

The logo of the University of Kent is centered on the page. It features the words "University of" in a smaller, blue, sans-serif font, positioned above the word "Kent" in a larger, bold, blue, serif font. The text is set against a light gray rectangular background.

University of
Kent

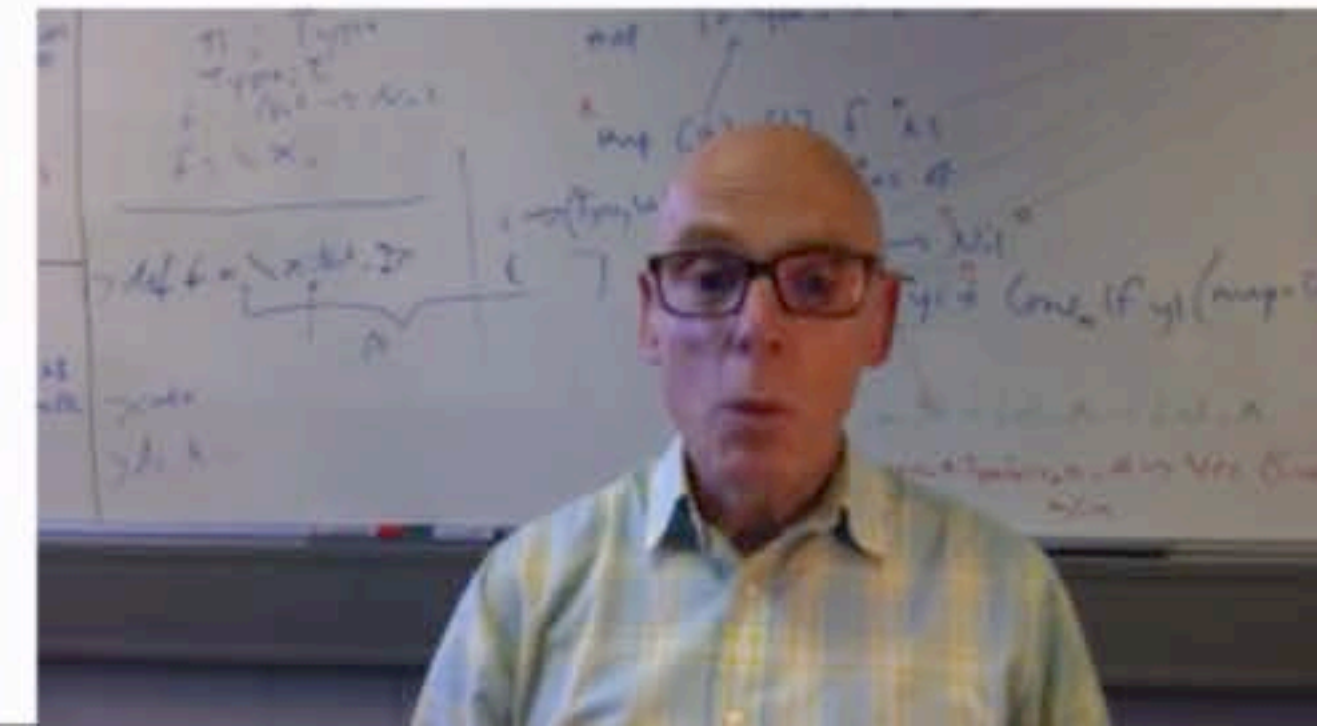
Trust systems

Message-passing concurrency

Different concurrent processes "share nothing" ...

... and only communicate by passing messages.

No worries about shared state, thread safety, ...



