Less Code = More Software

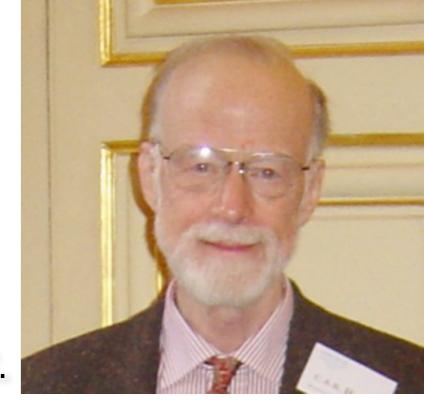The above quote is stolen from Kevlin Henney

COMPLEXITY

- Complexity is one of the biggest problems with software if not THE biggest.

- It is much easier to create a complicated "solution" than to really solve a problem.

- Much software complexity is accidental not inherent to the problem solved.

- It starts in the small, one statement at a time.

SIMPLICITY

- Architects and developers need to value Simplicity!

  - Good Abstractions are the key, as are

  - Managing Dependencies

- Software needs to be simpler to solve more complex problems.

- Simple software requires work and skill but pays off in the long run.

Famous Quotes by Sir C.A.R.(Tony) Hoare

- Inside every large program,
  there is a small program trying to get out.

- 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.

Decremental Development

- Refactor code down to 10 % of its original size

  - not by 10% but by an order of magnitude

  - keeping (needed) functionality

  - improve the quality and internal design

- I have seen systems where that would have been easy, but brave…