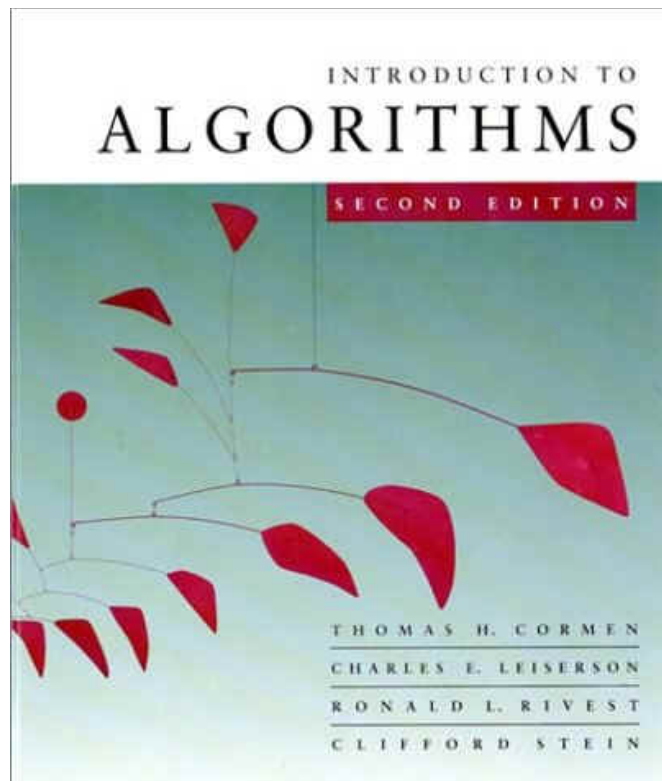
"There are two ways of constructing a software design:
One way is to make it so simple that there are obviously
no deficiencies, and the other way is to make it so
complicated that there are no obvious deficiencies.
The first method is far more difficult."



Tony Hoare, Singapore 2008 Computing in the 21st Century

- **Turing Award, 1980**
- **Knighted, 2000**

[CLRS]...



**Sabbatical leave at NUS
Computer Science Dept 1995/96**

[CLRS] & Charles Leiserson.

Thank you.

Q & A



School of Computing