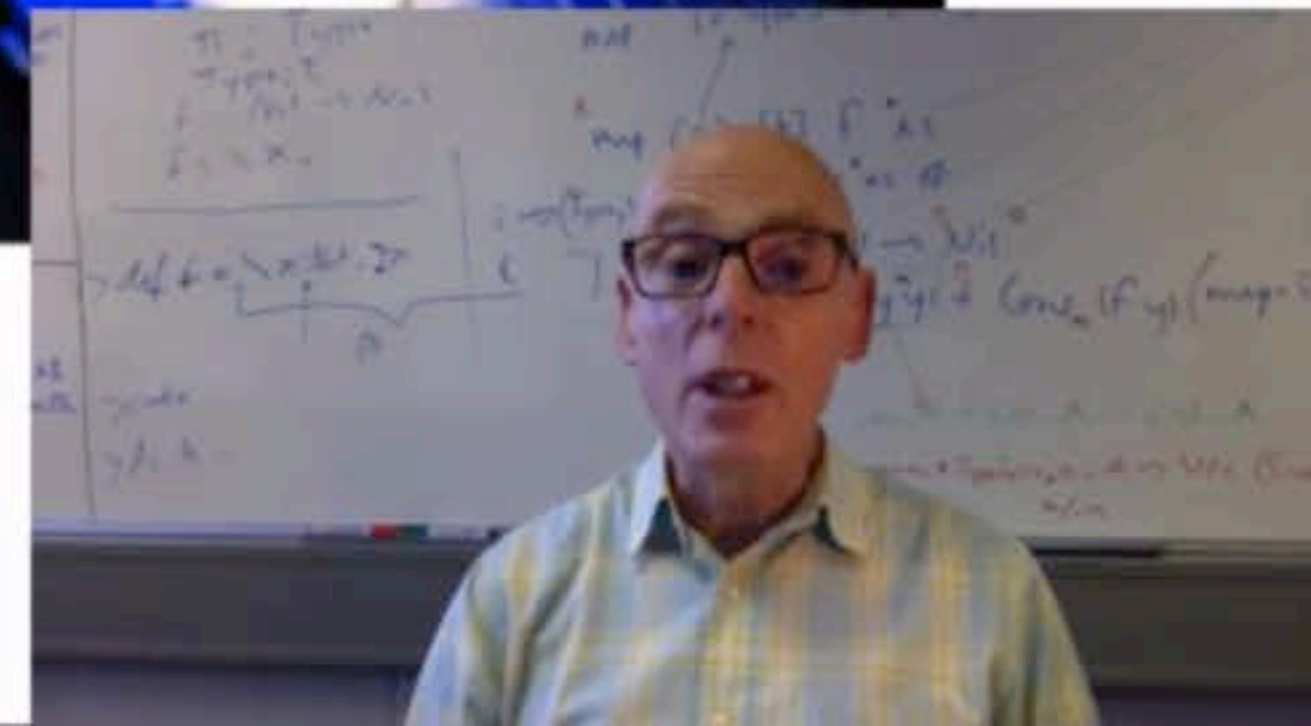
What could go wrong?

Software error

Data mismatch

Network partition

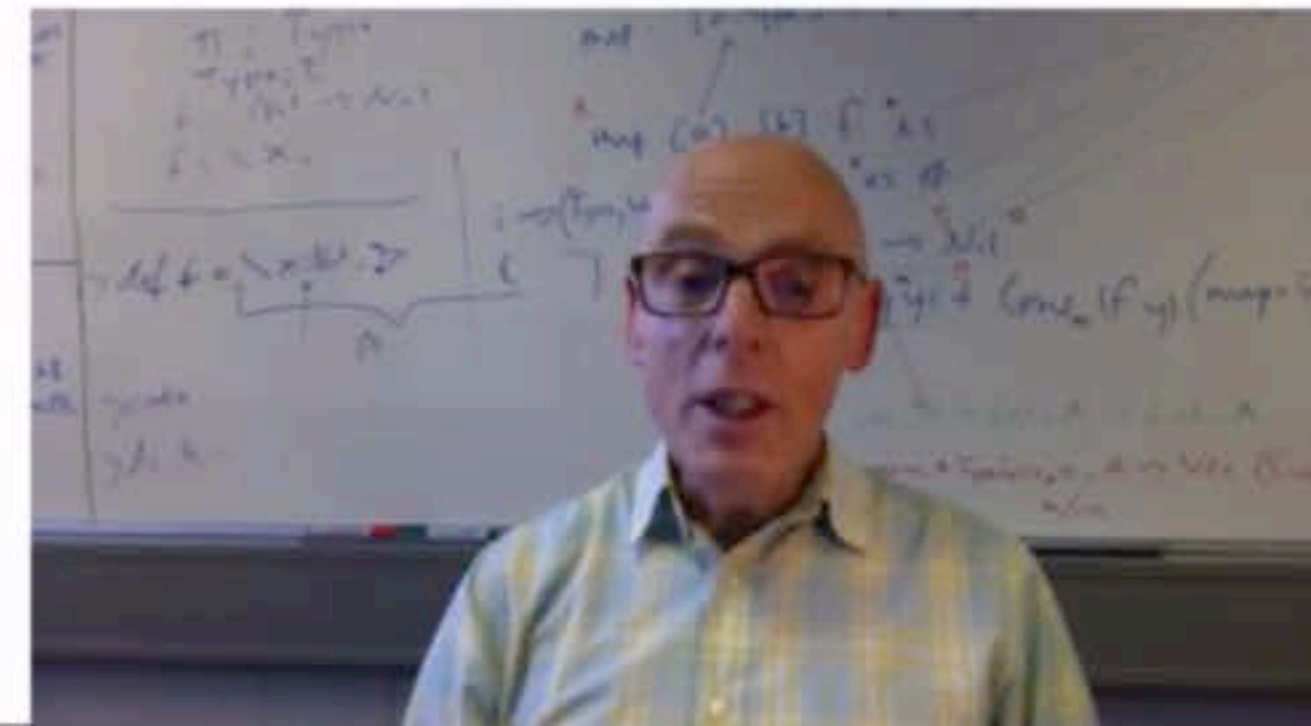
Hardware failure



Let it fail!

We can't avoid parts of a system failing, ...
... so we must handle failure somehow.

Let it fail! is the key design principle ...
... simplifies how to deal with all kinds of errors
... by separating concerns.



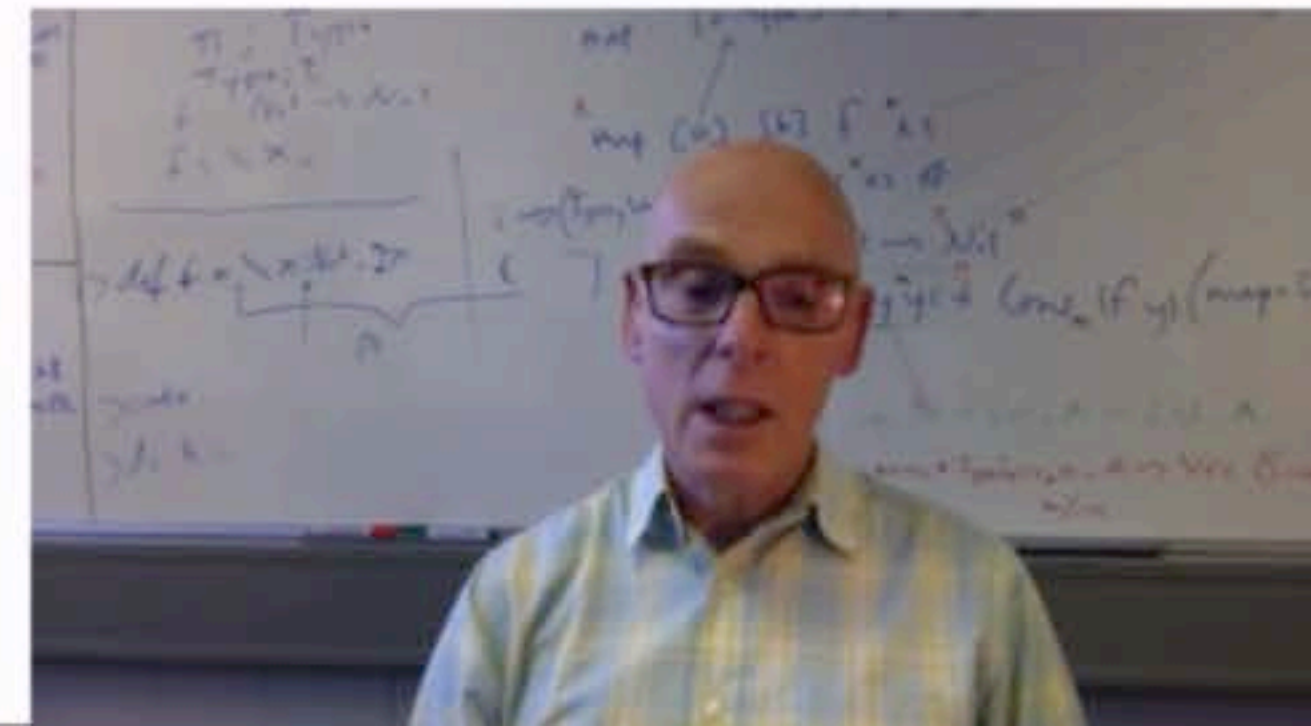
A beautiful design

Mailboxes and message handling

Process errors and trapping exits

OTP generics

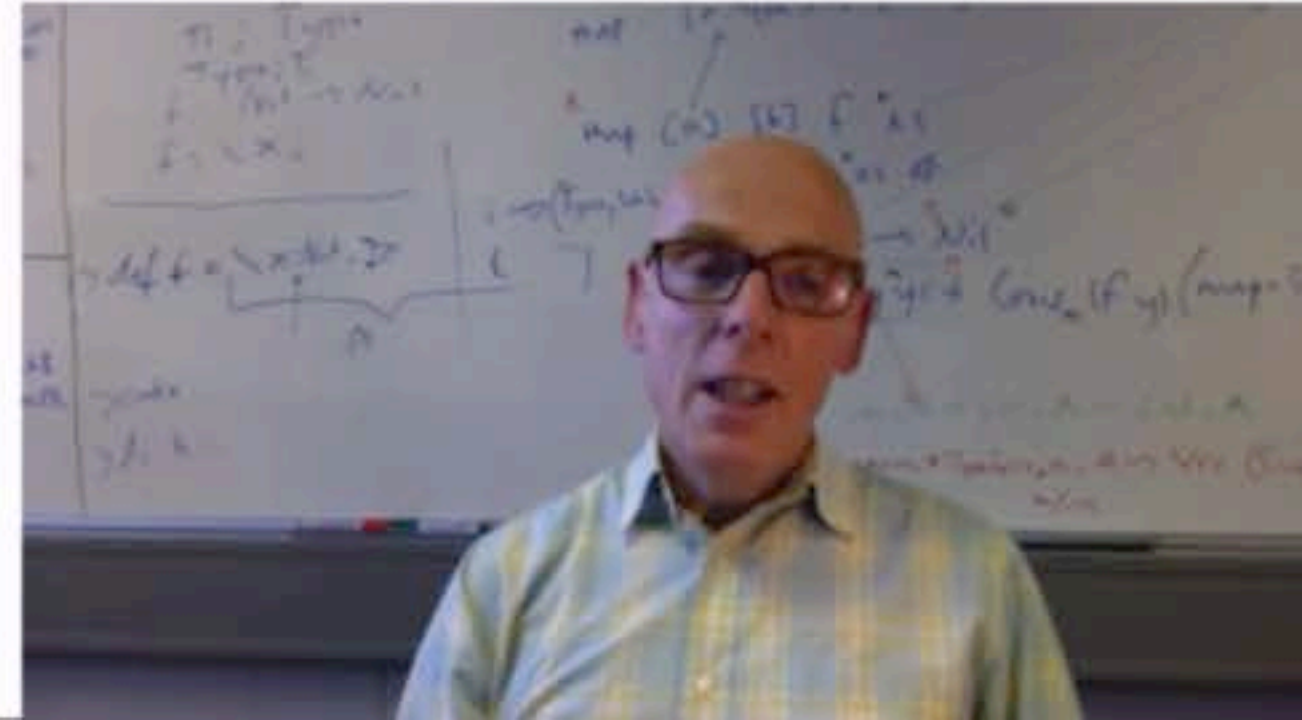
Concurrency and distribution



Exceptionally ...

Erlang does have an exception handling mechanism too.

We'll cover this briefly ... it's nothing exceptional :-)



Fixing problems

Can't shut down just to install a software upgrade.

Erlang allows hot code loading into a live system.

